

Apache NiFi Registry REST API

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1. Overview

The REST API provides an interface to a registry with operations for saving, versioning, reading NiFi flows and components.

1.1. Version information

Version : 1.15.0

1.2. Contact information

Contact : Apache NiFi Registry Contact Email: dev@nifi.apache.org

1.3. License information

License : Apache 2.0 License License URL : <https://www.apache.org/licenses/LICENSE-2.0.html> Terms of service :
As described in the license

1.4. URI scheme

BasePath : /nifi-registry-api Schemes : HTTP, HTTPS

1.5. Tags

- access : Endpoints for obtaining an access token or checking access status.
- bucket bundles : Create extension bundles scoped to an existing bucket in the registry.
- bucket flows : Create flows scoped to an existing bucket in the registry.
- buckets : Create named buckets in the registry to store NiFi objects such flows and extensions. Search for and retrieve existing buckets.
- bundles : Gets metadata about extension bundles and their versions.
- config : Retrieves the configuration for this NiFi Registry.
- extension repository : Interact with extension bundles via the hierarchy of bucket/group/artifact/version.
- extensions : Find and retrieve extensions.
- flows : Gets metadata about flows.
- items : Retrieve items across all buckets for which the user is authorized.
- policies : Endpoint for managing access policies.
- tenants : Endpoint for managing users and user groups.

2. Security

2.1. Authorization

Type : apiKeyName : AuthorizationIn : HEADER

2.2. BasicAuth

HTTP Basic Auth

Type : basic

3. Resources

3.1. Access

Endpoints for obtaining an access token or checking access status.

3.1.1. Get access status

```
GET /access
```

Description

Returns the current client's authenticated identity and permissions to top-level resources

Responses

HTTP Code	Description	Schema
200	successful operation	4.19. CurrentUser on page 241
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid. The NiFi Registry might be running unsecured.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/access
```

Example HTTP response

```

{
  "identity" : "string",
  "anonymous" : true,
  "loginSupported" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  },
  "oidcloginSupported" : true
}

```

3.1.2. Performs a logout for other providers that have been issued a JWT.

```
DELETE /access/logout
```

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Responses

HTTP Code	Description	Schema
200	User was logged out successfully.	No Content
401	Authentication token provided was empty or not in the correct JWT format.	No Content
500	Client failed to log out.	No Content

Consumes

- /

Produces

- /

Example HTTP request

```
/access/logout
```

3.1.3. Redirect/callback URI for processing the result of the OpenId Connect login sequence.

```
GET /access/oidc/callback
```

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Responses

HTTP Code	Description	Schema
default	successful operation	No Content

Consumes

- /

Produces

- /

Example HTTP request

```
/access/oidc/callback
```

3.1.4. Retrieves a JWT following a successful login sequence using the configured OpenId Connect provider.

```
POST /access/oidc/exchange
```

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Responses

HTTP Code	Description	Schema
200	successful operation	string

Consumes

- /

Produces

- text/plain

Example HTTP request

```
/access/oidc/exchange
```

Example HTTP response

```
"string"
```

3.1.5. Performs a logout in the OpenId Provider.

```
DELETE /access/oidc/logout
```

Description

Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Responses

HTTP Code	Description	Schema
default	successful operation	No Content

Consumes

- /

Produces

- /

Example HTTP request

```
/access/oidc/logout
```

3.1.6. Initiates a request to authenticate through the configured OpenId Connect provider.

```
GET /access/oidc/request
```

Description

Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Responses

HTTP Code	Description	Schema
default	successful operation	No Content

Consumes

- /

Produces

- /

Example HTTP request

```
/access/oidc/request
```

3.1.7. Create token trying all providers

```
POST /access/token
```

Description

Creates a token for accessing the REST API via auto-detected method of verifying client identity claim credentials. The token returned is formatted as a JSON Web Token (JWT). The token is base64 encoded and comprised of three parts. The header, the body, and the signature. The expiration of the token is contained within the body. The token can be used in the Authorization header in the format 'Authorization: Bearer <token>'.

Responses

HTTP Code	Description	Schema
200	successful operation	string
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid. The NiFi Registry may not be configured to support login with username/password.	No Content
500	NiFi Registry was unable to complete the request because an unexpected error occurred.	No Content

Consumes

- /

Produces

- text/plain

Example HTTP request

```
/access/token
```

Example HTTP response

```
"string"
```

3.1.8. Create token using identity provider

```
POST /access/token/identity-provider
```

Description

Creates a token for accessing the REST API via a custom identity provider. The user credentials must be passed in a format understood by the custom identity provider, e.g., a third-party auth token in an HTTP header. The exact format of the user credentials expected by the custom identity provider can be discovered by 'GET /access/token/identity-provider/usage'. The token returned is formatted as a JSON Web Token (JWT). The token is base64 encoded and comprised of three parts. The header, the body, and the signature. The expiration of the token is contained within the body. The token can be used in the Authorization header in the format 'Authorization: Bearer <token>'.

Responses

HTTP Code	Description	Schema
200	successful operation	string
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid. The NiFi Registry may not be configured to support login with customized credentials.	No Content
500	NiFi Registry was unable to complete the request because an unexpected error occurred.	No Content

Consumes

- /

Produces

- text/plain

Example HTTP request

```
/access/token/identity-provider
```

Example HTTP response

```
"string"
```

3.1.9. Test identity provider

```
POST /access/token/identity-provider/test
```

Description

Tests the format of the credentials against this identity provider without performing authentication on the credentials to validate them. The user credentials should be passed in a format understood by the custom identity provider as defined by 'GET /access/token/identity-provider/usage'.

Responses

HTTP Code	Description	Schema
200	successful operation	string
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	The format of the credentials were not recognized by the currently configured identity provider.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid. The NiFi Registry may not be configured to support login with customized credentials.	No Content
500	NiFi Registry was unable to complete the request because an unexpected error occurred.	No Content

Consumes

- /

Produces

- text/plain

Example HTTP request

```
/access/token/identity-provider/test
```

Example HTTP response

```
"string"
```

3.1.10. Get identity provider usage

```
GET /access/token/identity-provider/usage
```

Description

Provides a description of how the currently configured identity provider expects credentials to be passed to POST /access/token/identity-provider

Responses

HTTP Code	Description	Schema
200	successful operation	string
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid. The NiFi Registry may not be configured to support login with customized credentials.	No Content
500	NiFi Registry was unable to complete the request because an unexpected error occurred.	No Content

Consumes

- /

Produces

- text/plain

Example HTTP request

```
/access/token/identity-provider/usage
```

Example HTTP response

```
"string"
```

3.1.11. Create token using kerberos

```
POST /access/token/kerberos
```

Description

Creates a token for accessing the REST API via Kerberos Service Tickets or SPNEGO Tokens (which includes Kerberos Service Tickets). The token returned is formatted as a JSON Web Token (JWT). The token is base64 encoded and comprised of three parts. The header, the body, and the signature. The expiration of the token is a contained within the body. The token can be used in the Authorization header in the format 'Authorization: Bearer <token>'.

Responses

HTTP Code	Description	Schema
200	successful operation	string

HTTP Code	Description	Schema
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid. The NiFi Registry may not be configured to support login Kerberos credentials.	No Content
500	NiFi Registry was unable to complete the request because an unexpected error occurred.	No Content

Consumes

- /

Produces

- text/plain

Example HTTP request

```
/access/token/kerberos
```

Example HTTP response

```
"string"
```

3.1.12. Create token using basic auth

```
POST /access/token/login
```

Description

Creates a token for accessing the REST API via username/password. The user credentials must be passed in standard HTTP Basic Auth format. That is: 'Authorization: Basic <credentials>', where <credentials> is the base64 encoded value of '<username>:<password>'. The token returned is formatted as a JSON Web Token (JWT). The token is base64 encoded and comprised of three parts. The header, the body, and the signature. The expiration of the token is contained within the body. The token can be used in the Authorization header in the format 'Authorization: Bearer <token>'.

Responses

HTTP Code	Description	Schema
200	successful operation	string
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content

HTTP Code	Description	Schema
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid. The NiFi Registry may not be configured to support login with username/password.	No Content
500	NiFi Registry was unable to complete the request because an unexpected error occurred.	No Content

Consumes

- /

Produces

- text/plain

Security

Type	Name
basic	2.2. BasicAuth on page 8

Example HTTP request

```
/access/token/login
```

Example HTTP response

```
"string"
```

3.2. Bucket Bundles

Create extension bundles scoped to an existing bucket in the registry.

3.2.1. Get extension bundles by bucket

```
GET /buckets/{bucketId}/bundles
```

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.24. ExtensionBundle on page 243 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/bundles
```

Example HTTP response

```
[ {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "bundleType" : "string",
  "groupId" : "string",
```

```
"artifactId" : "string",
"versionCount" : 0
} ]
```

3.2.2. Create extension bundle version

```
POST /buckets/{bucketId}/bundles/{bundleType}
```

Description

Creates a version of an extension bundle by uploading a binary artifact. If an extension bundle already exists in the given bucket with the same group id and artifact id as that of the bundle being uploaded, then it will be added as a new version to the existing bundle. If an extension bundle does not already exist in the given bucket with the same group id and artifact id, then a new extension bundle will be created and this version will be added to the new bundle. Client's may optionally supply a SHA-256 in hex format through the multi-part form field 'sha256'. If supplied, then this value will be compared against the SHA-256 computed by the server, and the bundle will be rejected if the values do not match. If not supplied, the bundle will be accepted, but will be marked to indicate that the client did not supply a SHA-256 during creation.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Path	bundleType required	The type of the bundle	enum (nifi-nar, minifi-cpp)

Responses

HTTP Code	Description	Schema
200	successful operation	4.11. BundleVersion on page 238
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- multipart/form-data

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/bundles/string
```

Example HTTP response

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "versionMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  },
  "id" : "string",
  "bundleId" : "string",
  "bucketId" : "string",
  "groupId" : "string",
  "artifactId" : "string",
  "version" : "string",
  "timestamp" : 0,
  "author" : "string",
  "description" : "string",
  "sha256" : "string",
  "sha256Supplied" : true,
  "contentSize" : 0,
  "systemApiVersion" : "string",
  "buildInfo" : {
    "buildTool" : "string",
    "buildFlags" : "string",
    "buildBranch" : "string",
    "buildTag" : "string",
    "buildRevision" : "string",
    "built" : 0,
    "builtBy" : "string"
  }
},
"dependencies" : [ {
  "groupId" : "string",
  "artifactId" : "string",
  "version" : "string"
} ],
"bundle" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
},
"identifier" : "string",
```

```

    "name" : "string",
    "description" : "string",
    "bucketIdentifier" : "string",
    "bucketName" : "string",
    "createdTimestamp" : 0,
    "modifiedTimestamp" : 0,
    "type" : "string",
    "permissions" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "bundleType" : "string",
    "groupId" : "string",
    "artifactId" : "string",
    "versionCount" : 0
  },
  "bucket" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
},
"filename" : "string"
}

```

3.3. Bucket Flows

Create flows scoped to an existing bucket in the registry.

3.3.1. Create flow

```
POST /buckets/{bucketId}/flows
```

Description

Creates a flow in the given bucket. The flow id is created by the server and populated in the returned entity.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Body	body required	The details of the flow to create.	4.55. VersionedFlow on page 254

Responses

HTTP Code	Description	Schema
200	successful operation	4.55. VersionedFlow on page 254
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- application/json

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows
```

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,

```

```

    "canWrite" : true,
    "canDelete" : true
  },
  "versionCount" : 0,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
}

```

Example HTTP response

```

  {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    },
    "identifier" : "string",
    "name" : "string",
    "description" : "string",
    "bucketIdentifier" : "string",
    "bucketName" : "string",
    "createdTimestamp" : 0,
    "modifiedTimestamp" : 0,
    "type" : "string",
    "permissions" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "versionCount" : 0,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  }
}

```

3.3.2. Get bucket flows

```
GET /buckets/{bucketId}/flows
```

Description

Retrieves all flows in the given bucket.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.55. VersionedFlow on page 254 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows
```

Example HTTP response

```
{
  "link" : [ {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  } ],
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "versionCount" : 0,
  "revision" : {
    "clientId" : "string",
```

```

    "version" : 0,
    "lastModifier" : "string"
  }
} ]

```

3.3.3. Get bucket flow

```
GET /buckets/{bucketId}/flows/{flowId}
```

Description

Retrieves the flow with the given id in the given bucket.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Path	flowId required	The flow identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.55. VersionedFlow on page 254
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows/string
```

Example HTTP response

```

{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "versionCount" : 0,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
}

```

3.3.4. Update bucket flow

```
PUT /buckets/{bucketId}/flows/{flowId}
```

Description

Updates the flow with the given id in the given bucket.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Path	flowId required	The flow identifier	string
Body	body required	The updated flow	4.55. VersionedFlow on page 254

Responses

HTTP Code	Description	Schema
200	successful operation	4.55. VersionedFlow on page 254
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content

HTTP Code	Description	Schema
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- application/json

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows/string
```

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "versionCount" : 0,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
}
```

Example HTTP response

```

{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "versionCount" : 0,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
}

```

3.3.5. Delete bucket flow

```
DELETE /buckets/{bucketId}/flows/{flowId}
```

Description

Deletes a flow, including all saved versions of that flow.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Path	flowId required	The flow identifier	string
Query	clientId optional	If the client id is not specified, new one will be generated. This value (whether specified or generated) is included in the response.	string
Query	version required	The version is used to verify the client is working with the latest version of the entity.	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.55. VersionedFlow on page 254
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows/string
```

```
{
  "clientId" : "string",
  "version" : "string"
}
```

Example HTTP response

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
}
```

```

    },
    "versionCount" : 0,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  }
}

```

3.3.6. Get bucket flow diff

```
GET /buckets/{bucketId}/flows/{flowId}/diff/{versionA}/{versionB}
```

Description

Computes the differences between two given versions of a flow.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Path	flowId required	The flow identifier	string
Path	versionA required	The first version number	integer (int32)
Path	versionB required	The second version number	integer (int32)

Responses

HTTP Code	Description	Schema
200	successful operation	4.57. VersionedFlowDifference on page 255
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows/string/diff/0/0
```

Example HTTP response

```
{
  "bucketId" : "string",
  "flowId" : "string",
  "versionA" : 0,
  "versionB" : 0,
  "componentDifferenceGroups" : [ {
    "componentId" : "string",
    "componentName" : "string",
    "componentType" : "string",
    "processGroupId" : "string",
    "differences" : [ {
      "valueA" : "string",
      "valueB" : "string",
      "changeDescription" : "string",
      "differenceType" : "string",
      "differenceTypeDescription" : "string"
    } ]
  } ]
}
```

3.3.7. Create flow version

```
POST /buckets/{bucketId}/flows/{flowId}/versions
```

Description

Creates the next version of a flow. The version number of the object being created must be the next available version integer. Flow versions are immutable after they are created.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Path	flowId required	The flow identifier	string
Body	body required	The new versioned flow snapshot.	4.58. VersionedFlowSnapshot on page 256

Responses

HTTP Code	Description	Schema
200	successful operation	4.58. VersionedFlowSnapshot on page 256

HTTP Code	Description	Schema
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows/string/versions
```

```
{
  "snapshotMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    },
    "bucketIdentifier" : "string",
    "flowIdentifier" : "string",
    "version" : 0,
    "timestamp" : 0,
    "author" : "string",
    "comments" : "string"
  },
  "flowContents" : {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "processGroups" : [ {
      "identifier" : "string",
      "name" : "string",
      "comments" : "string",
```

```

"position" : {
  "x" : 0.0,
  "y" : 0.0
},
"processGroups" : [ "..." ],
"remoteProcessGroups" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "targetUri" : "string",
  "targetUris" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
} ],

```

```

    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "processors" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    },
    "style" : {
      "string" : "string"
    },
    "type" : "string",
    "properties" : {
      "string" : "string"
    },
    "propertyDescriptors" : {
      "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "schedulingPeriod" : "string",
    "schedulingStrategy" : "string",
    "executionNode" : "string",
    "penaltyDuration" : "string",
    "yieldDuration" : "string",
    "bulletinLevel" : "string",
    "runDurationMillis" : 0,
    "concurrentlySchedulableTaskCount" : 0,
    "autoTerminatedRelationships" : [ "string" ],
    "scheduledState" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",

```

```

    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,
    "backPressureDataSizeThreshold" : "string",
    "flowFileExpiration" : "string",
    "prioritizers" : [ "string" ],
    "bends" : [ {
      "x" : 0.0,
      "y" : 0.0
    } ],
    "loadBalanceStrategy" : "string",
    "partitioningAttribute" : "string",
    "loadBalanceCompression" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "labels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "label" : "string",
    "width" : 0.0,
    "height" : 0.0,
    "style" : {
      "string" : "string"
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "funnels" : [ {
    "identifier" : "string",

```

```

    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "controllerServices" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    }
  },
  "controllerServiceApis" : [ {
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    }
  } ],
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"versionedFlowCoordinates" : {
  "registryUrl" : "string",
  "bucketId" : "string",
  "flowId" : "string",
  "version" : 0,
  "latest" : true
},
"variables" : {
  "string" : "string"
},
"parameterContextName" : "string",
"defaultFlowFileExpiration" : "string",
"defaultBackPressureObjectThreshold" : 0,
"defaultBackPressureDataSizeThreshold" : "string",
"flowFileConcurrency" : "string",
"flowFileOutboundPolicy" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"remoteProcessGroups" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",

```

```

"position" : {
  "x" : 0.0,
  "y" : 0.0
},
"targetUri" : "string",
"targetUris" : "string",
"communicationsTimeout" : "string",
"yieldDuration" : "string",
"transportProtocol" : "string",
"localNetworkInterface" : "string",
"proxyHost" : "string",
"proxyPort" : 0,
"proxyUser" : "string",
"inputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,

```

```

    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {
    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "schedulingPeriod" : "string",
  "schedulingStrategy" : "string",
  "executionNode" : "string",
  "penaltyDuration" : "string",
  "yieldDuration" : "string",
  "bulletinLevel" : "string",
  "runDurationMillis" : 0,
  "concurrentlySchedulableTaskCount" : 0,
  "autoTerminatedRelationships" : [ "string" ],
  "scheduledState" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"inputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "scheduledState" : "string",
  "allowRemoteAccess" : true,
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "scheduledState" : "string",
  "allowRemoteAccess" : true,
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"connections" : [ {
  "identifier" : "string",
  "name" : "string",

```

```

"comments" : "string",
"position" : {
  "x" : 0.0,
  "y" : 0.0
},
"source" : {
  "id" : "string",
  "type" : "string",
  "groupId" : "string",
  "name" : "string",
  "comments" : "string"
},
"destination" : {
  "id" : "string",
  "type" : "string",
  "groupId" : "string",
  "name" : "string",
  "comments" : "string"
},
"labelIndex" : 0,
"zIndex" : 0,
"selectedRelationships" : [ "string" ],
"backPressureObjectThreshold" : 0,
"backPressureDataSizeThreshold" : "string",
"flowFileExpiration" : "string",
"prioritizers" : [ "string" ],
"bends" : [ {
  "x" : 0.0,
  "y" : 0.0
} ],
"loadBalanceStrategy" : "string",
"partitioningAttribute" : "string",
"loadBalanceCompression" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"labels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "label" : "string",
  "width" : 0.0,
  "height" : 0.0,
  "style" : {
    "string" : "string"
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"funnels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],

```

```

"controllerServices" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "controllerServiceApis" : [ {
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    }
  } ],
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "componentType" : "string",
  "groupIdIdentifier" : "string"
} ],
"versionedFlowCoordinates" : {
  "registryUrl" : "string",
  "bucketId" : "string",
  "flowId" : "string",
  "version" : 0,
  "latest" : true
},
"variables" : {
  "string" : "string"
},
"parameterContextName" : "string",
"defaultFlowFileExpiration" : "string",
"defaultBackPressureObjectThreshold" : 0,
"defaultBackPressureDataSizeThreshold" : "string",
"flowFileConcurrency" : "string",
"flowFileOutboundPolicy" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
},
"externalControllerServices" : {
  "string" : "<<_externalcontrollerservicereference>>"
},
"parameterContexts" : {
  "string" : "<<_versionedparametercontext>>"
},
"flowEncodingVersion" : "string",
"flow" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
}

```

```

    },
    "identifier" : "string",
    "name" : "string",
    "description" : "string",
    "bucketIdentifier" : "string",
    "bucketName" : "string",
    "createdTimestamp" : 0,
    "modifiedTimestamp" : 0,
    "type" : "string",
    "permissions" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "versionCount" : 0,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  },
  "bucket" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
},
"latest" : true
}

```

Example HTTP response

```

{
  "snapshotMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  },
  "bucketIdentifier" : "string",
  "flowIdentifier" : "string",
  "version" : 0,

```

```

    "timestamp" : 0,
    "author" : "string",
    "comments" : "string"
  },
  "flowContents" : {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "processGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  } ],
  "processGroups" : [ "..." ],
  "remoteProcessGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  } ],
  "targetUri" : "string",
  "targetUris" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  } ],
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {

```

```

        "x" : 0.0,
        "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
        "count" : 0,
        "size" : "string",
        "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
} ],
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"processors" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
        "x" : 0.0,
        "y" : 0.0
    },
    "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
    },
    "style" : {
        "string" : "string"
    },
    "type" : "string",
    "properties" : {
        "string" : "string"
    },
    "propertyDescriptors" : {
        "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "schedulingPeriod" : "string",
    "schedulingStrategy" : "string",
    "executionNode" : "string",
    "penaltyDuration" : "string",
    "yieldDuration" : "string",
    "bulletinLevel" : "string",
    "runDurationMillis" : 0,
    "concurrentlySchedulableTaskCount" : 0,
    "autoTerminatedRelationships" : [ "string" ],
    "scheduledState" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
} ],
"inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
        "x" : 0.0,
        "y" : 0.0
    },
} ],

```

```

    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,
    "backPressureDataSizeThreshold" : "string",
    "flowFileExpiration" : "string",
    "prioritizers" : [ "string" ],
    "bends" : [ {
      "x" : 0.0,
      "y" : 0.0
    } ],
    "loadBalanceStrategy" : "string",
    "partitioningAttribute" : "string",
    "loadBalanceCompression" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "labels" : [ {
    "identifier" : "string",
    "name" : "string",

```

```

    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "label" : "string",
    "width" : 0.0,
    "height" : 0.0,
    "style" : {
      "string" : "string"
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "funnels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "controllerServices" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    }
  },
  "controllerServiceApis" : [ {
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    }
  } ],
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"versionedFlowCoordinates" : {
  "registryUrl" : "string",
  "bucketId" : "string",
  "flowId" : "string",
  "version" : 0,
  "latest" : true
},

```

```

    "variables" : {
      "string" : "string"
    },
    "parameterContextName" : "string",
    "defaultFlowFileExpiration" : "string",
    "defaultBackPressureObjectThreshold" : 0,
    "defaultBackPressureDataSizeThreshold" : "string",
    "flowFileConcurrency" : "string",
    "flowFileOutboundPolicy" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "remoteProcessGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "targetUri" : "string",
    "targetUris" : "string",
    "communicationsTimeout" : "string",
    "yieldDuration" : "string",
    "transportProtocol" : "string",
    "localNetworkInterface" : "string",
    "proxyHost" : "string",
    "proxyPort" : 0,
    "proxyUser" : "string",
    "inputPorts" : [ {
      "identifier" : "string",
      "name" : "string",
      "comments" : "string",
      "position" : {
        "x" : 0.0,
        "y" : 0.0
      },
      "remoteGroupId" : "string",
      "concurrentlySchedulableTaskCount" : 0,
      "useCompression" : true,
      "batchSize" : {
        "count" : 0,
        "size" : "string",
        "duration" : "string"
      },
      "componentType" : "string",
      "targetId" : "string",
      "scheduledState" : "string",
      "groupIdentifier" : "string"
    } ],
    "outputPorts" : [ {
      "identifier" : "string",
      "name" : "string",
      "comments" : "string",
      "position" : {
        "x" : 0.0,
        "y" : 0.0
      },
      "remoteGroupId" : "string",
      "concurrentlySchedulableTaskCount" : 0,
      "useCompression" : true,
      "batchSize" : {
        "count" : 0,
        "size" : "string",

```

```

        "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
} ],
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"processors" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
        "x" : 0.0,
        "y" : 0.0
    },
    "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
    },
    "style" : {
        "string" : "string"
    },
    "type" : "string",
    "properties" : {
        "string" : "string"
    },
    "propertyDescriptors" : {
        "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "schedulingPeriod" : "string",
    "schedulingStrategy" : "string",
    "executionNode" : "string",
    "penaltyDuration" : "string",
    "yieldDuration" : "string",
    "bulletinLevel" : "string",
    "runDurationMillis" : 0,
    "concurrentlySchedulableTaskCount" : 0,
    "autoTerminatedRelationships" : [ "string" ],
    "scheduledState" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
} ],
"inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
        "x" : 0.0,
        "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
    "identifier" : "string",

```

```

    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,
    "backPressureDataSizeThreshold" : "string",
    "flowFileExpiration" : "string",
    "prioritizers" : [ "string" ],
    "bends" : [ {
      "x" : 0.0,
      "y" : 0.0
    } ],
    "loadBalanceStrategy" : "string",
    "partitioningAttribute" : "string",
    "loadBalanceCompression" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "labels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "label" : "string",
    "width" : 0.0,
    "height" : 0.0,
    "style" : {

```

```

    "string" : "string"
  },
  "componentType" : "string",
  "groupIdIdentifier" : "string"
} ],
"funnels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "componentType" : "string",
  "groupIdIdentifier" : "string"
} ],
"controllerServices" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "controllerServiceApis" : [ {
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    }
  } ],
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "componentType" : "string",
  "groupIdIdentifier" : "string"
} ],
"versionedFlowCoordinates" : {
  "registryUrl" : "string",
  "bucketId" : "string",
  "flowId" : "string",
  "version" : 0,
  "latest" : true
},
"variables" : {
  "string" : "string"
},
"parameterContextName" : "string",
"defaultFlowFileExpiration" : "string",
"defaultBackPressureObjectThreshold" : 0,
"defaultBackPressureDataSizeThreshold" : "string",
"flowFileConcurrency" : "string",
"flowFileOutboundPolicy" : "string",

```

```

    "componentType" : "string",
    "groupIdentifier" : "string"
  },
  "externalControllerServices" : {
    "string" : "<<_externalcontrollerservicereference>>"
  },
  "parameterContexts" : {
    "string" : "<<_versionedparametercontext>>"
  },
  "flowEncodingVersion" : "string",
  "flow" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "versionCount" : 0,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
},
"bucket" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
},
"latest" : true
}

```

3.3.8. Get bucket flow versions

```
GET /buckets/{bucketId}/flows/{flowId}/versions
```

Description

Gets summary information for all versions of a flow. Versions are ordered newest->oldest.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Path	flowId required	The flow identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.59. VersionedFlowSnapshotMetadata on page 256 > array
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows/string/versions
```

Example HTTP response

```
{
  "link" : [ {
    "href" : "string",
    "params" : {
```

```

    "string" : "string"
  }
},
"bucketIdentifier" : "string",
"flowIdentifier" : "string",
"version" : 0,
"timestamp" : 0,
"author" : "string",
"comments" : "string"
} ]

```

3.3.9. Import flow version

```
POST /buckets/{bucketId}/flows/{flowId}/versions/import
```

Description

Import the next version of a flow. The version number of the object being created will be the next available version integer. Flow versions are immutable after they are created.

Parameters

Type	Name	Description	Schema
Header	Comments optional		string
Path	bucketId required	The bucket identifier	string
Path	flowId required	The flow identifier	string
Body	body optional	file	4.58. VersionedFlowSnapshot on page 256

Responses

HTTP Code	Description	Schema
200	successful operation	4.58. VersionedFlowSnapshot on page 256
201	The resource has been successfully created.	No Content
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- application/json

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows/string/versions/import
```

```
"string"
```

```
{
  "snapshotMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    },
    "bucketIdentifier" : "string",
    "flowIdentifier" : "string",
    "version" : 0,
    "timestamp" : 0,
    "author" : "string",
    "comments" : "string"
  },
  "flowContents" : {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "processGroups" : [ {
      "identifier" : "string",
      "name" : "string",
      "comments" : "string",
      "position" : {
        "x" : 0.0,
        "y" : 0.0
      }
    },
    "processGroups" : [ "... " ],
    "remoteProcessGroups" : [ {
      "identifier" : "string",
      "name" : "string",
      "comments" : "string",
      "position" : {
        "x" : 0.0,
        "y" : 0.0
      }
    },
    "targetUri" : "string",
    "targetUris" : "string",
    "communicationsTimeout" : "string",
    "yieldDuration" : "string",
```

```

"transportProtocol" : "string",
"localNetworkInterface" : "string",
"proxyHost" : "string",
"proxyPort" : 0,
"proxyUser" : "string",
"inputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {

```

```

    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "schedulingPeriod" : "string",
  "schedulingStrategy" : "string",
  "executionNode" : "string",
  "penaltyDuration" : "string",
  "yieldDuration" : "string",
  "bulletinLevel" : "string",
  "runDurationMillis" : 0,
  "concurrentlySchedulableTaskCount" : 0,
  "autoTerminatedRelationships" : [ "string" ],
  "scheduledState" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"inputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "scheduledState" : "string",
  "allowRemoteAccess" : true,
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "scheduledState" : "string",
  "allowRemoteAccess" : true,
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"connections" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "source" : {
    "id" : "string",
    "type" : "string",

```

```

    "groupId" : "string",
    "name" : "string",
    "comments" : "string"
  },
  "destination" : {
    "id" : "string",
    "type" : "string",
    "groupId" : "string",
    "name" : "string",
    "comments" : "string"
  },
  "labelIndex" : 0,
  "zIndex" : 0,
  "selectedRelationships" : [ "string" ],
  "backPressureObjectThreshold" : 0,
  "backPressureDataSizeThreshold" : "string",
  "flowFileExpiration" : "string",
  "prioritizers" : [ "string" ],
  "bends" : [ {
    "x" : 0.0,
    "y" : 0.0
  } ],
  "loadBalanceStrategy" : "string",
  "partitioningAttribute" : "string",
  "loadBalanceCompression" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"labels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "label" : "string",
  "width" : 0.0,
  "height" : 0.0,
  "style" : {
    "string" : "string"
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"funnels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"controllerServices" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
} ],

```

```

    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    },
    "controllerServiceApis" : [ {
      "type" : "string",
      "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
      }
    } ],
    "properties" : {
      "string" : "string"
    },
    "propertyDescriptors" : {
      "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "versionedFlowCoordinates" : {
    "registryUrl" : "string",
    "bucketId" : "string",
    "flowId" : "string",
    "version" : 0,
    "latest" : true
  },
  "variables" : {
    "string" : "string"
  },
  "parameterContextName" : "string",
  "defaultFlowFileExpiration" : "string",
  "defaultBackPressureObjectThreshold" : 0,
  "defaultBackPressureDataSizeThreshold" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"remoteProcessGroups" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "targetUri" : "string",
  "targetUris" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",

```

```

    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {
    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
} ],

```

```

"annotationData" : "string",
"schedulingPeriod" : "string",
"schedulingStrategy" : "string",
"executionNode" : "string",
"penaltyDuration" : "string",
"yieldDuration" : "string",
"bulletinLevel" : "string",
"runDurationMillis" : 0,
"concurrentlySchedulableTaskCount" : 0,
"autoTerminatedRelationships" : [ "string" ],
"scheduledState" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"inputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "scheduledState" : "string",
  "allowRemoteAccess" : true,
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "scheduledState" : "string",
  "allowRemoteAccess" : true,
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"connections" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "source" : {
    "id" : "string",
    "type" : "string",
    "groupId" : "string",
    "name" : "string",
    "comments" : "string"
  },
  "destination" : {
    "id" : "string",
    "type" : "string",
    "groupId" : "string",
    "name" : "string",

```

```

    "comments" : "string"
  },
  "labelIndex" : 0,
  "zIndex" : 0,
  "selectedRelationships" : [ "string" ],
  "backPressureObjectThreshold" : 0,
  "backPressureDataSizeThreshold" : "string",
  "flowFileExpiration" : "string",
  "prioritizers" : [ "string" ],
  "bends" : [ {
    "x" : 0.0,
    "y" : 0.0
  } ],
  "loadBalanceStrategy" : "string",
  "partitioningAttribute" : "string",
  "loadBalanceCompression" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"labels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "label" : "string",
  "width" : 0.0,
  "height" : 0.0,
  "style" : {
    "string" : "string"
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"funnels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"controllerServices" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "controllerServiceApis" : [ {
    "type" : "string",
    "bundle" : {

```

```

        "group" : "string",
        "artifact" : "string",
        "version" : "string"
    }
} ],
"properties" : {
    "string" : "string"
},
"propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
},
"annotationData" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"versionedFlowCoordinates" : {
    "registryUrl" : "string",
    "bucketId" : "string",
    "flowId" : "string",
    "version" : 0,
    "latest" : true
},
"variables" : {
    "string" : "string"
},
"parameterContextName" : "string",
"defaultFlowFileExpiration" : "string",
"defaultBackPressureObjectThreshold" : 0,
"defaultBackPressureDataSizeThreshold" : "string",
"flowFileConcurrency" : "string",
"flowFileOutboundPolicy" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
},
"externalControllerServices" : {
    "string" : "<<_externalcontrollerservicereference>>"
},
"parameterContexts" : {
    "string" : "<<_versionedparametercontext>>"
},
"flowEncodingVersion" : "string",
"flow" : {
    "link" : {
        "href" : "string",
        "params" : {
            "string" : "string"
        }
    }
},
"identifier" : "string",
"name" : "string",
"description" : "string",
"bucketIdentifier" : "string",
"bucketName" : "string",
"createdTimestamp" : 0,
"modifiedTimestamp" : 0,
"type" : "string",
"permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
},
"versionCount" : 0,
"revision" : {
    "clientId" : "string",

```

```

    "version" : 0,
    "lastModifier" : "string"
  }
},
"bucket" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
},
"latest" : true
}

```

Example HTTP response

```

{
  "snapshotMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  },
  "bucketIdentifier" : "string",
  "flowIdentifier" : "string",
  "version" : 0,
  "timestamp" : 0,
  "author" : "string",
  "comments" : "string"
},
"flowContents" : {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  }
},
"processGroups" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {

```

```

    "x" : 0.0,
    "y" : 0.0
  },
  "processGroups" : [ "..." ],
  "remoteProcessGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "targetUri" : "string",
  "targetUris" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"componentType" : "string",

```

```

    "groupIdentifier" : "string"
  } ],
  "processors" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    },
    "style" : {
      "string" : "string"
    },
    "type" : "string",
    "properties" : {
      "string" : "string"
    },
    "propertyDescriptors" : {
      "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "schedulingPeriod" : "string",
    "schedulingStrategy" : "string",
    "executionNode" : "string",
    "penaltyDuration" : "string",
    "yieldDuration" : "string",
    "bulletinLevel" : "string",
    "runDurationMillis" : 0,
    "concurrentlySchedulableTaskCount" : 0,
    "autoTerminatedRelationships" : [ "string" ],
    "scheduledState" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,

```

```

    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,
    "backPressureDataSizeThreshold" : "string",
    "flowFileExpiration" : "string",
    "prioritizers" : [ "string" ],
    "bends" : [ {
      "x" : 0.0,
      "y" : 0.0
    } ],
    "loadBalanceStrategy" : "string",
    "partitioningAttribute" : "string",
    "loadBalanceCompression" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "labels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "label" : "string",
    "width" : 0.0,
    "height" : 0.0,
    "style" : {
      "string" : "string"
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "funnels" : [ {
    "identifier" : "string",
    "name" : "string",

```

```

    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "controllerServices" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    },
    "controllerServiceApis" : [ {
      "type" : "string",
      "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
      }
    }
  ] ],
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"versionedFlowCoordinates" : {
  "registryUrl" : "string",
  "bucketId" : "string",
  "flowId" : "string",
  "version" : 0,
  "latest" : true
},
"variables" : {
  "string" : "string"
},
"parameterContextName" : "string",
"defaultFlowFileExpiration" : "string",
"defaultBackPressureObjectThreshold" : 0,
"defaultBackPressureDataSizeThreshold" : "string",
"flowFileConcurrency" : "string",
"flowFileOutboundPolicy" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"remoteProcessGroups" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {

```

```

    "x" : 0.0,
    "y" : 0.0
  },
  "targetUri" : "string",
  "targetUris" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  }

```

```

    },
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    },
    "style" : {
      "string" : "string"
    },
    "type" : "string",
    "properties" : {
      "string" : "string"
    },
    "propertyDescriptors" : {
      "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "schedulingPeriod" : "string",
    "schedulingStrategy" : "string",
    "executionNode" : "string",
    "penaltyDuration" : "string",
    "yieldDuration" : "string",
    "bulletinLevel" : "string",
    "runDurationMillis" : 0,
    "concurrentlySchedulableTaskCount" : 0,
    "autoTerminatedRelationships" : [ "string" ],
    "scheduledState" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",

```

```

"position" : {
  "x" : 0.0,
  "y" : 0.0
},
"source" : {
  "id" : "string",
  "type" : "string",
  "groupId" : "string",
  "name" : "string",
  "comments" : "string"
},
"destination" : {
  "id" : "string",
  "type" : "string",
  "groupId" : "string",
  "name" : "string",
  "comments" : "string"
},
"labelIndex" : 0,
"zIndex" : 0,
"selectedRelationships" : [ "string" ],
"backPressureObjectThreshold" : 0,
"backPressureDataSizeThreshold" : "string",
"flowFileExpiration" : "string",
"prioritizers" : [ "string" ],
"bends" : [ {
  "x" : 0.0,
  "y" : 0.0
} ],
"loadBalanceStrategy" : "string",
"partitioningAttribute" : "string",
"loadBalanceCompression" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"labels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "label" : "string",
  "width" : 0.0,
  "height" : 0.0,
  "style" : {
    "string" : "string"
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"funnels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"controllerServices" : [ {

```

```

    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    },
    "controllerServiceApis" : [ {
      "type" : "string",
      "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
      }
    } ],
    "properties" : {
      "string" : "string"
    },
    "propertyDescriptors" : {
      "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "versionedFlowCoordinates" : {
    "registryUrl" : "string",
    "bucketId" : "string",
    "flowId" : "string",
    "version" : 0,
    "latest" : true
  },
  "variables" : {
    "string" : "string"
  },
  "parameterContextName" : "string",
  "defaultFlowFileExpiration" : "string",
  "defaultBackPressureObjectThreshold" : 0,
  "defaultBackPressureDataSizeThreshold" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
},
"externalControllerServices" : {
  "string" : "<<_externalcontrollerservicereference>>"
},
"parameterContexts" : {
  "string" : "<<_versionedparametercontext>>"
},
"flowEncodingVersion" : "string",
"flow" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
},

```

```

    "identifier" : "string",
    "name" : "string",
    "description" : "string",
    "bucketIdentifier" : "string",
    "bucketName" : "string",
    "createdTimestamp" : 0,
    "modifiedTimestamp" : 0,
    "type" : "string",
    "permissions" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "versionCount" : 0,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  },
  "bucket" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
},
"latest" : true
}

```

3.3.10. Get latest bucket flow version content

```
GET /buckets/{bucketId}/flows/{flowId}/versions/latest
```

Description

Gets the latest version of a flow, including the metadata and content of the flow.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string

Type	Name	Description	Schema
Path	flowId required	The flow identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.58. VersionedFlowSnapshot on page 256
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows/string/versions/latest
```

Example HTTP response

```
{
  "snapshotMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    },
    "bucketIdentifier" : "string",
    "flowIdentifier" : "string",
    "version" : 0,
    "timestamp" : 0,
    "author" : "string",
    "comments" : "string"
  },
  "flowContents" : {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
```

```

    "y" : 0.0
  },
  "processGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "processGroups" : [ "..." ],
  "remoteProcessGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "targetUri" : "string",
  "targetUris" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  }
},
"remoteGroupId" : "string",
"concurrentlySchedulableTaskCount" : 0,
"useCompression" : true,
"batchSize" : {
  "count" : 0,
  "size" : "string",
  "duration" : "string"
}

```

```

    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {
    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "schedulingPeriod" : "string",
  "schedulingStrategy" : "string",
  "executionNode" : "string",
  "penaltyDuration" : "string",
  "yieldDuration" : "string",
  "bulletinLevel" : "string",
  "runDurationMillis" : 0,
  "concurrentlySchedulableTaskCount" : 0,
  "autoTerminatedRelationships" : [ "string" ],
  "scheduledState" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"inputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "scheduledState" : "string",
  "allowRemoteAccess" : true,
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",

```

```

    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,
    "backPressureDataSizeThreshold" : "string",
    "flowFileExpiration" : "string",
    "prioritizers" : [ "string" ],
    "bends" : [ {
      "x" : 0.0,
      "y" : 0.0
    } ],
    "loadBalanceStrategy" : "string",
    "partitioningAttribute" : "string",
    "loadBalanceCompression" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "labels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "label" : "string",
    "width" : 0.0,
    "height" : 0.0,
    "style" : {
      "string" : "string"
    }
  } ]

```

```

    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "funnels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "controllerServices" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    },
    "controllerServiceApis" : [ {
      "type" : "string",
      "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
      }
    } ],
    "properties" : {
      "string" : "string"
    },
    "propertyDescriptors" : {
      "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "versionedFlowCoordinates" : {
    "registryUrl" : "string",
    "bucketId" : "string",
    "flowId" : "string",
    "version" : 0,
    "latest" : true
  },
  "variables" : {
    "string" : "string"
  },
  "parameterContextName" : "string",
  "defaultFlowFileExpiration" : "string",
  "defaultBackPressureObjectThreshold" : 0,
  "defaultBackPressureDataSizeThreshold" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "string",
  "componentType" : "string",

```

```

    "groupIdentifier" : "string"
  } ],
  "remoteProcessGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "targetUri" : "string",
    "targetUris" : "string",
    "communicationsTimeout" : "string",
    "yieldDuration" : "string",
    "transportProtocol" : "string",
    "localNetworkInterface" : "string",
    "proxyHost" : "string",
    "proxyPort" : 0,
    "proxyUser" : "string",
    "inputPorts" : [ {
      "identifier" : "string",
      "name" : "string",
      "comments" : "string",
      "position" : {
        "x" : 0.0,
        "y" : 0.0
      },
      "remoteGroupId" : "string",
      "concurrentlySchedulableTaskCount" : 0,
      "useCompression" : true,
      "batchSize" : {
        "count" : 0,
        "size" : "string",
        "duration" : "string"
      },
      "componentType" : "string",
      "targetId" : "string",
      "scheduledState" : "string",
      "groupIdentifier" : "string"
    } ],
    "outputPorts" : [ {
      "identifier" : "string",
      "name" : "string",
      "comments" : "string",
      "position" : {
        "x" : 0.0,
        "y" : 0.0
      },
      "remoteGroupId" : "string",
      "concurrentlySchedulableTaskCount" : 0,
      "useCompression" : true,
      "batchSize" : {
        "count" : 0,
        "size" : "string",
        "duration" : "string"
      },
      "componentType" : "string",
      "targetId" : "string",
      "scheduledState" : "string",
      "groupIdentifier" : "string"
    } ],
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
} ],

```

```

"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {
    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "schedulingPeriod" : "string",
  "schedulingStrategy" : "string",
  "executionNode" : "string",
  "penaltyDuration" : "string",
  "yieldDuration" : "string",
  "bulletinLevel" : "string",
  "runDurationMillis" : 0,
  "concurrentlySchedulableTaskCount" : 0,
  "autoTerminatedRelationships" : [ "string" ],
  "scheduledState" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"inputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "scheduledState" : "string",
  "allowRemoteAccess" : true,
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "scheduledState" : "string",
  "allowRemoteAccess" : true,

```

```

    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,
    "backPressureDataSizeThreshold" : "string",
    "flowFileExpiration" : "string",
    "prioritizers" : [ "string" ],
    "bends" : [ {
      "x" : 0.0,
      "y" : 0.0
    } ],
    "loadBalanceStrategy" : "string",
    "partitioningAttribute" : "string",
    "loadBalanceCompression" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "labels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "label" : "string",
    "width" : 0.0,
    "height" : 0.0,
    "style" : {
      "string" : "string"
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "funnels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {

```

```

        "x" : 0.0,
        "y" : 0.0
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
} ],
"controllerServices" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
        "x" : 0.0,
        "y" : 0.0
    },
    "type" : "string",
    "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
    },
    "controllerServiceApis" : [ {
        "type" : "string",
        "bundle" : {
            "group" : "string",
            "artifact" : "string",
            "version" : "string"
        }
    } ],
    "properties" : {
        "string" : "string"
    },
    "propertyDescriptors" : {
        "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
} ],
"versionedFlowCoordinates" : {
    "registryUrl" : "string",
    "bucketId" : "string",
    "flowId" : "string",
    "version" : 0,
    "latest" : true
},
"variables" : {
    "string" : "string"
},
"parameterContextName" : "string",
"defaultFlowFileExpiration" : "string",
"defaultBackPressureObjectThreshold" : 0,
"defaultBackPressureDataSizeThreshold" : "string",
"flowFileConcurrency" : "string",
"flowFileOutboundPolicy" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
},
"externalControllerServices" : {
    "string" : "<<_externalcontrollerservicereference>>"
},
"parameterContexts" : {
    "string" : "<<_versionedparametercontext>>"
},
"flowEncodingVersion" : "string",

```

```

"flow" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "versionCount" : 0,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
},
"bucket" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
},
"latest" : true
}

```

3.3.11. Get latest bucket flow version metadata

```
GET /buckets/{bucketId}/flows/{flowId}/versions/latest/metadata
```

Description

Gets the metadata for the latest version of a flow.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Path	flowId required	The flow identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.59. VersionedFlowSnapshotMetadata on page 256
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows/string/versions/latest/metadata
```

Example HTTP response

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "bucketIdentifier" : "string",
  "flowIdentifier" : "string",
  "version" : 0,
  "timestamp" : 0,
  "author" : "string",
  "comments" : "string"
}
```

3.3.12. Get bucket flow version

```
GET /buckets/{bucketId}/flows/{flowId}/versions/{versionNumber}
```

Description

Gets the given version of a flow, including the metadata and content for the version.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Path	flowId required	The flow identifier	string
Path	versionNumber required	The version number	integer (int32)

Responses

HTTP Code	Description	Schema
200	successful operation	4.58. VersionedFlowSnapshot on page 256
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows/string/versions/0
```

Example HTTP response

```

{
  "snapshotMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    },
    "bucketIdentifier" : "string",
    "flowIdentifier" : "string",
    "version" : 0,
    "timestamp" : 0,
    "author" : "string",
    "comments" : "string"
  },
  "flowContents" : {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "processGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "processGroups" : [ "..." ],
  "remoteProcessGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "targetUri" : "string",
  "targetUris" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,

```

```

    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {
    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "schedulingPeriod" : "string",
  "schedulingStrategy" : "string",
  "executionNode" : "string",
  "penaltyDuration" : "string",
  "yieldDuration" : "string",
  "bulletinLevel" : "string",

```

```

    "runDurationMillis" : 0,
    "concurrentlySchedulableTaskCount" : 0,
    "autoTerminatedRelationships" : [ "string" ],
    "scheduledState" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,
    "backPressureDataSizeThreshold" : "string",

```

```

    "flowFileExpiration" : "string",
    "prioritizers" : [ "string" ],
    "bends" : [ {
      "x" : 0.0,
      "y" : 0.0
    } ],
    "loadBalanceStrategy" : "string",
    "partitioningAttribute" : "string",
    "loadBalanceCompression" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "labels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "label" : "string",
    "width" : 0.0,
    "height" : 0.0,
    "style" : {
      "string" : "string"
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "funnels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "controllerServices" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    },
    "controllerServiceApis" : [ {
      "type" : "string",
      "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
      }
    }
  ] ],
  "properties" : {
    "string" : "string"
  }
}

```

```

    },
    "propertyDescriptors" : {
      "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "versionedFlowCoordinates" : {
    "registryUrl" : "string",
    "bucketId" : "string",
    "flowId" : "string",
    "version" : 0,
    "latest" : true
  },
  "variables" : {
    "string" : "string"
  },
  "parameterContextName" : "string",
  "defaultFlowFileExpiration" : "string",
  "defaultBackPressureObjectThreshold" : 0,
  "defaultBackPressureDataSizeThreshold" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"remoteProcessGroups" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "targetUri" : "string",
  "targetUris" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ]

```

```

} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {
    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "schedulingPeriod" : "string",
  "schedulingStrategy" : "string",
  "executionNode" : "string",
  "penaltyDuration" : "string",
  "yieldDuration" : "string",
  "bulletinLevel" : "string",
  "runDurationMillis" : 0,
  "concurrentlySchedulableTaskCount" : 0,
  "autoTerminatedRelationships" : [ "string" ],
  "scheduledState" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"inputPorts" : [ {
  "identifier" : "string",

```

```

    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,
    "backPressureDataSizeThreshold" : "string",
    "flowFileExpiration" : "string",
    "prioritizers" : [ "string" ],
    "bends" : [ {
      "x" : 0.0,
      "y" : 0.0
    } ],
    "loadBalanceStrategy" : "string",
    "partitioningAttribute" : "string",
    "loadBalanceCompression" : "string",

```

```

    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "labels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "label" : "string",
    "width" : 0.0,
    "height" : 0.0,
    "style" : {
      "string" : "string"
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "funnels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "controllerServices" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    },
    "controllerServiceApis" : [ {
      "type" : "string",
      "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
      }
    }
  ] ],
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"versionedFlowCoordinates" : {

```

```

    "registryUrl" : "string",
    "bucketId" : "string",
    "flowId" : "string",
    "version" : 0,
    "latest" : true
  },
  "variables" : {
    "string" : "string"
  },
  "parameterContextName" : "string",
  "defaultFlowFileExpiration" : "string",
  "defaultBackPressureObjectThreshold" : 0,
  "defaultBackPressureDataSizeThreshold" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
},
"externalControllerServices" : {
  "string" : "<<_externalcontrollerservicereference>>"
},
"parameterContexts" : {
  "string" : "<<_versionedparametercontext>>"
},
"flowEncodingVersion" : "string",
"flow" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
},
"identifier" : "string",
"name" : "string",
"description" : "string",
"bucketIdentifier" : "string",
"bucketName" : "string",
"createdTimestamp" : 0,
"modifiedTimestamp" : 0,
"type" : "string",
"permissions" : {
  "canRead" : true,
  "canWrite" : true,
  "canDelete" : true
},
"versionCount" : 0,
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
},
"bucket" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
},
"identifier" : "string",
"name" : "string",
"createdTimestamp" : 0,
"description" : "string",
"allowBundleRedeploy" : true,

```

```

    "allowPublicRead" : true,
    "permissions" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  },
  "latest" : true
}

```

3.3.13. Exports specified bucket flow version content

```
GET /buckets/{bucketId}/flows/{flowId}/versions/{versionNumber}/export
```

Description

Exports the specified version of a flow, including the metadata and content of the flow.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Path	flowId required	The flow identifier	string
Path	versionNumber required	The version number	integer (int32)

Responses

HTTP Code	Description	Schema
200	successful operation	4.58. VersionedFlowSnapshot on page 256
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string/flows/string/versions/0/export
```

Example HTTP response

```
{
  "snapshotMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    },
    "bucketIdentifier" : "string",
    "flowIdentifier" : "string",
    "version" : 0,
    "timestamp" : 0,
    "author" : "string",
    "comments" : "string"
  },
  "flowContents" : {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "processGroups" : [ {
      "identifier" : "string",
      "name" : "string",
      "comments" : "string",
      "position" : {
        "x" : 0.0,
        "y" : 0.0
      }
    },
    "processGroups" : [ "..." ],
    "remoteProcessGroups" : [ {
      "identifier" : "string",
      "name" : "string",
      "comments" : "string",
      "position" : {
        "x" : 0.0,
        "y" : 0.0
      }
    },
    "targetUri" : "string",
    "targetUris" : "string",
    "communicationsTimeout" : "string",
    "yieldDuration" : "string",
    "transportProtocol" : "string",
    "localNetworkInterface" : "string",
    "proxyHost" : "string",
    "proxyPort" : 0,
    "proxyUser" : "string",
    "inputPorts" : [ {
```

```

    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {
    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
} ],

```

```

    "propertyDescriptors" : {
      "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "schedulingPeriod" : "string",
    "schedulingStrategy" : "string",
    "executionNode" : "string",
    "penaltyDuration" : "string",
    "yieldDuration" : "string",
    "bulletinLevel" : "string",
    "runDurationMillis" : 0,
    "concurrentlySchedulableTaskCount" : 0,
    "autoTerminatedRelationships" : [ "string" ],
    "scheduledState" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",

```

```

    "type" : "string",
    "groupId" : "string",
    "name" : "string",
    "comments" : "string"
  },
  "labelIndex" : 0,
  "zIndex" : 0,
  "selectedRelationships" : [ "string" ],
  "backPressureObjectThreshold" : 0,
  "backPressureDataSizeThreshold" : "string",
  "flowFileExpiration" : "string",
  "prioritizers" : [ "string" ],
  "bends" : [ {
    "x" : 0.0,
    "y" : 0.0
  } ],
  "loadBalanceStrategy" : "string",
  "partitioningAttribute" : "string",
  "loadBalanceCompression" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"labels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "label" : "string",
  "width" : 0.0,
  "height" : 0.0,
  "style" : {
    "string" : "string"
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"funnels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"controllerServices" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
} ],

```

```

    "controllerServiceApis" : [ {
      "type" : "string",
      "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
      }
    } ],
    "properties" : {
      "string" : "string"
    },
    "propertyDescriptors" : {
      "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "componentType" : "string",
    "groupIdIdentifier" : "string"
  } ],
  "versionedFlowCoordinates" : {
    "registryUrl" : "string",
    "bucketId" : "string",
    "flowId" : "string",
    "version" : 0,
    "latest" : true
  },
  "variables" : {
    "string" : "string"
  },
  "parameterContextName" : "string",
  "defaultFlowFileExpiration" : "string",
  "defaultBackPressureObjectThreshold" : 0,
  "defaultBackPressureDataSizeThreshold" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "string",
  "componentType" : "string",
  "groupIdIdentifier" : "string"
} ],
"remoteProcessGroups" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "targetUri" : "string",
  "targetUris" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,

```

```

    "useCompression" : true,
    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {
    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "schedulingPeriod" : "string",
  "schedulingStrategy" : "string",
  "executionNode" : "string",
  "penaltyDuration" : "string",
  "yieldDuration" : "string",

```

```

    "bulletinLevel" : "string",
    "runDurationMillis" : 0,
    "concurrentlySchedulableTaskCount" : 0,
    "autoTerminatedRelationships" : [ "string" ],
    "scheduledState" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,

```

```

"backPressureDataSizeThreshold" : "string",
"flowFileExpiration" : "string",
"prioritizers" : [ "string" ],
"bends" : [ {
  "x" : 0.0,
  "y" : 0.0
} ],
"loadBalanceStrategy" : "string",
"partitioningAttribute" : "string",
"loadBalanceCompression" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"labels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "label" : "string",
  "width" : 0.0,
  "height" : 0.0,
  "style" : {
    "string" : "string"
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"funnels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"controllerServices" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "controllerServiceApis" : [ {
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    }
  }
} ],
"properties" : {

```

```

    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"versionedFlowCoordinates" : {
  "registryUrl" : "string",
  "bucketId" : "string",
  "flowId" : "string",
  "version" : 0,
  "latest" : true
},
"variables" : {
  "string" : "string"
},
"parameterContextName" : "string",
"defaultFlowFileExpiration" : "string",
"defaultBackPressureObjectThreshold" : 0,
"defaultBackPressureDataSizeThreshold" : "string",
"flowFileConcurrency" : "string",
"flowFileOutboundPolicy" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
},
"externalControllerServices" : {
  "string" : "<<_externalcontrollerservicereference>>"
},
"parameterContexts" : {
  "string" : "<<_versionedparametercontext>>"
},
"flowEncodingVersion" : "string",
"flow" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
},
"identifier" : "string",
"name" : "string",
"description" : "string",
"bucketIdentifier" : "string",
"bucketName" : "string",
"createdTimestamp" : 0,
"modifiedTimestamp" : 0,
"type" : "string",
"permissions" : {
  "canRead" : true,
  "canWrite" : true,
  "canDelete" : true
},
"versionCount" : 0,
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
},
"bucket" : {
  "link" : {

```

```

    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
},
"latest" : true
}

```

3.4. Buckets

Create named buckets in the registry to store NiFi objects such flows and extensions. Search for and retrieve existing buckets.

3.4.1. Create bucket

POST /buckets

Parameters

Type	Name	Description	Schema
Body	body required	The bucket to create	4.6. Bucket on page 236

Responses

HTTP Code	Description	Schema
200	successful operation	4.6. Bucket on page 236
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content

Consumes

- application/json

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets
```

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
}
```

Example HTTP response

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
}
```

```

    },
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  }
}

```

3.4.2. Get all buckets

```
GET /buckets
```

Description

The returned list will include only buckets for which the user is authorized. If the user is not authorized for any buckets, this returns an empty list.

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.6. Bucket on page 236 > array
401	Client could not be authenticated.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets
```

Example HTTP response

```

[ {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,

```

```

"allowPublicRead" : true,
"permissions" : {
  "canRead" : true,
  "canWrite" : true,
  "canDelete" : true
},
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
} ]

```

3.4.3. Get bucket fields

```
GET /buckets/fields
```

Description

Retrieves bucket field names for searching or sorting on buckets.

Responses

HTTP Code	Description	Schema
200	successful operation	4.34. Fields on page 246

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/fields
```

Example HTTP response

```

{
  "fields" : [ "string" ]
}

```

3.4.4. Get bucket

```
GET /buckets/{bucketId}
```

Description

Gets the bucket with the given id.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.6. Bucket on page 236
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string
```

Example HTTP response

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
}
```

```

    },
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  }
}

```

3.4.5. Update bucket

```
PUT /buckets/{bucketId}
```

Description

Updates the bucket with the given id.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Body	body required	The updated bucket	4.6. Bucket on page 236

Responses

HTTP Code	Description	Schema
200	successful operation	4.6. Bucket on page 236
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- application/json

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string
```

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
}
```

Example HTTP response

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
}
```

3.4.6. Delete bucket

```
DELETE /buckets/{bucketId}
```

Description

Deletes the bucket with the given id, along with all objects stored in the bucket

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string
Query	clientId optional	If the client id is not specified, new one will be generated. This value (whether specified or generated) is included in the response.	string
Query	version required	The version is used to verify the client is working with the latest version of the entity.	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.6. Bucket on page 236
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/buckets/string
```

```
{
  "clientId" : "string",
  "version" : "string"
}
```

Example HTTP response

```

{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "createdTimestamp" : 0,
  "description" : "string",
  "allowBundleRedeploy" : true,
  "allowPublicRead" : true,
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
}

```

3.5. Bundles

Gets metadata about extension bundles and their versions.

3.5.1. Get all bundles

```
GET /bundles
```

Description

Gets the metadata for all bundles across all authorized buckets with optional filters applied. The returned results will include only items from buckets for which the user is authorized. If the user is not authorized to any buckets, an empty list will be returned.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Query	artifactId optional	Optional artifactId to filter results. The value may be an exact match, or a wildcard, such as 'nifi-%' to select all bundles where the artifactId starts with 'nifi-'.	string

Type	Name	Description	Schema
Query	bucketName optional	Optional bucket name to filter results. The value may be an exact match, or a wildcard, such as 'My Bucket%' to select all bundles where the bucket name starts with 'My Bucket'.	string
Query	groupId optional	Optional groupId to filter results. The value may be an exact match, or a wildcard, such as 'com.%' to select all bundles where the groupId starts with 'com.'.	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.24. ExtensionBundle on page 243 > array
401	Client could not be authenticated.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles
```

```
{
  "artifactId" : "string",
  "bucketName" : "string",
  "groupId" : "string"
}
```

Example HTTP response

```
[ {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
},
"identifier" : "string",
"name" : "string",
```

```

"description" : "string",
"bucketIdentifier" : "string",
"bucketName" : "string",
"createdTimestamp" : 0,
"modifiedTimestamp" : 0,
"type" : "string",
"permissions" : {
  "canRead" : true,
  "canWrite" : true,
  "canDelete" : true
},
"bundleType" : "string",
"groupId" : "string",
"artifactId" : "string",
"versionCount" : 0
} ]

```

3.5.2. Get all bundle versions

```
GET /bundles/versions
```

Description

Gets the metadata about extension bundle versions across all authorized buckets with optional filters applied. If the user is not authorized to any buckets, an empty list will be returned.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Query	artifactId optional	Optional artifactId to filter results. The value may be an exact match, or a wildcard, such as 'nifi-%' to select all bundle versions where the artifactId starts with 'nifi-'.	string
Query	groupId optional	Optional groupId to filter results. The value may be an exact match, or a wildcard, such as 'com.%' to select all bundle versions where the groupId starts with 'com.'.	string
Query	version optional	Optional version to filter results. The value may be an exact match, or a wildcard, such as '1.0.%' to select all bundle versions where the version starts with '1.0.'.	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.13. BundleVersionMetadata on page 238 > array
401	Client could not be authenticated.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles/versions
```

```
{
  "artifactId" : "string",
  "groupId" : "string",
  "version" : "string"
}
```

Example HTTP response

```
[ {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "id" : "string",
  "bundleId" : "string",
  "bucketId" : "string",
  "groupId" : "string",
  "artifactId" : "string",
  "version" : "string",
  "timestamp" : 0,
  "author" : "string",
  "description" : "string",
  "sha256" : "string",
  "sha256Supplied" : true,
  "contentSize" : 0,
  "systemApiVersion" : "string",
  "buildInfo" : {
    "buildTool" : "string",
    "buildFlags" : "string",
    "buildBranch" : "string",
    "buildTag" : "string",
    "buildRevision" : "string",
    "built" : 0,
    "builtBy" : "string"
  }
} ]
```

3.5.3. Get bundle

```
GET /bundles/{bundleId}
```

Description

Gets the metadata about an extension bundle.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bundleId required	The extension bundle identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.24. ExtensionBundle on page 243
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles/string
```

Example HTTP response

```
{
  "link" : {
```

```

    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "bundleType" : "string",
  "groupId" : "string",
  "artifactId" : "string",
  "versionCount" : 0
}

```

3.5.4. Delete bundle

```
DELETE /bundles/{bundleId}
```

Description

Deletes the given extension bundle and all of its versions.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bundleId required	The extension bundle identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.24. ExtensionBundle on page 243
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles/string
```

Example HTTP response

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "bundleType" : "string",
  "groupId" : "string",
  "artifactId" : "string",
  "versionCount" : 0
}
```

3.5.5. Get bundle versions

```
GET /bundles/{bundleId}/versions
```

Description

Gets the metadata for the versions of the given extension bundle.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bundleId required	The extension bundle identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.13. BundleVersionMetadata on page 238 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles/string/versions
```

Example HTTP response

```
{
  "link" : [ {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  } ],
  "id" : "string",
  "bundleId" : "string",
  "bucketId" : "string",
  "groupId" : "string",
  "artifactId" : "string",
  "version" : "string",
  "timestamp" : 0,
  "author" : "string",
}
```

```

"description" : "string",
"sha256" : "string",
"sha256Supplied" : true,
"contentSize" : 0,
"systemApiVersion" : "string",
"buildInfo" : {
  "buildTool" : "string",
  "buildFlags" : "string",
  "buildBranch" : "string",
  "buildTag" : "string",
  "buildRevision" : "string",
  "built" : 0,
  "builtBy" : "string"
}
}
]

```

3.5.6. Get bundle version

```
GET /bundles/{bundleId}/versions/{version}
```

Description

Gets the descriptor for the given version of the given extension bundle.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bundleId required	The extension bundle identifier	string
Path	version required	The version of the bundle	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.11. BundleVersion on page 238
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles/string/versions/string
```

Example HTTP response

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "versionMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    },
    "id" : "string",
    "bundleId" : "string",
    "bucketId" : "string",
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string",
    "timestamp" : 0,
    "author" : "string",
    "description" : "string",
    "sha256" : "string",
    "sha256Supplied" : true,
    "contentSize" : 0,
    "systemApiVersion" : "string",
    "buildInfo" : {
      "buildTool" : "string",
      "buildFlags" : "string",
      "buildBranch" : "string",
      "buildTag" : "string",
      "buildRevision" : "string",
      "built" : 0,
      "builtBy" : "string"
    }
  },
  "dependencies" : [ {
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string"
  } ],
  "bundle" : {
    "link" : {
      "href" : "string",
      "params" : {
```

```

    "string" : "string"
  }
},
"identifier" : "string",
"name" : "string",
"description" : "string",
"bucketIdentifier" : "string",
"bucketName" : "string",
"createdTimestamp" : 0,
"modifiedTimestamp" : 0,
"type" : "string",
"permissions" : {
  "canRead" : true,
  "canWrite" : true,
  "canDelete" : true
},
"bundleType" : "string",
"groupId" : "string",
"artifactId" : "string",
"versionCount" : 0
},
"bucket" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
},
"identifier" : "string",
"name" : "string",
"createdTimestamp" : 0,
"description" : "string",
"allowBundleRedeploy" : true,
"allowPublicRead" : true,
"permissions" : {
  "canRead" : true,
  "canWrite" : true,
  "canDelete" : true
},
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
},
"filename" : "string"
}

```

3.5.7. Delete bundle version

```
DELETE /bundles/{bundleId}/versions/{version}
```

Description

Deletes the given extension bundle version and its associated binary content.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bundleId required	The extension bundle identifier	string
Path	version required	The version of the bundle	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.11. BundleVersion on page 238
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles/string/versions/string
```

Example HTTP response

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "versionMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  },
}
```

```

    "id" : "string",
    "bundleId" : "string",
    "bucketId" : "string",
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string",
    "timestamp" : 0,
    "author" : "string",
    "description" : "string",
    "sha256" : "string",
    "sha256Supplied" : true,
    "contentSize" : 0,
    "systemApiVersion" : "string",
    "buildInfo" : {
      "buildTool" : "string",
      "buildFlags" : "string",
      "buildBranch" : "string",
      "buildTag" : "string",
      "buildRevision" : "string",
      "built" : 0,
      "builtBy" : "string"
    }
  },
  "dependencies" : [ {
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string"
  } ],
  "bundle" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "bundleType" : "string",
  "groupId" : "string",
  "artifactId" : "string",
  "versionCount" : 0
},
"bucket" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
},
"identifier" : "string",
"name" : "string",
"createdTimestamp" : 0,
"description" : "string",

```

```

    "allowBundleRedeploy" : true,
    "allowPublicRead" : true,
    "permissions" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  },
  "filename" : "string"
}

```

3.5.8. Get bundle version content

```
GET /bundles/{bundleId}/versions/{version}/content
```

Description

Gets the binary content for the given version of the given extension bundle.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bundleId required	The extension bundle identifier	string
Path	version required	The version of the bundle	string

Responses

HTTP Code	Description	Schema
200	successful operation	< string (byte) > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/octet-stream

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles/string/versions/string/content
```

Example HTTP response

```
[ "string" ]
```

3.5.9. Get bundle version extensions

```
GET /bundles/{bundleId}/versions/{version}/extensions
```

Description

Gets the metadata about the extensions in the given extension bundle version.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bundleId required	The extension bundle identifier	string
Path	version required	The version of the bundle	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.26. ExtensionMetadata on page 244 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles/string/versions/string/extensions
```

Example HTTP response

```
{
  "link" : [ {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "name" : "string",
  "displayName" : "string",
  "type" : "string",
  "description" : "string",
  "deprecationNotice" : {
    "reason" : "string",
    "alternatives" : [ "string" ]
  },
  "tags" : [ "string" ],
  "restricted" : {
    "generalRestrictionExplanation" : "string",
    "restrictions" : [ {
      "requiredPermission" : "string",
      "explanation" : "string"
    } ]
  },
  "providedServiceAPIs" : [ {
    "className" : "string",
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string"
  } ],
  "bundleInfo" : {
    "bucketId" : "string",
    "bucketName" : "string",
    "bundleId" : "string",
    "bundleType" : "string",
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string",
    "systemApiVersion" : "string"
  },
  "hasAdditionalDetails" : true,
  "linkDocs" : {
    "href" : "string",
    "params" : {
```

```

    "string" : "string"
  }
}
} ]

```

3.5.10. Get bundle version extension

```
GET /bundles/{bundleId}/versions/{version}/extensions/{name}
```

Description

Gets the metadata about the extension with the given name in the given extension bundle version.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bundleId required	The extension bundle identifier	string
Path	name required	The fully qualified name of the extension	string
Path	version required	The version of the bundle	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.23. Extension on page 242 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles/string/versions/string/extensions/string
```

Example HTTP response

```
[ {
  "name" : "string",
  "type" : "string",
  "deprecationNotice" : {
    "reason" : "string",
    "alternatives" : [ "string" ]
  },
  "description" : "string",
  "tags" : [ "string" ],
  "properties" : [ {
    "name" : "string",
    "displayName" : "string",
    "description" : "string",
    "defaultValue" : "string",
    "controllerServiceDefinition" : {
      "className" : "string",
      "groupId" : "string",
      "artifactId" : "string",
      "version" : "string"
    },
    "allowableValues" : [ {
      "value" : "string",
      "displayName" : "string",
      "description" : "string"
    } ],
    "required" : true,
    "sensitive" : true,
    "expressionLanguageSupported" : true,
    "expressionLanguageScope" : "string",
    "dynamicallyModifiesClasspath" : true,
    "dynamic" : true
  } ],
  "dynamicProperties" : [ {
    "name" : "string",
    "value" : "string",
    "description" : "string",
    "expressionLanguageScope" : "string",
    "expressionLanguageSupported" : true
  } ],
  "relationships" : [ {
    "name" : "string",
    "description" : "string",
    "autoTerminated" : true
  } ],
  "dynamicRelationship" : {
    "name" : "string",
    "description" : "string"
  },
  "readsAttributes" : [ {
    "name" : "string",
    "description" : "string"
  } ],
  "writesAttributes" : [ {
    "name" : "string",
```

```

    "description" : "string"
  } ],
  "stateful" : {
    "description" : "string",
    "scopes" : [ "string" ]
  },
  "restricted" : {
    "generalRestrictionExplanation" : "string",
    "restrictions" : [ {
      "requiredPermission" : "string",
      "explanation" : "string"
    } ]
  },
  "inputRequirement" : "string",
  "systemResourceConsiderations" : [ {
    "resource" : "string",
    "description" : "string"
  } ],
  "seeAlso" : [ "string" ],
  "providedServiceAPIs" : [ {
    "className" : "string",
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string"
  } ]
} ]
} ]

```

3.5.11. Get bundle version extension docs

```
GET /bundles/{bundleId}/versions/{version}/extensions/{name}/docs
```

Description

Gets the documentation for the given extension in the given extension bundle version.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bundleId required	The extension bundle identifier	string
Path	name required	The fully qualified name of the extension	string
Path	version required	The version of the bundle	string

Responses

HTTP Code	Description	Schema
200	successful operation	string
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content

HTTP Code	Description	Schema
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- text/html

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles/string/versions/string/extensions/string/docs
```

Example HTTP response

```
"string"
```

3.5.12. Get bundle version extension docs details

```
GET /bundles/{bundleId}/versions/{version}/extensions/{name}/docs/additional-details
```

Description

Gets the additional details documentation for the given extension in the given extension bundle version.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bundleId required	The extension bundle identifier	string
Path	name required	The fully qualified name of the extension	string
Path	version required	The version of the bundle	string

Responses

HTTP Code	Description	Schema
200	successful operation	string
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- text/html

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/bundles/string/versions/string/extensions/string/docs/additional-details
```

Example HTTP response

```
"string"
```

3.6. Config

Retrieves the configuration for this NiFi Registry.

3.6.1. Get configuration

```
GET /config
```

Description

Gets the NiFi Registry configurations.

Responses

HTTP Code	Description	Schema
200	successful operation	4.40. RegistryConfiguration on page 248
401	Client could not be authenticated.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/config
```

Example HTTP response

```
{
  "supportsManagedAuthorizer" : true,
  "supportsConfigurableAuthorizer" : true,
  "supportsConfigurableUsersAndGroups" : true
}
```

3.7. Extension Repository

Interact with extension bundles via the hierarchy of bucket/group/artifact/version.

3.7.1. Get extension repo buckets

```
GET /extension-repository
```

Description

Gets the names of the buckets the current user is authorized for in order to browse the repo by bucket.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.29. ExtensionRepoBucket on page 245 > array

HTTP Code	Description	Schema
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extension-repository
```

Example HTTP response

```
[ {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "bucketName" : "string"
} ]
```

3.7.2. Get extension repo groups

```
GET /extension-repository/{bucketName}
```

Description

Gets the groups in the extension repository in the given bucket.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bucketName required	The bucket name	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.30. ExtensionRepoGroup on page 245 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extension-repository/string
```

Example HTTP response

```
[ {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "bucketName" : "string",
  "groupId" : "string"
} ]
```

3.7.3. Get extension repo artifacts

```
GET /extension-repository/{bucketName}/{groupId}
```

Description

Gets the artifacts in the extension repository in the given bucket and group.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	bucketName required	The bucket name	string
Path	groupId required	The group id	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.28. ExtensionRepoArtifact on page 245 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extension-repository/string/string
```

Example HTTP response

```
[ {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "bucketName" : "string",
  "groupId" : "string",
  "artifactId" : "string"
} ]
```

3.7.4. Get extension repo versions

```
GET /extension-repository/{bucketName}/{groupId}/{artifactId}
```

Description

Gets the versions in the extension repository for the given bucket, group, and artifact.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	artifactId required	The artifact identifier	string
Path	bucketName required	The bucket name	string
Path	groupId required	The group identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.32. ExtensionRepoVersionSummary on page 246 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extension-repository/string/string/string
```

Example HTTP response

```
[ {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "bucketName" : "string",
  "groupId" : "string",
  "artifactId" : "string",
  "version" : "string",
  "author" : "string",
  "timestamp" : 0
} ]
```

3.7.5. Get extension repo version

```
GET /extension-repository/{bucketName}/{groupId}/{artifactId}/{version}
```

Description

Gets information about the version in the given bucket, group, and artifact.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	artifactId required	The artifact identifier	string
Path	bucketName required	The bucket name	string
Path	groupId required	The group identifier	string
Path	version required	The version	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.31. ExtensionRepoVersion on page 245

HTTP Code	Description	Schema
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extension-repository/string/string/string/string
```

Example HTTP response

```
{
  "extensionsLink" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "downloadLink" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "sha256Link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "sha256Supplied" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
}
```

}

3.7.6. Get extension repo version content

```
GET /extension-repository/{bucketName}/{groupId}/{artifactId}/{version}/content
```

Description

Gets the binary content of the bundle with the given bucket, group, artifact, and version.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	artifactId required	The artifact identifier	string
Path	bucketName required	The bucket name	string
Path	groupId required	The group identifier	string
Path	version required	The version	string

Responses

HTTP Code	Description	Schema
200	successful operation	< string (byte) > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/octet-stream

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extension-repository/string/string/string/string/content
```

Example HTTP response

```
[ "string" ]
```

3.7.7. Get extension repo extensions

```
GET /extension-repository/{bucketName}/{groupId}/{artifactId}/{version}/extensions
```

Description

Gets information about the extensions in the given bucket, group, artifact, and version.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	artifactId required	The artifact identifier	string
Path	bucketName required	The bucket name	string
Path	groupId required	The group identifier	string
Path	version required	The version	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.26. ExtensionMetadata on page 244 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extension-repository/string/string/string/string/extensions
```

Example HTTP response

```
{
  "link" : [ {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  } ],
  "name" : "string",
  "displayName" : "string",
  "type" : "string",
  "description" : "string",
  "deprecationNotice" : {
    "reason" : "string",
    "alternatives" : [ "string" ]
  },
  "tags" : [ "string" ],
  "restricted" : {
    "generalRestrictionExplanation" : "string",
    "restrictions" : [ {
      "requiredPermission" : "string",
      "explanation" : "string"
    } ]
  },
  "providedServiceAPIs" : [ {
    "className" : "string",
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string"
  } ],
  "bundleInfo" : {
    "bucketId" : "string",
    "bucketName" : "string",
    "bundleId" : "string",
    "bundleType" : "string",
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string",
    "systemApiVersion" : "string"
  },
  "hasAdditionalDetails" : true,
  "linkDocs" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
}
```

```
} ]
```

3.7.8. Get extension repo extension

```
GET /extension-repository/{bucketName}/{groupId}/{artifactId}/{version}/extensions/{name}
```

Description

Gets information about the extension with the given name in the given bucket, group, artifact, and version.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	artifactId required	The artifact identifier	string
Path	bucketName required	The bucket name	string
Path	groupId required	The group identifier	string
Path	name required	The fully qualified name of the extension	string
Path	version required	The version	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.23. Extension on page 242
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extension-repository/string/string/string/string/extensions/string
```

Example HTTP response

```
{
  "name" : "string",
  "type" : "string",
  "deprecationNotice" : {
    "reason" : "string",
    "alternatives" : [ "string" ]
  },
  "description" : "string",
  "tags" : [ "string" ],
  "properties" : [ {
    "name" : "string",
    "displayName" : "string",
    "description" : "string",
    "defaultValue" : "string",
    "controllerServiceDefinition" : {
      "className" : "string",
      "groupId" : "string",
      "artifactId" : "string",
      "version" : "string"
    },
    "allowableValues" : [ {
      "value" : "string",
      "displayName" : "string",
      "description" : "string"
    } ],
    "required" : true,
    "sensitive" : true,
    "expressionLanguageSupported" : true,
    "expressionLanguageScope" : "string",
    "dynamicallyModifiesClasspath" : true,
    "dynamic" : true
  } ],
  "dynamicProperties" : [ {
    "name" : "string",
    "value" : "string",
    "description" : "string",
    "expressionLanguageScope" : "string",
    "expressionLanguageSupported" : true
  } ],
  "relationships" : [ {
    "name" : "string",
    "description" : "string",
    "autoTerminated" : true
  } ],
  "dynamicRelationship" : {
    "name" : "string",
    "description" : "string"
  },
  "readsAttributes" : [ {
    "name" : "string",
```

```

    "description" : "string"
  } ],
  "writesAttributes" : [ {
    "name" : "string",
    "description" : "string"
  } ],
  "stateful" : {
    "description" : "string",
    "scopes" : [ "string" ]
  },
  "restricted" : {
    "generalRestrictionExplanation" : "string",
    "restrictions" : [ {
      "requiredPermission" : "string",
      "explanation" : "string"
    } ]
  },
  "inputRequirement" : "string",
  "systemResourceConsiderations" : [ {
    "resource" : "string",
    "description" : "string"
  } ],
  "seeAlso" : [ "string" ],
  "providedServiceAPIs" : [ {
    "className" : "string",
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string"
  } ]
}

```

3.7.9. Get extension repo extension docs

```
GET /extension-repository/{bucketName}/{groupId}/{artifactId}/{version}/extensions/{name}/docs
```

Description

Gets the documentation for the extension with the given name in the given bucket, group, artifact, and version.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	artifactId required	The artifact identifier	string
Path	bucketName required	The bucket name	string
Path	groupId required	The group identifier	string
Path	name required	The fully qualified name of the extension	string
Path	version required	The version	string

Responses

HTTP Code	Description	Schema
200	successful operation	string
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- text/html

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extension-repository/string/string/string/string/extensions/string/docs
```

Example HTTP response

```
"string"
```

3.7.10. Get extension repo extension details

```
GET /extension-repository/{bucketName}/{groupId}/{artifactId}/{version}/extensions/{name}/docs/additional-details
```

Description

Gets the additional details documentation for the extension with the given name in the given bucket, group, artifact, and version.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	artifactId required	The artifact identifier	string
Path	bucketName required	The bucket name	string
Path	groupId required	The group identifier	string
Path	name required	The fully qualified name of the extension	string
Path	version required	The version	string

Responses

HTTP Code	Description	Schema
200	successful operation	string
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- text/html

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extension-repository/string/string/string/string/extensions/string/docs/additional-details
```

Example HTTP response

```
"string"
```

3.7.11. Get extension repo version checksum

```
GET /extension-repository/{bucketName}/{groupId}/{artifactId}/{version}/sha256
```

Description

Gets the hex representation of the SHA-256 digest for the binary content of the bundle with the given bucket, group, artifact, and version.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	artifactId required	The artifact identifier	string
Path	bucketName required	The bucket name	string
Path	groupId required	The group identifier	string
Path	version required	The version	string

Responses

HTTP Code	Description	Schema
200	successful operation	string
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- text/plain

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extension-repository/string/string/string/string/sha256
```

Example HTTP response

```
"string"
```

3.7.12. Get global extension repo version checksum

```
GET /extension-repository/{groupId}/{artifactId}/{version}/sha256
```

Description

Gets the hex representation of the SHA-256 digest for the binary content with the given bucket, group, artifact, and version. Since the same group-artifact-version can exist in multiple buckets, this will return the checksum of the first one returned. This will be consistent since the checksum must be the same when existing in multiple buckets.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	artifactId required	The artifact identifier	string
Path	groupId required	The group identifier	string
Path	version required	The version	string

Responses

HTTP Code	Description	Schema
200	successful operation	string
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- text/plain

Security

Type	Name
apiKey	

Example HTTP request

```
/extension-repository/string/string/string/sha256
```

Example HTTP response

```
"string"
```

3.8. Extensions

Find and retrieve extensions.

3.8.1. Get all extensions

```
GET /extensions
```

Description

Gets the metadata for all extensions that match the filter params and are part of bundles located in buckets the current user is authorized for. If the user is not authorized to any buckets, an empty result set will be returned.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Query	bundleType optional	The type of bundles to return	enum (nifi-nar, minifi-cpp)
Query	extensionType optional	The type of extensions to return	enum (PROCESSOR, CONTROLLER_SERVICE, REPORTING_TASK)
Query	tag optional	The tags to filter on, will be used in an OR statement	< string > array(multi)

Responses

HTTP Code	Description	Schema
200	successful operation	4.27. ExtensionMetadataContainer on page 244
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content

HTTP Code	Description	Schema
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extensions
```

```
{
  "bundleType" : "string",
  "extensionType" : "string",
  "tag" : "string"
}
```

Example HTTP response

```
{
  "numResults" : 0,
  "filterParams" : {
    "bundleType" : "string",
    "extensionType" : "string",
    "tags" : [ "string" ]
  },
  "extensions" : [ {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  },
  "name" : "string",
  "displayName" : "string",
  "type" : "string",
  "description" : "string",
  "deprecationNotice" : {
    "reason" : "string",
    "alternatives" : [ "string" ]
  },
  "tags" : [ "string" ],
  "restricted" : {
```

```

    "generalRestrictionExplanation" : "string",
    "restrictions" : [ {
      "requiredPermission" : "string",
      "explanation" : "string"
    } ]
  },
  "providedServiceAPIs" : [ {
    "className" : "string",
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string"
  } ],
  "bundleInfo" : {
    "bucketId" : "string",
    "bucketName" : "string",
    "bundleId" : "string",
    "bundleType" : "string",
    "groupId" : "string",
    "artifactId" : "string",
    "version" : "string",
    "systemApiVersion" : "string"
  },
  "hasAdditionalDetails" : true,
  "linkDocs" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
} ]
}

```

3.8.2. Get extensions providing service API

```
GET /extensions/provided-service-api
```

Description

Gets the metadata for extensions that provide the specified API and are part of bundles located in buckets the current user is authorized for. If the user is not authorized to any buckets, an empty result set will be returned.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Query	artifactId required	The artifactId of the bundle containing the service API class	string
Query	className required	The name of the service API class	string
Query	groupId required	The groupId of the bundle containing the service API class	string
Query	version required	The version of the bundle containing the service API class	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.27. ExtensionMetadataContainer on page 244
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extensions/provided-service-api
```

```
{
  "artifactId" : "string",
  "className" : "string",
  "groupId" : "string",
  "version" : "string"
}
```

Example HTTP response

```
{
  "numResults" : 0,
  "filterParams" : {
    "bundleType" : "string",
    "extensionType" : "string",
    "tags" : [ "string" ]
  },
  "extensions" : [ {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  }
]
```

```

    },
    "name" : "string",
    "displayName" : "string",
    "type" : "string",
    "description" : "string",
    "deprecationNotice" : {
      "reason" : "string",
      "alternatives" : [ "string" ]
    },
    "tags" : [ "string" ],
    "restricted" : {
      "generalRestrictionExplanation" : "string",
      "restrictions" : [ {
        "requiredPermission" : "string",
        "explanation" : "string"
      } ]
    },
    "providedServiceAPIs" : [ {
      "className" : "string",
      "groupId" : "string",
      "artifactId" : "string",
      "version" : "string"
    } ],
    "bundleInfo" : {
      "bucketId" : "string",
      "bucketName" : "string",
      "bundleId" : "string",
      "bundleType" : "string",
      "groupId" : "string",
      "artifactId" : "string",
      "version" : "string",
      "systemApiVersion" : "string"
    },
    "hasAdditionalDetails" : true,
    "linkDocs" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  } ]
}

```

3.8.3. Get extension tags

```
GET /extensions/tags
```

Description

Gets all the extension tags known to this NiFi Registry instance, along with the number of extensions that have the given tag.



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.49. TagCount on page 250 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/extensions/tags
```

Example HTTP response

```
[ {
  "tag" : "string",
  "count" : 0
} ]
```

3.9. Flows

Gets metadata about flows.

3.9.1. Get flow fields

```
GET /flows/fields
```

Description

Retrieves the flow field names that can be used for searching or sorting on flows.

Responses

HTTP Code	Description	Schema
200	successful operation	4.34. Fields on page 246

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/flows/fields
```

Example HTTP response

```
{
  "fields" : [ "string" ]
}
```

3.9.2. Get flow

```
GET /flows/{flowId}
```

Description

Gets a flow by id.

Parameters

Type	Name	Description	Schema
Path	flowId required	The flow identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.55. VersionedFlow on page 254
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content

HTTP Code	Description	Schema
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/flows/string
```

Example HTTP response

```
{
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "versionCount" : 0,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
}
```

3.9.3. Get flow versions

```
GET /flows/{flowId}/versions
```

Description

Gets summary information for all versions of a given flow. Versions are ordered newest->oldest.

Parameters

Type	Name	Description	Schema
Path	flowId required	The flow identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.59. VersionedFlowSnapshotMetadata on page 256 > array
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/flows/string/versions
```

Example HTTP response

```
[ {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "bucketIdentifier" : "string",
  "flowIdentifier" : "string",
  "version" : 0,
  "timestamp" : 0,
  "author" : "string",
  "comments" : "string"
} ]
```

3.9.4. Get latest flow version

```
GET /flows/{flowId}/versions/latest
```

Description

Gets the latest version of a flow, including metadata and flow content.

Parameters

Type	Name	Description	Schema
Path	flowId required	The flow identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.58. VersionedFlowSnapshot on page 256
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/flows/string/versions/latest
```

Example HTTP response

```
{
  "snapshotMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    }
  }
}
```

```

    },
    "bucketIdentifier" : "string",
    "flowIdentifier" : "string",
    "version" : 0,
    "timestamp" : 0,
    "author" : "string",
    "comments" : "string"
  },
  "flowContents" : {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "processGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  } ],
  "processGroups" : [ "..." ],
  "remoteProcessGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  } ],
  "targetUri" : "string",
  "targetUris" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  } ],
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  }
},
"componentType" : "string",
"targetId" : "string",
"scheduledState" : "string",
"groupIdentifier" : "string"
} ],
"outputPorts" : [ {

```

```

    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {
    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "schedulingPeriod" : "string",
  "schedulingStrategy" : "string",
  "executionNode" : "string",
  "penaltyDuration" : "string",
  "yieldDuration" : "string",
  "bulletinLevel" : "string",
  "runDurationMillis" : 0,
  "concurrentlySchedulableTaskCount" : 0,
  "autoTerminatedRelationships" : [ "string" ],
  "scheduledState" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"inputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",

```

```

    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    }
  },
  "labelIndex" : 0,
  "zIndex" : 0,
  "selectedRelationships" : [ "string" ],
  "backPressureObjectThreshold" : 0,
  "backPressureDataSizeThreshold" : "string",
  "flowFileExpiration" : "string",
  "prioritizers" : [ "string" ],
  "bends" : [ {
    "x" : 0.0,
    "y" : 0.0
  } ],
  "loadBalanceStrategy" : "string",
  "partitioningAttribute" : "string",
  "loadBalanceCompression" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"

```

```

} ],
"labels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "label" : "string",
  "width" : 0.0,
  "height" : 0.0,
  "style" : {
    "string" : "string"
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"funnels" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"controllerServices" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "controllerServiceApis" : [ {
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    }
  } ],
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"versionedFlowCoordinates" : {
  "registryUrl" : "string",
  "bucketId" : "string",

```

```

    "flowId" : "string",
    "version" : 0,
    "latest" : true
  },
  "variables" : {
    "string" : "string"
  },
  "parameterContextName" : "string",
  "defaultFlowFileExpiration" : "string",
  "defaultBackPressureObjectThreshold" : 0,
  "defaultBackPressureDataSizeThreshold" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"remoteProcessGroups" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "targetUri" : "string",
  "targetUriS" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,

```

```

    "useCompression" : true,
    "batchSize" : {
      "count" : 0,
      "size" : "string",
      "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
  } ],
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {
    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "schedulingPeriod" : "string",
  "schedulingStrategy" : "string",
  "executionNode" : "string",
  "penaltyDuration" : "string",
  "yieldDuration" : "string",
  "bulletinLevel" : "string",
  "runDurationMillis" : 0,
  "currentlySchedulableTaskCount" : 0,
  "autoTerminatedRelationships" : [ "string" ],
  "scheduledState" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
} ],
"inputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "type" : "string",
  "currentlySchedulableTaskCount" : 0,
  "scheduledState" : "string",
  "allowRemoteAccess" : true,
  "componentType" : "string",

```

```

    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,
    "backPressureDataSizeThreshold" : "string",
    "flowFileExpiration" : "string",
    "prioritizers" : [ "string" ],
    "bends" : [ {
      "x" : 0.0,
      "y" : 0.0
    } ],
    "loadBalanceStrategy" : "string",
    "partitioningAttribute" : "string",
    "loadBalanceCompression" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "labels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    }
  } ],

```

```

    "label" : "string",
    "width" : 0.0,
    "height" : 0.0,
    "style" : {
      "string" : "string"
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "funnels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "controllerServices" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    },
    "controllerServiceApis" : [ {
      "type" : "string",
      "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
      }
    } ],
    "properties" : {
      "string" : "string"
    },
    "propertyDescriptors" : {
      "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "versionedFlowCoordinates" : {
    "registryUrl" : "string",
    "bucketId" : "string",
    "flowId" : "string",
    "version" : 0,
    "latest" : true
  },
  "variables" : {
    "string" : "string"
  },
  "parameterContextName" : "string",
  "defaultFlowFileExpiration" : "string",

```

```

    "defaultBackPressureObjectThreshold" : 0,
    "defaultBackPressureDataSizeThreshold" : "string",
    "flowFileConcurrency" : "string",
    "flowFileOutboundPolicy" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  },
  "externalControllerServices" : {
    "string" : "<<_externalcontrollerservicereference>>"
  },
  "parameterContexts" : {
    "string" : "<<_versionedparametercontext>>"
  },
  "flowEncodingVersion" : "string",
  "flow" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    },
    "identifier" : "string",
    "name" : "string",
    "description" : "string",
    "bucketIdentifier" : "string",
    "bucketName" : "string",
    "createdTimestamp" : 0,
    "modifiedTimestamp" : 0,
    "type" : "string",
    "permissions" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "versionCount" : 0,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  },
  "bucket" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    },
    "identifier" : "string",
    "name" : "string",
    "createdTimestamp" : 0,
    "description" : "string",
    "allowBundleRedeploy" : true,
    "allowPublicRead" : true,
    "permissions" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  }
}

```

```

    },
    "latest" : true
  }

```

3.9.5. Get latest flow version metadata

```
GET /flows/{flowId}/versions/latest/metadata
```

Description

Gets the metadata for the latest version of a flow.

Parameters

Type	Name	Description	Schema
Path	flowId required	The flow identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.59. VersionedFlowSnapshotMetadata on page 256
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/flows/string/versions/latest/metadata
```

Example HTTP response

```

{
  "link" : {
    "href" : "string",

```

```

    "params" : {
      "string" : "string"
    }
  },
  "bucketIdentifier" : "string",
  "flowIdentifier" : "string",
  "version" : 0,
  "timestamp" : 0,
  "author" : "string",
  "comments" : "string"
}

```

3.9.6. Get flow version

```
GET /flows/{flowId}/versions/{versionNumber}
```

Description

Gets the given version of a flow, including metadata and flow content.

Parameters

Type	Name	Description	Schema
Path	flowId required	The flow identifier	string
Path	versionNumber required	The version number	integer (int32)

Responses

HTTP Code	Description	Schema
200	successful operation	4.58. VersionedFlowSnapshot on page 256
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/flows/string/versions/0
```

Example HTTP response

```
{
  "snapshotMetadata" : {
    "link" : {
      "href" : "string",
      "params" : {
        "string" : "string"
      }
    },
    "bucketIdentifier" : "string",
    "flowIdentifier" : "string",
    "version" : 0,
    "timestamp" : 0,
    "author" : "string",
    "comments" : "string"
  },
  "flowContents" : {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
  },
  "processGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
  },
  "processGroups" : [ "..." ],
  "remoteProcessGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
  },
  "targetUri" : "string",
  "targetUris" : "string",
  "communicationsTimeout" : "string",
  "yieldDuration" : "string",
  "transportProtocol" : "string",
  "localNetworkInterface" : "string",
  "proxyHost" : "string",
  "proxyPort" : 0,
  "proxyUser" : "string",
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
```

```

        "x" : 0.0,
        "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
        "count" : 0,
        "size" : "string",
        "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
        "x" : 0.0,
        "y" : 0.0
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
        "count" : 0,
        "size" : "string",
        "duration" : "string"
    },
    "componentType" : "string",
    "targetId" : "string",
    "scheduledState" : "string",
    "groupIdentifier" : "string"
} ],
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"processors" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
        "x" : 0.0,
        "y" : 0.0
    },
    "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
    },
    "style" : {
        "string" : "string"
    },
    "type" : "string",
    "properties" : {
        "string" : "string"
    },
    "propertyDescriptors" : {
        "string" : "<<_versionedpropertydescriptor>>"
    },
    "annotationData" : "string",

```

```

"schedulingPeriod" : "string",
"schedulingStrategy" : "string",
"executionNode" : "string",
"penaltyDuration" : "string",
"yieldDuration" : "string",
"bulletinLevel" : "string",
"runDurationMillis" : 0,
"concurrentlySchedulableTaskCount" : 0,
"autoTerminatedRelationships" : [ "string" ],
"scheduledState" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"inputPorts" : [ {
"identifier" : "string",
"name" : "string",
"comments" : "string",
"position" : {
"x" : 0.0,
"y" : 0.0
},
"type" : "string",
"concurrentlySchedulableTaskCount" : 0,
"scheduledState" : "string",
"allowRemoteAccess" : true,
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"outputPorts" : [ {
"identifier" : "string",
"name" : "string",
"comments" : "string",
"position" : {
"x" : 0.0,
"y" : 0.0
},
"type" : "string",
"concurrentlySchedulableTaskCount" : 0,
"scheduledState" : "string",
"allowRemoteAccess" : true,
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"connections" : [ {
"identifier" : "string",
"name" : "string",
"comments" : "string",
"position" : {
"x" : 0.0,
"y" : 0.0
},
"source" : {
"id" : "string",
"type" : "string",
"groupId" : "string",
"name" : "string",
"comments" : "string"
},
"destination" : {
"id" : "string",
"type" : "string",
"groupId" : "string",
"name" : "string",
"comments" : "string"
}
} ],

```

```

    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,
    "backPressureDataSizeThreshold" : "string",
    "flowFileExpiration" : "string",
    "prioritizers" : [ "string" ],
    "bends" : [ {
      "x" : 0.0,
      "y" : 0.0
    } ],
    "loadBalanceStrategy" : "string",
    "partitioningAttribute" : "string",
    "loadBalanceCompression" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "labels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "label" : "string",
    "width" : 0.0,
    "height" : 0.0,
    "style" : {
      "string" : "string"
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "funnels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "controllerServices" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "bundle" : {
      "group" : "string",
      "artifact" : "string",
      "version" : "string"
    },
    "controllerServiceApis" : [ {
      "type" : "string",
      "bundle" : {
        "group" : "string",

```

```

        "artifact" : "string",
        "version" : "string"
    }
} ],
"properties" : {
    "string" : "string"
},
"propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
},
"annotationData" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"versionedFlowCoordinates" : {
    "registryUrl" : "string",
    "bucketId" : "string",
    "flowId" : "string",
    "version" : 0,
    "latest" : true
},
"variables" : {
    "string" : "string"
},
"parameterContextName" : "string",
"defaultFlowFileExpiration" : "string",
"defaultBackPressureObjectThreshold" : 0,
"defaultBackPressureDataSizeThreshold" : "string",
"flowFileConcurrency" : "string",
"flowFileOutboundPolicy" : "string",
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"remoteProcessGroups" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
        "x" : 0.0,
        "y" : 0.0
    },
    "targetUri" : "string",
    "targetUris" : "string",
    "communicationsTimeout" : "string",
    "yieldDuration" : "string",
    "transportProtocol" : "string",
    "localNetworkInterface" : "string",
    "proxyHost" : "string",
    "proxyPort" : 0,
    "proxyUser" : "string",
    "inputPorts" : [ {
        "identifier" : "string",
        "name" : "string",
        "comments" : "string",
        "position" : {
            "x" : 0.0,
            "y" : 0.0
        },
    },
    "remoteGroupId" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "useCompression" : true,
    "batchSize" : {
        "count" : 0,
        "size" : "string",
    }
} ]

```

```

    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"outputPorts" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "remoteGroupId" : "string",
  "concurrentlySchedulableTaskCount" : 0,
  "useCompression" : true,
  "batchSize" : {
    "count" : 0,
    "size" : "string",
    "duration" : "string"
  },
  "componentType" : "string",
  "targetId" : "string",
  "scheduledState" : "string",
  "groupIdentifier" : "string"
} ],
"componentType" : "string",
"groupIdentifier" : "string"
} ],
"processors" : [ {
  "identifier" : "string",
  "name" : "string",
  "comments" : "string",
  "position" : {
    "x" : 0.0,
    "y" : 0.0
  },
  "bundle" : {
    "group" : "string",
    "artifact" : "string",
    "version" : "string"
  },
  "style" : {
    "string" : "string"
  },
  "type" : "string",
  "properties" : {
    "string" : "string"
  },
  "propertyDescriptors" : {
    "string" : "<<_versionedpropertydescriptor>>"
  },
  "annotationData" : "string",
  "schedulingPeriod" : "string",
  "schedulingStrategy" : "string",
  "executionNode" : "string",
  "penaltyDuration" : "string",
  "yieldDuration" : "string",
  "bulletinLevel" : "string",
  "runDurationMillis" : 0,
  "concurrentlySchedulableTaskCount" : 0,
  "autoTerminatedRelationships" : [ "string" ],

```

```

    "scheduledState" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "inputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "outputPorts" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "type" : "string",
    "concurrentlySchedulableTaskCount" : 0,
    "scheduledState" : "string",
    "allowRemoteAccess" : true,
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "connections" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
      "x" : 0.0,
      "y" : 0.0
    },
    "source" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "destination" : {
      "id" : "string",
      "type" : "string",
      "groupId" : "string",
      "name" : "string",
      "comments" : "string"
    },
    "labelIndex" : 0,
    "zIndex" : 0,
    "selectedRelationships" : [ "string" ],
    "backPressureObjectThreshold" : 0,
    "backPressureDataSizeThreshold" : "string",
    "flowFileExpiration" : "string",
    "prioritizers" : [ "string" ],
    "bends" : [ {

```

```

        "x" : 0.0,
        "y" : 0.0
    } ],
    "loadBalanceStrategy" : "string",
    "partitioningAttribute" : "string",
    "loadBalanceCompression" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
} ],
"labels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
        "x" : 0.0,
        "y" : 0.0
    },
    "label" : "string",
    "width" : 0.0,
    "height" : 0.0,
    "style" : {
        "string" : "string"
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
} ],
"funnels" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
        "x" : 0.0,
        "y" : 0.0
    },
    "componentType" : "string",
    "groupIdentifier" : "string"
} ],
"controllerServices" : [ {
    "identifier" : "string",
    "name" : "string",
    "comments" : "string",
    "position" : {
        "x" : 0.0,
        "y" : 0.0
    },
    "type" : "string",
    "bundle" : {
        "group" : "string",
        "artifact" : "string",
        "version" : "string"
    },
    "controllerServiceApis" : [ {
        "type" : "string",
        "bundle" : {
            "group" : "string",
            "artifact" : "string",
            "version" : "string"
        }
    } ],
    "properties" : {
        "string" : "string"
    },
    "propertyDescriptors" : {
        "string" : "<<_versionedpropertydescriptor>>"
    }
} ],

```

```

    },
    "annotationData" : "string",
    "componentType" : "string",
    "groupIdentifier" : "string"
  } ],
  "versionedFlowCoordinates" : {
    "registryUrl" : "string",
    "bucketId" : "string",
    "flowId" : "string",
    "version" : 0,
    "latest" : true
  },
  "variables" : {
    "string" : "string"
  },
  "parameterContextName" : "string",
  "defaultFlowFileExpiration" : "string",
  "defaultBackPressureObjectThreshold" : 0,
  "defaultBackPressureDataSizeThreshold" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "string",
  "componentType" : "string",
  "groupIdentifier" : "string"
},
"externalControllerServices" : {
  "string" : "<<_externalcontrollerservicereference>>"
},
"parameterContexts" : {
  "string" : "<<_versionedparametercontext>>"
},
"flowEncodingVersion" : "string",
"flow" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  },
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "versionCount" : 0,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
},
"bucket" : {
  "link" : {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  }
}

```

```

    },
    "identifier" : "string",
    "name" : "string",
    "createdTimestamp" : 0,
    "description" : "string",
    "allowBundleRedeploy" : true,
    "allowPublicRead" : true,
    "permissions" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  },
  "latest" : true
}

```

3.10. Items

Retrieve items across all buckets for which the user is authorized.

3.10.1. Get all items

```
GET /items
```

Description

Get items across all buckets. The returned items will include only items from buckets for which the user is authorized. If the user is not authorized to any buckets, an empty list will be returned.

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.7. BucketItem on page 236 > array
401	Client could not be authenticated.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/items
```

Example HTTP response

```

    [ {
      "link" : {
        "href" : "string",
        "params" : {
          "string" : "string"
        }
      },
      "identifier" : "string",
      "name" : "string",
      "description" : "string",
      "bucketIdentifier" : "string",
      "bucketName" : "string",
      "createdTimestamp" : 0,
      "modifiedTimestamp" : 0,
      "type" : "string",
      "permissions" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    } ]

```

3.10.2. Get item fields

```
GET /items/fields
```

Description

Retrieves the item field names for searching or sorting on bucket items.

Responses

HTTP Code	Description	Schema
200	successful operation	4.34. Fields on page 246

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/items/fields
```

Example HTTP response

```
{
  "fields" : [ "string" ]
}
```

3.10.3. Get bucket items

```
GET /items/{bucketId}
```

Description

Gets the items located in the given bucket.

Parameters

Type	Name	Description	Schema
Path	bucketId required	The bucket identifier	string

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.7. BucketItem on page 236 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/items/string
```

Example HTTP response

```
{
  "link" : [ {
    "href" : "string",
    "params" : {
      "string" : "string"
    }
  } ],
  "identifier" : "string",
  "name" : "string",
  "description" : "string",
  "bucketIdentifier" : "string",
  "bucketName" : "string",
  "createdTimestamp" : 0,
  "modifiedTimestamp" : 0,
  "type" : "string",
  "permissions" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
}
```

3.11. Policies

Endpoint for managing access policies.

3.11.1. Create access policy

```
POST /policies
```

Parameters

Type	Name	Description	Schema
Body	body required	The access policy configuration details.	4.1. AccessPolicy on page 234

Responses

HTTP Code	Description	Schema
200	successful operation	4.1. AccessPolicy on page 234
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content

HTTP Code	Description	Schema
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid. The NiFi Registry might not be configured to use a ConfigurableAccessPolicyProvider.	No Content

Consumes

- application/json

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/policies
```

```
{
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "users" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "tenants" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "policies" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "proxy" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    }
  }
],
}
```

```

    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"userGroups" : [ {
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
}

```

```

    } ],
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ]
}

```

Example HTTP response

```

{
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "users" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "tenants" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "policies" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "proxy" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "anyTopLevelResource" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    }
  } ],
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ]
}

```

```

    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"userGroups" : [ {
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
} ]
}

```

3.11.2. Get all access policies

```
GET /policies
```

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.1. AccessPolicy on page 234 > array
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/policies
```

Example HTTP response

```
[ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "users" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "tenants" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    }
  }
},
  ]
```

```

    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
],
"userGroups" : [ {
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  }
} ],

```

```

    "accessPolicies" : [ {
      "identifier" : "string",
      "resource" : "string",
      "action" : "string",
      "configurable" : true,
      "revision" : {
        "clientId" : "string",
        "version" : 0,
        "lastModifier" : "string"
      }
    } ],
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ]
} ]

```

3.11.3. Get available resources

```
GET /policies/resources
```

Description

Gets the available resources that support access/authorization policies

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.42. Resource on page 248 > array
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/policies/resources
```

Example HTTP response

```
[ {
  "identifier" : "string",
  "name" : "string"
} ]
```

3.11.4. Get access policy for resource

```
GET /policies/{action}/{resource}
```

Description

Gets an access policy for the specified action and resource

Parameters

Type	Name	Description	Schema
Path	action required	The request action.	enum (read, write, delete)
Path	resource required	The resource of the policy.	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.1. AccessPolicy on page 234
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/policies/string/string
```

Example HTTP response

```

    {
      "identifier" : "string",
      "resource" : "string",
      "action" : "string",
      "configurable" : true,
      "revision" : {
        "clientId" : "string",
        "version" : 0,
        "lastModifier" : "string"
      },
      "users" : [ {
        "identifier" : "string",
        "identity" : "string",
        "configurable" : true,
        "resourcePermissions" : {
          "buckets" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
          },
          "tenants" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
          },
          "policies" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
          },
          "proxy" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
          },
          "anyTopLevelResource" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
          }
        }
      } ],
      "accessPolicies" : [ {
        "identifier" : "string",
        "resource" : "string",
        "action" : "string",
        "configurable" : true,
        "revision" : {
          "clientId" : "string",
          "version" : 0,
          "lastModifier" : "string"
        }
      } ],
      "revision" : {
        "clientId" : "string",
        "version" : 0,
        "lastModifier" : "string"
      }
    } ],
    "userGroups" : [ {
      "identifier" : "string",

```

```

"identity" : "string",
"configurable" : true,
"resourcePermissions" : {
  "buckets" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "tenants" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "policies" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "proxy" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "anyTopLevelResource" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
} ]
}

```

3.11.5. Get access policy

```
GET /policies/{id}
```

Parameters

Type	Name	Description	Schema
Path	id required	The access policy id.	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.1. AccessPolicy on page 234
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/policies/string
```

Example HTTP response

```
{
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "users" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "tenants" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    }
  },
  "policies" : {
    "canRead" : true,
```

```

        "canWrite" : true,
        "canDelete" : true
    },
    "proxy" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
    },
    "anyTopLevelResource" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
    }
},
"accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
        "clientId" : "string",
        "version" : 0,
        "lastModifier" : "string"
    }
} ],
"revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
}
} ],
"userGroups" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
        "buckets" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
        },
        "tenants" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
        },
        "policies" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
        },
        "proxy" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
        },
        "anyTopLevelResource" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
        }
    }
},
"accessPolicies" : [ {
    "identifier" : "string",

```

```

    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ]
}

```

3.11.6. Update access policy

```
PUT /policies/{id}
```

Parameters

Type	Name	Description	Schema
Path	id required	The access policy id.	string
Body	body required	The access policy configuration details.	4.1. AccessPolicy on page 234

Responses

HTTP Code	Description	Schema
200	successful operation	4.1. AccessPolicy on page 234
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid. The NiFi Registry might not be configured to use a ConfigurableAccessPolicyProvider.	No Content

Consumes

- application/json

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/policies/string
```

```
{
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "users" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "tenants" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "policies" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "proxy" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "anyTopLevelResource" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    }
  } ],
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ]
}
```

```

    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "userGroups" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "tenants" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "policies" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "proxy" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "anyTopLevelResource" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ]
}

```

Example HTTP response

```

{
  "identifier" : "string",
  "resource" : "string",

```

```

"action" : "string",
"configurable" : true,
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
},
"users" : [ {
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
} ],
"userGroups" : [ {
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  }
} ]

```

```

    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ]
}

```

3.11.7. Delete access policy

```
DELETE /policies/{id}
```

Parameters

Type	Name	Description	Schema
Path	id required	The access policy id.	string
Query	clientId optional	If the client id is not specified, new one will be generated. This value (whether specified or generated) is included in the response.	string
Query	version required	The version is used to verify the client is working with the latest version of the entity.	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.1. AccessPolicy on page 234
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid. The NiFi Registry might not be configured to use a ConfigurableAccessPolicyProvider.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/policies/string
```

```
{
  "clientId" : "string",
  "version" : "string"
}
```

Example HTTP response

```
{
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "users" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
```

```

    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "tenants" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "policies" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "proxy" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "anyTopLevelResource" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
} ],
"userGroups" : [ {
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,

```

```

    "canWrite" : true,
    "canDelete" : true
  },
  "anyTopLevelResource" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
} ]
}
}

```

3.12. Tenants

Endpoint for managing users and user groups.

3.12.1. Create user group

POST /tenants/user-groups

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Body	body required	The user group configuration details.	4.52. UserGroup on page 251

Responses

HTTP Code	Description	Schema
200	successful operation	4.52. UserGroup on page 251
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content

HTTP Code	Description	Schema
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- application/json

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/tenants/user-groups
```

```
{
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  }
},
```

```

"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
},
"users" : [ {
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  }
} ],
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
} ]

```

}

Example HTTP response

```

    {
      "identifier" : "string",
      "identity" : "string",
      "configurable" : true,
      "resourcePermissions" : {
        "buckets" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "tenants" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "policies" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "proxy" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "anyTopLevelResource" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        }
      }
    },
    "accessPolicies" : [ {
      "identifier" : "string",
      "resource" : "string",
      "action" : "string",
      "configurable" : true,
      "revision" : {
        "clientId" : "string",
        "version" : 0,
        "lastModifier" : "string"
      }
    } ],
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    },
    "users" : [ {
      "identifier" : "string",
      "identity" : "string",
      "configurable" : true,
      "resourcePermissions" : {
        "buckets" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },

```

```

    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ]
}

```

3.12.2. Get user groups

```
GET /tenants/user-groups
```

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.52. UserGroup on page 251 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content

HTTP Code	Description	Schema
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/tenants/user-groups
```

Example HTTP response

```
[ {
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  }
}
```

```

    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "users" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "tenants" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "policies" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "proxy" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "anyTopLevelResource" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    }
  } ],
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }

```


Example HTTP response

```

    {
      "identifier" : "string",
      "identity" : "string",
      "configurable" : true,
      "resourcePermissions" : {
        "buckets" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "tenants" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "policies" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "proxy" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "anyTopLevelResource" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        }
      }
    },
    "accessPolicies" : [ {
      "identifier" : "string",
      "resource" : "string",
      "action" : "string",
      "configurable" : true,
      "revision" : {
        "clientId" : "string",
        "version" : 0,
        "lastModifier" : "string"
      }
    } ],
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    },
    "users" : [ {
      "identifier" : "string",
      "identity" : "string",
      "configurable" : true,
      "resourcePermissions" : {
        "buckets" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "tenants" : {
          "canRead" : true,
          "canWrite" : true,

```

```

    "canDelete" : true
  },
  "policies" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "proxy" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "anyTopLevelResource" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
} ]
}

```

3.12.4. Update user group

```
PUT /tenants/user-groups/{id}
```

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	id required	The user group id.	string
Body	body required	The user group configuration details.	4.52. UserGroup on page 251

Responses

HTTP Code	Description	Schema
200	successful operation	4.52. UserGroup on page 251
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- application/json

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/tenants/user-groups/string
```

```
{
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  }
}
```

```

    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "users" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "tenants" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "policies" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "proxy" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "anyTopLevelResource" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    }
  } ],
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
} ],

```

```

    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ]
}

```

Example HTTP response

```

{
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "users" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,

```

```

"resourcePermissions" : {
  "buckets" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "tenants" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "policies" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "proxy" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "anyTopLevelResource" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
} ]
}

```

3.12.5. Delete user group

```
DELETE /tenants/user-groups/{id}
```

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	id required	The user group id.	string
Query	clientId optional	If the client id is not specified, new one will be generated. This value (whether specified or generated) is included in the response.	string
Query	version required	The version is used to verify the client is working with the latest version of the entity.	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.52. UserGroup on page 251
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/tenants/user-groups/string
```

```
{
  "clientId" : "string",
  "version" : "string"
}
```

Example HTTP response

```

    {
      "identifier" : "string",
      "identity" : "string",
      "configurable" : true,
      "resourcePermissions" : {
        "buckets" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "tenants" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "policies" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "proxy" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "anyTopLevelResource" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        }
      }
    },
    "accessPolicies" : [ {
      "identifier" : "string",
      "resource" : "string",
      "action" : "string",
      "configurable" : true,
      "revision" : {
        "clientId" : "string",
        "version" : 0,
        "lastModifier" : "string"
      }
    } ],
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    },
    "users" : [ {
      "identifier" : "string",
      "identity" : "string",
      "configurable" : true,
      "resourcePermissions" : {
        "buckets" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "tenants" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "policies" : {
          "canRead" : true,

```

```

        "canWrite" : true,
        "canDelete" : true
    },
    "proxy" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
    },
    "anyTopLevelResource" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
    }
},
"accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
        "clientId" : "string",
        "version" : 0,
        "lastModifier" : "string"
    }
} ],
"revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
}
} ]
}

```

3.12.6. Create user

POST /tenants/users

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Body	body required	The user configuration details.	4.51. User on page 251

Responses

HTTP Code	Description	Schema
200	successful operation	4.51. User on page 251
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content

HTTP Code	Description	Schema
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- application/json

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/tenants/users
```

```
{
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
```

```

    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "userGroups" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "tenants" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "policies" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "proxy" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "anyTopLevelResource" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    }
  } ],
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ]
}

```

Example HTTP response

```

    {
      "identifier" : "string",
      "identity" : "string",
      "configurable" : true,
      "resourcePermissions" : {
        "buckets" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "tenants" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "policies" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "proxy" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "anyTopLevelResource" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        }
      },
      "accessPolicies" : [ {
        "identifier" : "string",
        "resource" : "string",
        "action" : "string",
        "configurable" : true,
        "revision" : {
          "clientId" : "string",
          "version" : 0,
          "lastModifier" : "string"
        }
      } ],
      "revision" : {
        "clientId" : "string",
        "version" : 0,
        "lastModifier" : "string"
      },
      "userGroups" : [ {
        "identifier" : "string",
        "identity" : "string",
        "configurable" : true,
        "resourcePermissions" : {
          "buckets" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
          },
          "tenants" : {

```

```

    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "policies" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "proxy" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "anyTopLevelResource" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
} ]
}

```

3.12.7. Get all users

```
GET /tenants/users
```

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Responses

HTTP Code	Description	Schema
200	successful operation	< 4.51. User on page 251 > array
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content

HTTP Code	Description	Schema
403	Client is not authorized to make this request.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/tenants/users
```

Example HTTP response

```
[ {
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
```

```

    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "userGroups" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "tenants" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "policies" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "proxy" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "anyTopLevelResource" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ]
} ]

```

3.12.8. Get user

```
GET /tenants/users/{id}
```

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	id required	The user id.	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.51. User on page 251
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/tenants/users/string
```

Example HTTP response

```
{
```

```

"identifier" : "string",
"identity" : "string",
"configurable" : true,
"resourcePermissions" : {
  "buckets" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "tenants" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "policies" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "proxy" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "anyTopLevelResource" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
},
"userGroups" : [ {
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,

```

```

    "canDelete" : true
  },
  "proxy" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "anyTopLevelResource" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
} ]
}

```

3.12.9. Update user

```
PUT /tenants/users/{id}
```

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	id required	The user id.	string
Body	body required	The user configuration details.	4.51. User on page 251

Responses

HTTP Code	Description	Schema
200	successful operation	4.51. User on page 251
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content

HTTP Code	Description	Schema
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- application/json

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/tenants/users/string
```

```
{
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
```

```

    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  },
  "userGroups" : [ {
    "identifier" : "string",
    "identity" : "string",
    "configurable" : true,
    "resourcePermissions" : {
      "buckets" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "tenants" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "policies" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "proxy" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      },
      "anyTopLevelResource" : {
        "canRead" : true,
        "canWrite" : true,
        "canDelete" : true
      }
    }
  } ],
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ]
}

```

Example HTTP response

```

    {
      "identifier" : "string",
      "identity" : "string",
      "configurable" : true,
      "resourcePermissions" : {
        "buckets" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "tenants" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "policies" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "proxy" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        },
        "anyTopLevelResource" : {
          "canRead" : true,
          "canWrite" : true,
          "canDelete" : true
        }
      },
      "accessPolicies" : [ {
        "identifier" : "string",
        "resource" : "string",
        "action" : "string",
        "configurable" : true,
        "revision" : {
          "clientId" : "string",
          "version" : 0,
          "lastModifier" : "string"
        }
      } ],
      "revision" : {
        "clientId" : "string",
        "version" : 0,
        "lastModifier" : "string"
      },
      "userGroups" : [ {
        "identifier" : "string",
        "identity" : "string",
        "configurable" : true,
        "resourcePermissions" : {
          "buckets" : {
            "canRead" : true,
            "canWrite" : true,
            "canDelete" : true
          },
          "tenants" : {

```

```

    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "policies" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "proxy" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "anyTopLevelResource" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
}
} ]
}

```

3.12.10. Delete user

```
DELETE /tenants/users/{id}
```

Description



Note: This endpoint is subject to change as NiFi Registry and its REST API evolve.

Parameters

Type	Name	Description	Schema
Path	id required	The user id.	string
Query	clientId optional	If the client id is not specified, new one will be generated. This value (whether specified or generated) is included in the response.	string

Type	Name	Description	Schema
Query	version required	The version is used to verify the client is working with the latest version of the entity.	string

Responses

HTTP Code	Description	Schema
200	successful operation	4.51. User on page 251
400	NiFi Registry was unable to complete the request because it was invalid. The request should not be retried without modification.	No Content
401	Client could not be authenticated.	No Content
403	Client is not authorized to make this request.	No Content
404	The specified resource could not be found.	No Content
409	NiFi Registry was unable to complete the request because it assumes a server state that is not valid.	No Content

Consumes

- /

Produces

- application/json

Security

Type	Name
apiKey	2.1. Authorization on page 7

Example HTTP request

```
/tenants/users/string
```

```
{
  "clientId" : "string",
  "version" : "string"
}
```

Example HTTP response

```
{
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,

```

```

    "canDelete" : true
  },
  "tenants" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "policies" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "proxy" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  },
  "anyTopLevelResource" : {
    "canRead" : true,
    "canWrite" : true,
    "canDelete" : true
  }
},
"accessPolicies" : [ {
  "identifier" : "string",
  "resource" : "string",
  "action" : "string",
  "configurable" : true,
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ],
"revision" : {
  "clientId" : "string",
  "version" : 0,
  "lastModifier" : "string"
},
"userGroups" : [ {
  "identifier" : "string",
  "identity" : "string",
  "configurable" : true,
  "resourcePermissions" : {
    "buckets" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "tenants" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "policies" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    },
    "proxy" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  }
} ],

```

```

    "anyTopLevelResource" : {
      "canRead" : true,
      "canWrite" : true,
      "canDelete" : true
    }
  },
  "accessPolicies" : [ {
    "identifier" : "string",
    "resource" : "string",
    "action" : "string",
    "configurable" : true,
    "revision" : {
      "clientId" : "string",
      "version" : 0,
      "lastModifier" : "string"
    }
  } ],
  "revision" : {
    "clientId" : "string",
    "version" : 0,
    "lastModifier" : "string"
  }
} ] ]
}

```

4. Definitions

4.1. AccessPolicy

Name	Description	Schema
action required	The action associated with this access policy. Example : "string"	enum (read, write, delete)
configurable optional read-only	Indicates if this access policy is configurable, based on which Authorizer has been configured to manage it. Example : true	boolean
identifier optional read-only	The id of the policy. Set by server at creation time. Example : "string"	string
resource required	The resource for this access policy. Example : "string"	string
revision optional	The revision of this entity used for optimistic-locking during updates. Example : "4.46. RevisionInfo on page 250"	4.46. RevisionInfo on page 250
userGroups optional	The set of user group IDs associated with this access policy. Example : ["4.50. Tenant on page 250"]	< 4.50. Tenant on page 250 > array
users optional	The set of user IDs associated with this access policy. Example : ["4.50. Tenant on page 250"]	< 4.50. Tenant on page 250 > array

4.2. AccessPolicySummary

Name	Description	Schema
action required	The action associated with this access policy.Example : "string"	enum (read, write, delete)
configurable optional read-only	Indicates if this access policy is configurable, based on which Authorizer has been configured to manage it.Example : true	boolean
identifier optional read-only	The id of the policy. Set by server at creation time.Example : "string"	string
resource required	The resource for this access policy.Example : "string"	string
revision optional	The revision of this entity used for optimistic-locking during updates.Example : "4.46. RevisionInfo on page 250"	4.46. RevisionInfo on page 250

4.3. AllowableValue

Name	Description	Schema
description optional	The description of the allowable valueExample : "string"	string
displayName optional	The display name of the allowable valueExample : "string"	string
value optional	The value of the allowable valueExample : "string"	string

4.4. Attribute

Name	Description	Schema
description optional	The description of the attributeExample : "string"	string
name optional	The name of the attributeExample : "string"	string

4.5. BatchSize

Name	Description	Schema
count optional	Preferred number of flow files to include in a transaction.Example : 0	integer (int32)
duration optional	Preferred amount of time that a transaction should span.Example : "string"	string
size optional	Preferred number of bytes to include in a transaction.Example : "string"	string

4.6. Bucket

Name	Description	Schema
allowBundleRedeploy optional	Indicates if this bucket allows the same version of an extension bundle to be redeployed and thus overwrite the existing artifact. By default this is false.Example : true	boolean
allowPublicRead optional	Indicates if this bucket allows read access to unauthenticated anonymous usersExample : true	boolean
createdTimestamp optional read-only	The timestamp of when the bucket was first created. This is set by the server at creation time.Minimum value : 1 Example : 0	integer (int64)
description optional	A description of the bucket.Example : "string"	string
identifier optional read-only	An ID to uniquely identify this object.Example : "string"	string
link optional	An WebLink to this entity.Example : " 4.35. JaxbLink on page 246 "	4.35. JaxbLink on page 246
name required	The name of the bucket.Example : "string"	string
permissions optional	The access that the current user has to this bucket.Example : " 4.36. Permissions on page 247 "	4.36. Permissions on page 247
revision optional	The revision of this entity used for optimistic-locking during updates.Example : " 4.46. RevisionInfo on page 250 "	4.46. RevisionInfo on page 250

4.7. BucketItem

Name	Description	Schema
bucketIdentifier required	The identifier of the bucket this items belongs to. This cannot be changed after the item is created.Example : "string"	string
bucketName optional read-only	The name of the bucket this items belongs to.Example : "string"	string
createdTimestamp optional read-only	The timestamp of when the item was created, as milliseconds since epoch.Minimum value : 1 Example : 0	integer (int64)
description optional	A description of the item.Example : "string"	string
identifier optional read-only	An ID to uniquely identify this object.Example : "string"	string
link optional	An WebLink to this entity.Example : " 4.35. JaxbLink on page 246 "	4.35. JaxbLink on page 246
modifiedTimestamp optional read-only	The timestamp of when the item was last modified, as milliseconds since epoch.Minimum value : 1 Example : 0	integer (int64)
name required	The name of the item.Example : "string"	string

Name	Description	Schema
permissions optional	The access that the current user has to the bucket containing this item.Example : "4.36. Permissions on page 247"	4.36. Permissions on page 247
type required	The type of item.Example : "string"	enum (Flow, Bundle)

4.8. BuildInfo

Name	Description	Schema
buildBranch optional	The branch used to build the version of the bundleExample : "string"	string
buildFlags optional	The flags used to build the version of the bundleExample : "string"	string
buildRevision optional	The revision used to build the version of the bundleExample : "string"	string
buildTag optional	The tag used to build the version of the bundleExample : "string"	string
buildTool optional	The tool used to build the version of the bundleExample : "string"	string
built optional	The timestamp the version of the bundle was builtExample : 0	integer (int64)
builtBy optional	The identity of the user that performed the buildExample : "string"	string

4.9. Bundle

Name	Description	Schema
artifact optional	The artifact of the bundleExample : "string"	string
group optional	The group of the bundleExample : "string"	string
version optional	The version of the bundleExample : "string"	string

4.10. BundleInfo

Name	Description	Schema
artifactId optional	The artifact id of the bundleExample : "string"	string
bucketId optional	The id of the bucket where the bundle is locatedExample : "string"	string
bucketName optional	The name of the bucket where the bundle is locatedExample : "string"	string
bundleId optional	The id of the bundleExample : "string"	string
bundleType optional	The type of bundle (i.e. a NiFi NAR vs MiNiFi CPP)Example : "string"	enum (NIFI_NAR, MINIFI_CPP)

Name	Description	Schema
groupId optional	The group id of the bundleExample : "string"	string
systemApiVersion optional	The version of the system API the bundle was built againstExample : "string"	string
version optional	The version of the bundleExample : "string"	string

4.11. BundleVersion

Name	Description	Schema
bucket optional	The bucket that the extension bundle belongs toExample : "4.6. Bucket on page 236"	4.6. Bucket on page 236
bundle optional	The bundle this version is forExample : "4.24. ExtensionBundle on page 243"	4.24. ExtensionBundle on page 243
dependencies optional	The set of other bundle versions that this version is dependent onExample : ["4.12. BundleVersionDependency on page 238"]	< 4.12. BundleVersionDependency on page 238 > array
filename optional	Example : "string"	string
link optional	An WebLink to this entity.Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246
versionMetadata required	The metadata about this version of the extension bundleExample : "4.13. BundleVersionMetadata on page 238"	4.13. BundleVersionMetadata on page 238

4.12. BundleVersionDependency

Name	Description	Schema
artifactId optional	The artifact id of the bundle dependencyExample : "string"	string
groupId optional	The group id of the bundle dependencyExample : "string"	string
version optional	The version of the bundle dependencyExample : "string"	string

4.13. BundleVersionMetadata

Name	Description	Schema
artifactId optional	Example : "string"	string
author optional	The identity that created this versionExample : "string"	string
bucketId required	The id of the bucket the extension bundle belongs toExample : "string"	string

Name	Description	Schema
buildInfo required	The build information about this version Example : "4.8. BuildInfo on page 237"	4.8. BuildInfo on page 237
bundleId optional	The id of the extension bundle this version is for Example : "string"	string
contentSize required	The size of the binary content for this version in bytes Minimum value : 0 Example : 0	integer (int64)
description optional	The description for this version Example : "string"	string
groupId optional	Example : "string"	string
id optional	The id of this version of the extension bundle Example : "string"	string
link optional	An WebLink to this entity. Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246
sha256 optional	The hex representation of the SHA-256 digest of the binary content for this version Example : "string"	string
sha256Supplied required	Whether or not the client supplied a SHA-256 when uploading the bundle Example : true	boolean
systemApiVersion optional	The version of the system API that this bundle version was built against Example : "string"	string
timestamp optional	The timestamp of the create date of this version Minimum value : 1 Example : 0	integer (int64)
version optional	The version of the extension bundle Example : "string"	string

4.14. ComponentDifference

Name	Description	Schema
changeDescription optional	The description of the change. Example : "string"	string
differenceType optional	The key to the difference. Example : "string"	string
differenceTypeDescription optional	The description of the change type. Example : "string"	string
valueA optional	The earlier value from the difference. Example : "string"	string
valueB optional	The newer value from the difference. Example : "string"	string

4.15. ComponentDifferenceGroup

Name	Description	Schema
componentId optional	The id of the component whose changes are grouped together.Example : "string"	string
componentName optional	The name of the component whose changes are grouped together.Example : "string"	string
componentType optional	The type of component these changes relate to.Example : "string"	string
differences optional	The list of changes related to this component between the 2 versions.Example : ["4.14. ComponentDifference on page 239"]	< 4.14. ComponentDifference on page 239 > array
processGroupId optional	The process group id for this component.Example : "string"	string

4.16. ConnectableComponent

Name	Description	Schema
comments optional	The comments for the connectable component.Example : "string"	string
groupId required	The id of the group that the connectable component resides inExample : "string"	string
id required	The id of the connectable component.Example : "string"	string
name optional	The name of the connectable componentExample : "string"	string
type required	The type of component the connectable is.Example : "string"	enum (PROCESSOR, REMOTE_INPUT_PORT, REMOTE_OUTPUT_PORT, INPUT_PORT, OUTPUT_PORT, FUNNEL)

4.17. ControllerServiceAPI

Name	Description	Schema
bundle optional	The details of the artifact that bundled this service interface.Example : "4.9. Bundle on page 237"	4.9. Bundle on page 237
type optional	The fully qualified name of the service interface.Example : "string"	string

4.18. ControllerServiceDefinition

Name	Description	Schema
artifactId optional	The artifact id of the service APIExample : "string"	string
className optional	The class name of the service APIExample : "string"	string

Name	Description	Schema
groupId optional	The group id of the service APIExample : "string"	string
version optional	The version of the service APIExample : "string"	string

4.19. CurrentUser

Name	Description	Schema
anonymous optional read-only	Indicates if the current user is anonymousExample : true	boolean
identity optional read-only	The identity of the current userExample : "string"	string
loginSupported optional	Indicates if the NiFi Registry instance supports logging inExample : true	boolean
oidcloginSupported optional	Indicates if the NiFi Registry instance supports logging in with an OIDC providerExample : true	boolean
resourcePermissions optional	The access that the current user has to top level resourcesExample : "4.43. ResourcePermissions on page 249"	4.43. ResourcePermissions on page 249

4.20. DeprecationNotice

Name	Description	Schema
alternatives optional	The alternatives to useExample : ["string"]	< string > array
reason optional	The reason for the deprecationExample : "string"	string

4.21. DynamicProperty

Name	Description	Schema
description optional	The description of the dynamic propertyExample : "string"	string
expressionLanguageScope optional	The scope of the expression language supportExample : "string"	enum (NONE, VARIABLE_REGISTRY, FLOWFILE_ATTRIBUTES)
expressionLanguageSupported optional	Whether or not expression language is supportedExample : true	boolean
name optional	The description of the dynamic property nameExample : "string"	string
value optional	The description of the dynamic property valueExample : "string"	string

4.22. DynamicRelationship

Name	Description	Schema
description optional	The description of the dynamic relationship Example : "string"	string
name optional	The description of the dynamic relationship nameExample : "string"	string

4.23. Extension

Name	Description	Schema
deprecationNotice optional	The deprecation notice of the extension Example : "4.20. DeprecationNotice on page 241"	4.20. DeprecationNotice on page 241
description optional	The description of the extension Example : "string"	string
dynamicProperties optional	The dynamic properties of the extension Example : ["4.21. DynamicProperty on page 241"]	< 4.21. DynamicProperty on page 241 > array
dynamicRelationship optional	The dynamic relationships of the extension Example : "4.22. DynamicRelationship on page 242"	4.22. DynamicRelationship on page 242
inputRequirement optional	The input requirement of the extension Example : "string"	enum (INPUT_REQUIRED, INPUT_ALLOWED, INPUT_FORBIDDEN)
name optional	The name of the extension Example : "string"	string
properties optional	The properties of the extension Example : ["4.38. Property on page 247"]	< 4.38. Property on page 247 > array
providedServiceAPIs optional	The service APIs provided by this extension Example : ["4.39. ProvidedServiceAPI on page 248"]	< 4.39. ProvidedServiceAPI on page 248 > array
readsAttributes optional	The attributes read from flow files by the extension Example : ["4.4. Attribute on page 235"]	< 4.4. Attribute on page 235 > array
relationships optional	The relationships of the extension Example : ["4.41. Relationship on page 248"]	< 4.41. Relationship on page 248 > array
restricted optional	The restrictions of the extension Example : "4.44. Restricted on page 249"	4.44. Restricted on page 249
seeAlso optional	The names of other extensions to see Example : ["string"]	< string > array
stateful optional	The information about how the extension stores state Example : "4.47. Stateful on page 250"	4.47. Stateful on page 250
systemResourceConsiderations optional	The resource considerations of the extension Example : ["4.48. SystemResourceConsideration on page 250"]	< 4.48. SystemResourceConsideration on page 250 > array

Name	Description	Schema
tags optional	The tags of the extensionExample : ["string"]	< string > array
type optional	The type of the extensionExample : "string"	enum (PROCESSOR, CONTROLLER_SERVICE, REPORTING_TASK)
writesAttributes optional	The attributes written to flow files by the extensionExample : ["4.4. Attribute on page 235"]	< 4.4. Attribute on page 235 > array

4.24. ExtensionBundle

Name	Description	Schema
artifactId optional	The artifact id of the extension bundleExample : "string"	string
bucketIdentifier required	The identifier of the bucket this items belongs to. This cannot be changed after the item is created.Example : "string"	string
bucketName optional read-only	The name of the bucket this items belongs to.Example : "string"	string
bundleType required	The type of the extension bundleExample : "string"	enum (NIFI_NAR, MINIFI_CPP)
createdTimestamp optional read-only	The timestamp of when the item was created, as milliseconds since epoch.Minimum value : 1 Example : 0	integer (int64)
description optional	A description of the item.Example : "string"	string
groupId optional	The group id of the extension bundleExample : "string"	string
identifier optional read-only	An ID to uniquely identify this object.Example : "string"	string
link optional	An WebLink to this entity.Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246
modifiedTimestamp optional read-only	The timestamp of when the item was last modified, as milliseconds since epoch.Minimum value : 1 Example : 0	integer (int64)
name required	The name of the item.Example : "string"	string
permissions optional	The access that the current user has to the bucket containing this item.Example : "4.36. Permissions on page 247"	4.36. Permissions on page 247
type required	The type of item.Example : "string"	enum (Flow, Bundle)
versionCount optional read-only	The number of versions of this extension bundle.Minimum value : 0 Example : 0	integer (int64)

4.25. ExtensionFilterParams

Name	Description	Schema
bundleType optional	The type of bundleExample : "string"	enum (NIFI_NAR, MINIFI_CPP)
extensionType optional	The type of extensionExample : "string"	enum (PROCESSOR, CONTROLLER_SERVICE, REPORTING_TASK)
tags optional	The tagsExample : ["string"]	< string > array

4.26. ExtensionMetadata

Name	Description	Schema
bundleInfo optional	The information for the bundle where this extension is locatedExample : " 4.10. BundleInfo on page 237"	4.10. BundleInfo on page 237
deprecationNotice optional	The deprecation notice of the extensionExample : " 4.20. DeprecationNotice on page 241"	4.20. DeprecationNotice on page 241
description optional	The description of the extensionExample : "string"	string
displayName optional	The display name of the extensionExample : "string"	string
hasAdditionalDetails optional	Whether or not the extension has additional detail documentationExample : true	boolean
link optional	An WebLink to this entity.Example : " 4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246
linkDocs optional	A WebLink to the documentation for this extension.Example : " 4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246
name optional	The name of the extensionExample : "string"	string
providedServiceAPIs optional	The service APIs provided by the extensionExample : [" 4.39. ProvidedServiceAPI on page 248"]	< 4.39. ProvidedServiceAPI on page 248 > array
restricted optional	The restrictions of the extensionExample : " 4.44. Restricted on page 249"	4.44. Restricted on page 249
tags optional	The tags of the extensionExample : ["string"]	< string > array
type optional	The type of the extensionExample : "string"	enum (PROCESSOR, CONTROLLER_SERVICE, REPORTING_TASK)

4.27. ExtensionMetadataContainer

Name	Description	Schema
extensions optional	The metadata for the extensionsExample : [" 4.27. ExtensionMetadataContainer on page 244"]	< 4.27. ExtensionMetadataContainer on page 244 > array

Name	Description	Schema
filterParams optional	The filter parameters submitted for the requestExample : "4.25. ExtensionFilterParams on page 243"	4.25. ExtensionFilterParams on page 243
numResults optional	The number of extensions in the responseExample : 0	integer (int32)

4.28. ExtensionRepoArtifact

Name	Description	Schema
artifactId optional	The artifact idExample : "string"	string
bucketName optional	The bucket nameExample : "string"	string
groupId optional	The group idExample : "string"	string
link optional	An WebLink to this entity.Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246

4.29. ExtensionRepoBucket

Name	Description	Schema
bucketName optional	The name of the bucketExample : "string"	string
link optional	An WebLink to this entity.Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246

4.30. ExtensionRepoGroup

Name	Description	Schema
bucketName optional	The bucket nameExample : "string"	string
groupId optional	The group idExample : "string"	string
link optional	An WebLink to this entity.Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246

4.31. ExtensionRepoVersion

Name	Description	Schema
downloadLink optional	The WebLink to download this version of the extension bundle.Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246
extensionsLink optional	The WebLink to view the metadata about the extensions contained in the extension bundle.Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246

Name	Description	Schema
sha256Link optional	The WebLink to retrieve the SHA-256 digest for this version of the extension bundle.Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246
sha256Supplied optional	Indicates if the client supplied a SHA-256 when uploading this version of the extension bundle.Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246

4.32. ExtensionRepoVersionSummary

Name	Description	Schema
artifactId optional	The artifact idExample : "string"	string
author optional	The identity of the user that created this versionExample : "string"	string
bucketName optional	The bucket nameExample : "string"	string
groupId optional	The group idExample : "string"	string
link optional	An WebLink to this entity.Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246
timestamp optional	The timestamp of when this version was createdExample : 0	integer (int64)
version optional	The versionExample : "string"	string

4.33. ExternalControllerServiceReference

Name	Description	Schema
identifier optional	The identifier of the controller serviceExample : "string"	string
name optional	The name of the controller serviceExample : "string"	string

4.34. Fields

Name	Description	Schema
fields optional	Example : ["string"]	< string > array

4.35. JaxbLink

Name	Description	Schema
href optional	The href for the linkExample : "string"	string (uri)

Name	Description	Schema
params optional	The params for the linkExample : { "string" : "string" }	< string, string > map

4.36. Permissions

Name	Description	Schema
canDelete optional read-only	Indicates whether the user can delete a given resource.Example : true	boolean
canRead optional read-only	Indicates whether the user can read a given resource.Example : true	boolean
canWrite optional read-only	Indicates whether the user can write a given resource.Example : true	boolean

4.37. Position

The position of a component on the graph

Name	Description	Schema
x optional	The x coordinate.Example : 0.0	number (double)
y optional	The y coordinate.Example : 0.0	number (double)

4.38. Property

Name	Description	Schema
allowableValues optional	The allowable values for this propertyExample : ["4.3. AllowableValue on page 235"]	< 4.3. AllowableValue on page 235 > array
controllerServiceDefinition optional	The controller service required by this property, or null if none is requiredExample : "4.18. ControllerServiceDefinition on page 240"	4.18. ControllerServiceDefinition on page 240
defaultValue optional	The default valueExample : "string"	string
description optional	The descriptionExample : "string"	string
displayName optional	The display nameExample : "string"	string
dynamic optional	Whether or not the processor is dynamicExample : true	boolean
dynamicallyModifiesClasspath optional	Whether or not the processor dynamically modifies the classpathExample : true	boolean
expressionLanguageScope optional	The scope of expression language supportExample : "string"	enum (NONE, VARIABLE_REGISTRY, FLOWFILE_ATTRIBUTES)
expressionLanguageSupported optional	Whether or not expression language is supportedExample : true	boolean

Name	Description	Schema
name optional	The name of the propertyExample : "string"	string
required optional	Whether or not the property is requiredExample : true	boolean
sensitive optional	Whether or not the property is sensitiveExample : true	boolean

4.39. ProvidedServiceAPI

Name	Description	Schema
artifactId optional	The artifact id of the service API being providedExample : "string"	string
className optional	The class name of the service API being providedExample : "string"	string
groupId optional	The group id of the service API being providedExample : "string"	string
version optional	The version of the service API being providedExample : "string"	string

4.40. RegistryConfiguration

Name	Description	Schema
supportsConfigurableAuthorizer optional read-only	Whether this NiFi Registry supports a configurable authorizer.Example : true	boolean
supportsConfigurableUsersAndGroups optional read-only	Whether this NiFi Registry supports configurable users and groups.Example : true	boolean
supportsManagedAuthorizer optional read-only	Whether this NiFi Registry supports a managed authorizer. Managed authorizers can visualize users, groups, and policies in the UI.Example : true	boolean

4.41. Relationship

Name	Description	Schema
autoTerminated optional	Whether or not the relationship is auto-terminated by defaultExample : true	boolean
description optional	The description of the relationshipExample : "string"	string
name optional	The name of the relationshipExample : "string"	string

4.42. Resource

Name	Description	Schema
identifier optional read-only	The identifier of the resource.Example : "string"	string
name optional read-only	The name of the resource.Example : "string"	string

4.43. ResourcePermissions

Name	Description	Schema
anyTopLevelResource optional	The access that the current user has to any top level resources (a logical 'OR' of all other values)Example : "4.36. Permissions on page 247"	4.36. Permissions on page 247
buckets optional	The access that the current user has to the top level /buckets resource of this NiFi Registry (i.e., access to all buckets)Example : "4.36. Permissions on page 247"	4.36. Permissions on page 247
policies optional	The access that the current user has to the top level /policies resource of this NiFi RegistryExample : "4.36. Permissions on page 247"	4.36. Permissions on page 247
proxy optional	The access that the current user has to the top level /proxy resource of this NiFi RegistryExample : "4.36. Permissions on page 247"	4.36. Permissions on page 247
tenants optional	The access that the current user has to the top level /tenants resource of this NiFi RegistryExample : "4.36. Permissions on page 247"	4.36. Permissions on page 247

4.44. Restricted

Name	Description	Schema
generalRestrictionExplanation optional	The general restriction for the extension, or null if only specific restrictions existExample : "string"	string
restrictions optional	The specific restrictionsExample : ["4.45. Restriction on page 249"]	< 4.45. Restriction on page 249 > array

4.45. Restriction

Name	Description	Schema
explanation optional	The explanation of this restrictionExample : "string"	string
requiredPermission optional	The permission required for this restrictionExample : "string"	string

4.46. RevisionInfo

The revision information for an entity managed through the REST API.

Name	Description	Schema
clientId optional	A client identifier used to make a request. By including a client identifier, the API can allow multiple requests without needing the current revision. Due to the asynchronous nature of requests/responses this was implemented to allow the client to make numerous requests without having to wait for the previous response to come back.Example : "string"	string
lastModifier optional read-only	The user that last modified the entity.Example : "string"	string
version optional	NiFi Registry employs an optimistic locking strategy where the client must include a revision in their request when performing an update. In a response to a mutable flow request, this field represents the updated base version.Example : 0	integer (int64)

4.47. Stateful

Name	Description	Schema
description optional	The description for how the extension stores stateExample : "string"	string
scopes optional	The scopes used to store stateExample : ["string"]	< enum (CLUSTER, LOCAL) > array

4.48. SystemResourceConsideration

Name	Description	Schema
description optional	The description of how the resource is affectedExample : "string"	string
resource optional	The resource to considerExample : "string"	string

4.49. TagCount

Name	Description	Schema
count optional	The number of occurrences of the given tagExample : 0	integer (int32)
tag optional	The tag labelExample : "string"	string

4.50. Tenant

Name	Description	Schema
accessPolicies optional	The access policies granted to this tenant.Example : ["4.1. AccessPolicy on page 234"]	< 4.1. AccessPolicy on page 234 > array
configurable optional read-only	Indicates if this tenant is configurable, based on which UserGroupProvider has been configured to manage it.Example : true	boolean
identifier optional read-only	The computer-generated identifier of the tenant.Example : "string"	string
identity required	The human-facing identity of the tenant. This can only be changed if the tenant is configurable.Example : "string"	string
resourcePermissions optional	A summary top-level resource access policies granted to this tenant.Example : "4.43. ResourcePermissions on page 249"	4.43. ResourcePermissions on page 249
revision optional	The revision of this entity used for optimistic-locking during updates.Example : "4.46. RevisionInfo on page 250"	4.46. RevisionInfo on page 250

4.51. User

Name	Description	Schema
accessPolicies optional	The access policies granted to this tenant.Example : ["4.2. AccessPolicySummary on page 235"]	< 4.2. AccessPolicySummary on page 235 > array
configurable optional read-only	Indicates if this tenant is configurable, based on which UserGroupProvider has been configured to manage it.Example : true	boolean
identifier optional read-only	The computer-generated identifier of the tenant.Example : "string"	string
identity required	The human-facing identity of the tenant. This can only be changed if the tenant is configurable.Example : "string"	string
resourcePermissions optional	A summary top-level resource access policies granted to this tenant.Example : "4.43. ResourcePermissions on page 249"	4.43. ResourcePermissions on page 249
revision optional	The revision of this entity used for optimistic-locking during updates.Example : "4.46. RevisionInfo on page 250"	4.46. RevisionInfo on page 250
userGroups optional	The groups to which the user belongs.Example : ["4.50. Tenant on page 250"]	< 4.50. Tenant on page 250 > array

4.52. UserGroup

Name	Description	Schema
accessPolicies optional	The access policies granted to this tenant.Example : ["4.2. AccessPolicySummary on page 235"]	< 4.2. AccessPolicySummary on page 235 > array

Name	Description	Schema
configurable optional read-only	Indicates if this tenant is configurable, based on which UserGroupProvider has been configured to manage it.Example : true	boolean
identifier optional read-only	The computer-generated identifier of the tenant.Example : "string"	string
identity required	The human-facing identity of the tenant. This can only be changed if the tenant is configurable.Example : "string"	string
resourcePermissions optional	A summary top-level resource access policies granted to this tenant.Example : "4.43. ResourcePermissions on page 249"	4.43. ResourcePermissions on page 249
revision optional	The revision of this entity used for optimistic-locking during updates.Example : "4.46. RevisionInfo on page 250"	4.46. RevisionInfo on page 250
users optional	The users that belong to this user group. This can only be changed if this group is configurable.Example : ["4.50. Tenant on page 250"]	< 4.50. Tenant on page 250 > array

4.53. VersionedConnection

Name	Description	Schema
backPressureDataSizeThreshold optional	The object data size threshold for determining when back pressure is applied. Updating this value is a passive change in the sense that it won't impact whether existing files over the limit are affected but it does help feeder processors to stop pushing too much into this work queue.Example : "string"	string
backPressureObjectThreshold optional	The object count threshold for determining when back pressure is applied. Updating this value is a passive change in the sense that it won't impact whether existing files over the limit are affected but it does help feeder processors to stop pushing too much into this work queue.Example : 0	integer (int64)
bends optional	The bend points on the connection.Example : ["4.37. Position on page 247"]	< 4.37. Position on page 247 > array
comments optional	The user-supplied comments for the componentExample : "string"	string
componentType optional	Example : "string"	enum (CONNECTION, PROCESSOR, PROCESS_GROUP, REMOTE_PROCESS_GROUP, INPUT_PORT, OUTPUT_PORT, REMOTE_INPUT_PORT, REMOTE_OUTPUT_PORT, FUNNEL, LABEL, CONTROLLER_SERVICE)
destination optional	The destination of the connection.Example : "4.16. ConnectableComponent on page 240"	4.16. ConnectableComponent on page 240

Name	Description	Schema
flowFileExpiration optional	The amount of time a flow file may be in the flow before it will be automatically aged out of the flow. Once a flow file reaches this age it will be terminated from the flow the next time a processor attempts to start work on it.Example : "string"	string
groupIdentifier optional	The ID of the Process Group that this component belongs toExample : "string"	string
identifier optional	The component's unique identifierExample : "string"	string
labelIndex optional	The index of the bend point where to place the connection label.Example : 0	integer (int32)
loadBalanceCompression optional	Whether or not compression should be used when transferring FlowFiles between nodesExample : "string"	enum (DO_NOT_COMPRESS, COMPRESS_ATTRIBUTES_ONLY, COMPRESS_ATTRIBUTES_AND_CONTENT)
loadBalanceStrategy optional	The Strategy to use for load balancing data across the cluster, or null, if no Load Balance Strategy has been specified.Example : "string"	enum (DO_NOT_LOAD_BALANCE, PARTITION_BY_ATTRIBUTE, ROUND_ROBIN, SINGLE_NODE)
name optional	The component's nameExample : "string"	string
partitioningAttribute optional	The attribute to use for partitioning data as it is load balanced across the cluster. If the Load Balance Strategy is configured to use PARTITION_BY_ATTRIBUTE, the value returned by this method is the name of the FlowFile Attribute that will be used to determine which node in the cluster should receive a given FlowFile. If the Load Balance Strategy is unset or is set to any other value, the Partitioning Attribute has no effect.Example : "string"	string
position optional	The component's position on the graphExample : "4.37. Position on page 247"	4.37. Position on page 247
prioritizers optional	The comparators used to prioritize the queue.Example : ["string"]	< string > array
selectedRelationships optional	The selected relationship that comprise the connection.Example : ["string"]	< string > array
source optional	The source of the connection.Example : "4.16. ConnectableComponent on page 240"	4.16. ConnectableComponent on page 240
zIndex optional	The z index of the connection.Example : 0	integer (int64)

4.54. VersionedControllerService

Name	Description	Schema
annotationData optional	The annotation for the controller service. This is how the custom UI relays configuration to the controller service.Example : "string"	string

Name	Description	Schema
bundle optional	The details of the artifact that bundled this processor type.Example : "4.9. Bundle on page 237"	4.9. Bundle on page 237
comments optional	The user-supplied comments for the componentExample : "string"	string
componentType optional	Example : "string"	enum (CONNECTION, PROCESSOR, PROCESS_GROUP, REMOTE_PROCESS_GROUP, INPUT_PORT, OUTPUT_PORT, REMOTE_INPUT_PORT, REMOTE_OUTPUT_PORT, FUNNEL, LABEL, CONTROLLER_SERVICE)
controllerServiceApis optional	Lists the APIs this Controller Service implements.Example : ["4.17. ControllerServiceAPI on page 240"]	< 4.17. ControllerServiceAPI on page 240 > array
groupIdIdentifier optional	The ID of the Process Group that this component belongs toExample : "string"	string
identifier optional	The component's unique identifierExample : "string"	string
name optional	The component's nameExample : "string"	string
position optional	The component's position on the graphExample : "4.37. Position on page 247"	4.37. Position on page 247
properties optional	The properties of the controller service.Example : { "string" : "string" }	< string, string > map
propertyDescriptors optional	The property descriptors for the processor.Example : { "string" : "4.67. VersionedPropertyDescriptor on page 262" }	< string, 4.67. VersionedPropertyDescriptor on page 262 > map
type optional	The type of the controller service.Example : "string"	string

4.55. VersionedFlow

Name	Description	Schema
bucketIdentifier required	The identifier of the bucket this items belongs to. This cannot be changed after the item is created.Example : "string"	string
bucketName optional read-only	The name of the bucket this items belongs to.Example : "string"	string
createdTimestamp optional read-only	The timestamp of when the item was created, as milliseconds since epoch.Minimum value : 1 Example : 0	integer (int64)
description optional	A description of the item.Example : "string"	string
identifier optional read-only	An ID to uniquely identify this object.Example : "string"	string

Name	Description	Schema
link optional	An WebLink to this entity.Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246
modifiedTimestamp optional read-only	The timestamp of when the item was last modified, as milliseconds since epoch.Minimum value : 1 Example : 0	integer (int64)
name required	The name of the item.Example : "string"	string
permissions optional	The access that the current user has to the bucket containing this item.Example : "4.36. Permissions on page 247"	4.36. Permissions on page 247
revision optional	The revision of this entity used for optimistic-locking during updates.Example : "4.46. RevisionInfo on page 250"	4.46. RevisionInfo on page 250
type required	The type of item.Example : "string"	enum (Flow, Bundle)
versionCount optional read-only	The number of versions of this flow.Minimum value : 0 Example : 0	integer (int64)

4.56. VersionedFlowCoordinates

Name	Description	Schema
bucketId optional	The UUID of the bucket that the flow resides in.Example : "string"	string
flowId optional	The UUID of the flow.Example : "string"	string
latest optional	Whether or not these coordinates point to the latest version of the flow.Example : true	boolean
registryUrl optional	The URL of the Flow Registry that contains the flow.Example : "string"	string
version optional	The version of the flow.Example : 0	integer (int32)

4.57. VersionedFlowDifference

Name	Description	Schema
bucketId optional	The id of the bucket that the flow is stored in.Example : "string"	string
componentDifferenceGroups optional	Example : ["4.15. ComponentDifferenceGroup on page 239"]	< 4.15. ComponentDifferenceGroup on page 239 > array
flowId optional	The id of the flow that is being examined.Example : "string"	string
versionA optional	The earlier version from the diff operation.Example : 0	integer (int32)
versionB optional	The latter version from the diff operation.Example : 0	integer (int32)

4.58. VersionedFlowSnapshot

Name	Description	Schema
bucket optional	The bucket where the flow is located Example : "4.6. Bucket on page 236"	4.6. Bucket on page 236
externalControllerServices optional	The information about controller services that exist outside this versioned flow, but are referenced by components within the versioned flow. Example : { "string" : "4.33. ExternalControllerServiceReference on page 246" }	< string, 4.33. ExternalControllerServiceReference on page 246 > map
flow optional	The flow this snapshot is for Example : "4.55. VersionedFlow on page 254"	4.55. VersionedFlow on page 254
flowContents required	The contents of the versioned flow Example : "4.65. VersionedProcessGroup on page 259"	4.65. VersionedProcessGroup on page 259
flowEncodingVersion optional	The optional encoding version of the flow contents. Example : "string"	string
latest optional	Example : true	boolean
parameterContexts optional	The parameter contexts referenced by process groups in the flow contents. The mapping is from the name of the context to the context instance, and it is expected that any context in this map is referenced by at least one process group in this flow. Example : { "string" : "4.63. VersionedParameterContext on page 258" }	< string, 4.63. VersionedParameterContext on page 258 > map
snapshotMetadata required	The metadata for this snapshot Example : "4.59. VersionedFlowSnapshotMetadata on page 256"	4.59. VersionedFlowSnapshotMetadata on page 256

4.59. VersionedFlowSnapshotMetadata

Name	Description	Schema
author optional read-only	The user that created this snapshot of the flow. Example : "string"	string
bucketIdentifier required	The identifier of the bucket this snapshot belongs to. Example : "string"	string
comments optional	The comments provided by the user when creating the snapshot. Example : "string"	string
flowIdentifier required	The identifier of the flow this snapshot belongs to. Example : "string"	string
link optional	An WebLink to this entity. Example : "4.35. JaxbLink on page 246"	4.35. JaxbLink on page 246
timestamp optional read-only	The timestamp when the flow was saved, as milliseconds since epoch. Minimum value : 1 Example : 0	integer (int64)
version required	The version of this snapshot of the flow. Minimum value : -1 Example : 0	integer (int32)

4.60. VersionedFunnel

Name	Description	Schema
comments optional	The user-supplied comments for the component Example : "string"	string
componentType optional	Example : "string"	enum (CONNECTION, PROCESSOR, PROCESS_GROUP, REMOTE_PROCESS_GROUP, INPUT_PORT, OUTPUT_PORT, REMOTE_INPUT_PORT, REMOTE_OUTPUT_PORT, FUNNEL, LABEL, CONTROLLER_SERVICE)
groupIdentifier optional	The ID of the Process Group that this component belongs to Example : "string"	string
identifier optional	The component's unique identifier Example : "string"	string
name optional	The component's name Example : "string"	string
position optional	The component's position on the graph Example : "4.37. Position on page 247"	4.37. Position on page 247

4.61. VersionedLabel

Name	Description	Schema
comments optional	The user-supplied comments for the component Example : "string"	string
componentType optional	Example : "string"	enum (CONNECTION, PROCESSOR, PROCESS_GROUP, REMOTE_PROCESS_GROUP, INPUT_PORT, OUTPUT_PORT, REMOTE_INPUT_PORT, REMOTE_OUTPUT_PORT, FUNNEL, LABEL, CONTROLLER_SERVICE)
groupIdentifier optional	The ID of the Process Group that this component belongs to Example : "string"	string
height optional	The height of the label in pixels when at a 1:1 scale. Example : 0.0	number (double)
identifier optional	The component's unique identifier Example : "string"	string
label optional	The text that appears in the label. Example : "string"	string
name optional	The component's name Example : "string"	string
position optional	The component's position on the graph Example : "4.37. Position on page 247"	4.37. Position on page 247
style optional	The styles for this label (font-size : 12px, background-color : #eee, etc). Example : { "string" : "string" }	< string, string > map

Name	Description	Schema
width optional	The width of the label in pixels when at a 1:1 scale.Example : 0.0	number (double)

4.62. VersionedParameter

Name	Description	Schema
description optional	The description of the paramExample : "string"	string
name optional	The name of the parameterExample : "string"	string
sensitive optional	Whether or not the parameter value is sensitiveExample : true	boolean
value optional	The value of the parameterExample : "string"	string

4.63. VersionedParameterContext

Name	Description	Schema
description optional	The description of the parameter contextExample : "string"	string
inheritedParameterContexts optional	The names of additional parameter contexts from which to inherit parametersExample : ["string"]	< string > array
name optional	The name of the contextExample : "string"	string
parameters optional	The parameters in the contextExample : ["4.62. VersionedParameter on page 258"]	< 4.62. VersionedParameter on page 258 > array

4.64. VersionedPort

Name	Description	Schema
allowRemoteAccess optional	Whether or not this port allows remote access for site-to-siteExample : true	boolean
comments optional	The user-supplied comments for the componentExample : "string"	string
componentType optional	Example : "string"	enum (CONNECTION, PROCESSOR, PROCESS_GROUP, REMOTE_PROCESS_GROUP, INPUT_PORT, OUTPUT_PORT, REMOTE_INPUT_PORT, REMOTE_OUTPUT_PORT, FUNNEL, LABEL, CONTROLLER_SERVICE)
concurrentlySchedulableTaskCount optional	The number of tasks that should be concurrently scheduled for the port.Example : 0	integer (int32)

Name	Description	Schema
groupIdentifier optional	The ID of the Process Group that this component belongs to Example : "string"	string
identifier optional	The component's unique identifier Example : "string"	string
name optional	The component's name Example : "string"	string
position optional	The component's position on the graph Example : "4.37. Position on page 247"	4.37. Position on page 247
scheduledState optional	The scheduled state of the component Example : "string"	enum (ENABLED, DISABLED)
type optional	The type of port. Example : "string"	enum (INPUT_PORT, OUTPUT_PORT)

4.65. VersionedProcessGroup

Name	Description	Schema
comments optional	The user-supplied comments for the component Example : "string"	string
componentType optional	Example : "string"	enum (CONNECTION, PROCESSOR, PROCESS_GROUP, REMOTE_PROCESS_GROUP, INPUT_PORT, OUTPUT_PORT, REMOTE_INPUT_PORT, REMOTE_OUTPUT_PORT, FUNNEL, LABEL, CONTROLLER_SERVICE)
connections optional	The Connections Example : [" 4.53. VersionedConnection on page 252"]	< 4.53. VersionedConnection on page 252 > array
controllerServices optional	The Controller Services Example : [" 4.54. VersionedControllerService on page 253"]	< 4.54. VersionedControllerService on page 253 > array
defaultBackPressureDataSizeThreshold optional	Default value used in this Process Group for the maximum data size of objects that can be queued before back pressure is applied. Example : "string"	string
defaultBackPressureObjectThreshold optional	Default value used in this Process Group for the maximum number of objects that can be queued before back pressure is applied. Example : 0	integer (int64)
defaultFlowFileExpiration optional	The default FlowFile Expiration for this Process Group. Example : "string"	string
flowFileConcurrency optional	The configured FlowFile Concurrency for the Process Group Example : "string"	string
flowFileOutboundPolicy optional	The FlowFile Outbound Policy for the Process Group Example : "string"	string
funnels optional	The Funnels Example : [" 4.60. VersionedFunnel on page 257"]	< 4.60. VersionedFunnel on page 257 > array
groupIdentifier optional	The ID of the Process Group that this component belongs to Example : "string"	string

Name	Description	Schema
identifier optional	The component's unique identifierExample : "string"	string
inputPorts optional	The Input PortsExample : ["4.64. VersionedPort on page 258"]	< 4.64. VersionedPort on page 258 > array
labels optional	The LabelsExample : ["4.61. VersionedLabel on page 257"]	< 4.61. VersionedLabel on page 257 > array
name optional	The component's nameExample : "string"	string
outputPorts optional	The Output PortsExample : ["4.64. VersionedPort on page 258"]	< 4.64. VersionedPort on page 258 > array
parameterContextName optional	The name of the parameter context used by this process groupExample : "string"	string
position optional	The component's position on the graphExample : "4.37. Position on page 247"	4.37. Position on page 247
processGroups optional	The child Process GroupsExample : ["4.65. VersionedProcessGroup on page 259"]	< 4.65. VersionedProcessGroup on page 259 > array
processors optional	The ProcessorsExample : ["4.66. VersionedProcessor on page 260"]	< 4.66. VersionedProcessor on page 260 > array
remoteProcessGroups optional	The Remote Process GroupsExample : ["4.69. VersionedRemoteProcessGroup on page 263"]	< 4.69. VersionedRemoteProcessGroup on page 263 > array
variables optional	The Variables in the Variable Registry for this Process Group (not including any ancestor or descendant Process Groups)Example : { "string" : "string" }	< string, string > map
versionedFlowCoordinates optional	The coordinates where the remote flow is stored, or null if the Process Group is not directly under Version ControlExample : "4.56. VersionedFlowCoordinates on page 255"	4.56. VersionedFlowCoordinates on page 255

4.66. VersionedProcessor

Name	Description	Schema
annotationData optional	The annotation data for the processor used to relay configuration between a custom UI and the procesosr.Example : "string"	string
autoTerminatedRelationships optional	The names of all relationships that cause a flow file to be terminated if the relationship is not connected elsewhere. This property differs from the 'isAutoTerminate' property of the RelationshipDTO in that the RelationshipDTO is meant to depict the current configuration, whereas this property can be set in a DTO when updating a Processor in order to change which Relationships should be auto-terminated.Example : ["string"]	< string > array
bulletinLevel optional	The level at which the processor will report bulletins.Example : "string"	string

Name	Description	Schema
bundle optional	Information about the bundle from which the component came Example : "4.9. Bundle on page 237"	4.9. Bundle on page 237
comments optional	The user-supplied comments for the component Example : "string"	string
componentType optional	Example : "string"	enum (CONNECTION, PROCESSOR, PROCESS_GROUP, REMOTE_PROCESS_GROUP, INPUT_PORT, OUTPUT_PORT, REMOTE_INPUT_PORT, REMOTE_OUTPUT_PORT, FUNNEL, LABEL, CONTROLLER_SERVICE)
concurrentlySchedulableTaskCount optional	The number of tasks that should be concurrently schedule for the processor. If the processor doesn't allow parallel processing then any positive input will be ignored. Example : 0	integer (int32)
executionNode optional	Indicates the node where the process will execute. Example : "string"	string
groupIdentifier optional	The ID of the Process Group that this component belongs to Example : "string"	string
identifier optional	The component's unique identifier Example : "string"	string
name optional	The component's name Example : "string"	string
penaltyDuration optional	The amount of time that is used when the process penalizes a flowfile. Example : "string"	string
position optional	The component's position on the graph Example : "4.37. Position on page 247"	4.37. Position on page 247
properties optional	The properties for the processor. Properties whose value is not set will only contain the property name. Example : { "string" : "string" }	< string, string > map
propertyDescriptors optional	The property descriptors for the processor. Example : { "string" : "4.67. VersionedPropertyDescriptor on page 262" }	< string, 4.67. VersionedPropertyDescriptor on page 262 > map
runDurationMillis optional	The run duration for the processor in milliseconds. Example : 0	integer (int64)
scheduledState optional	The scheduled state of the component Example : "string"	enum (ENABLED, DISABLED)
schedulingPeriod optional	The frequency with which to schedule the processor. The format of the value will depend on the value of schedulingStrategy. Example : "string"	string
schedulingStrategy optional	Indicates whether the processor should be scheduled to run in event or timer driven mode. Example : "string"	string
style optional	Stylistic data for rendering in a UI Example : { "string" : "string" }	< string, string > map

Name	Description	Schema
type optional	The type of ProcessorExample : "string"	string
yieldDuration optional	The amount of time that must elapse before this processor is scheduled again after yielding.Example : "string"	string

4.67. VersionedPropertyDescriptor

Name	Description	Schema
displayName optional	The display name of the propertyExample : "string"	string
identifiesControllerService optional	Whether or not the property provides the identifier of a Controller ServiceExample : true	boolean
name optional	The name of the propertyExample : "string"	string
resourceDefinition optional	Returns the Resource Definition that defines which type(s) of resource(s) this property references, if anyExample : "4.70. VersionedResourceDefinition on page 264"	4.70. VersionedResourceDefinition on page 264
sensitive optional	Whether or not the property is considered sensitiveExample : true	boolean

4.68. VersionedRemoteGroupPort

Name	Description	Schema
batchSize optional	The batch settings for data transmission.Example : "4.5. BatchSize on page 235"	4.5. BatchSize on page 235
comments optional	The user-supplied comments for the componentExample : "string"	string
componentType optional	Example : "string"	enum (CONNECTION, PROCESSOR, PROCESS_GROUP, REMOTE_PROCESS_GROUP, INPUT_PORT, OUTPUT_PORT, REMOTE_INPUT_PORT, REMOTE_OUTPUT_PORT, FUNNEL, LABEL, CONTROLLER_SERVICE)
concurrentlySchedulableTaskCount optional	The number of task that may transmit flowfiles to the target port concurrently.Example : 0	integer (int32)
groupIdentifier optional	The ID of the Process Group that this component belongs toExample : "string"	string
identifier optional	The component's unique identifierExample : "string"	string
name optional	The component's nameExample : "string"	string
position optional	The component's position on the graphExample : "4.37. Position on page 247"	4.37. Position on page 247

Name	Description	Schema
remoteGroupId optional	The id of the remote process group that the port resides in.Example : "string"	string
scheduledState optional	The scheduled state of the componentExample : "string"	enum (ENABLED, DISABLED)
targetId optional	The ID of the port on the target NiFi instanceExample : "string"	string
useCompression optional	Whether the flowfiles are compressed when sent to the target port.Example : true	boolean

4.69. VersionedRemoteProcessGroup

Name	Description	Schema
comments optional	The user-supplied comments for the componentExample : "string"	string
communicationsTimeout optional	The time period used for the timeout when communicating with the target.Example : "string"	string
componentType optional	Example : "string"	enum (CONNECTION, PROCESSOR, PROCESS_GROUP, REMOTE_PROCESS_GROUP, INPUT_PORT, OUTPUT_PORT, REMOTE_INPUT_PORT, REMOTE_OUTPUT_PORT, FUNNEL, LABEL, CONTROLLER_SERVICE)
groupIdIdentifier optional	The ID of the Process Group that this component belongs toExample : "string"	string
identifier optional	The component's unique identifierExample : "string"	string
inputPorts optional	A Set of Input Ports that can be connected to, in order to send data to the remote NiFi instanceExample : ["4.68. VersionedRemoteGroupPort on page 262"]	< 4.68. VersionedRemoteGroupPort on page 262 > array
localNetworkInterface optional	The local network interface to send/receive data. If not specified, any local address is used. If clustered, all nodes must have an interface with this identifier.Example : "string"	string
name optional	The component's nameExample : "string"	string
outputPorts optional	A Set of Output Ports that can be connected to, in order to pull data from the remote NiFi instanceExample : ["4.68. VersionedRemoteGroupPort on page 262"]	< 4.68. VersionedRemoteGroupPort on page 262 > array
position optional	The component's position on the graphExample : "4.37. Position on page 247"	4.37. Position on page 247
proxyHost optional	Example : "string"	string
proxyPort optional	Example : 0	integer (int32)
proxyUser optional	Example : "string"	string

Name	Description	Schema
targetUri optional	[DEPRECATED] The target URI of the remote process group. If target uri is not set, but uris are set, then returns the first uri in the uris. If neither target uri nor uris are set, then returns null.Example : "string"	string
targetUris optional	The target URIs of the remote process group. If target uris is not set but target uri is set, then returns the single target uri. If neither target uris nor target uri is set, then returns null.Example : "string"	string
transportProtocol optional	The Transport Protocol that is used for Site-to-Site communicationsExample : "string"	enum (RAW, HTTP)
yieldDuration optional	When yielding, this amount of time must elapse before the remote process group is scheduled again.Example : "string"	string

4.70. VersionedResourceDefinition

Name	Description	Schema
cardinality optional	The cardinality of the resourceExample : "string"	enum (SINGLE, MULTIPLE)
resourceTypes optional	The types of resource that the Property Descriptor is allowed to referenceExample : ["string"]	< enum (FILE, DIRECTORY, TEXT, URL) > array