

Cloudera DataFlow for Data Hub 7.2.11

## Apache NiFi Registry REST API

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# CLOUDERA

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# Contents

<b>1. Overview.....</b>	<b>7</b>
1.1. Version information.....	7
1.2. Contact information.....	7
1.3. License information.....	7
1.4. URI scheme.....	7
1.5. Tags.....	7
<b>2. Security.....</b>	<b>8</b>
2.1. Authorization.....	8
2.2. BasicAuth.....	8
<b>3. Resources.....</b>	<b>8</b>
3.1. Access.....	8
3.1.1. Get access status.....	8
3.1.2. Performs a logout for other providers that have been issued a JWT.....	9
3.1.3. Redirect/callback URI for processing the result of the OpenId Connect login sequence.....	10
3.1.4. Retrieves a JWT following a successful login sequence using the configured OpenId Connect provider.....	11
3.1.5. Performs a logout in the OpenId Provider.....	11
3.1.6. Initiates a request to authenticate through the configured OpenId Connect provider.....	12
3.1.7. Create token trying all providers.....	12
3.1.8. Create token using identity provider.....	13
3.1.9. Test identity provider.....	14
3.1.10. Get identity provider usage.....	15
3.1.11. Create token using kerberos.....	16
3.1.12. Create token using basic auth.....	17
3.2. Bucket Bundles.....	18
3.2.1. Get extension bundles by bucket.....	18
3.2.2. Create extension bundle version.....	20
3.3. Bucket Flows.....	22
3.3.1. Create flow.....	22
3.3.2. Get bucket flows.....	24
3.3.3. Get bucket flow.....	26
3.3.4. Update bucket flow.....	27
3.3.5. Delete bucket flow.....	29
3.3.6. Get bucket flow diff.....	31
3.3.7. Create flow version.....	32
3.3.8. Get bucket flow versions.....	52
3.3.9. Get latest bucket flow version content.....	53
3.3.10. Get latest bucket flow version metadata.....	63
3.3.11. Get bucket flow version.....	64
3.4. Buckets.....	74
3.4.1. Create bucket.....	74
3.4.2. Get all buckets.....	76
3.4.3. Get bucket fields.....	77
3.4.4. Get bucket.....	78
3.4.5. Update bucket.....	79

3.4.6. Delete bucket.....	81
3.5. Bundles.....	83
3.5.1. Get all bundles.....	83
3.5.2. Get all bundle versions.....	85
3.5.3. Get bundle.....	86
3.5.4. Delete bundle.....	88
3.5.5. Get bundle versions.....	89
3.5.6. Get bundle version.....	91
3.5.7. Delete bundle version.....	93
3.5.8. Get bundle version content.....	96
3.5.9. Get bundle version extensions.....	97
3.5.10. Get bundle version extension.....	99
3.5.11. Get bundle version extension docs.....	101
3.5.12. Get bundle version extension docs details.....	102
3.6. Config.....	104
3.6.1. Get configuration.....	104
3.7. Extension Repository.....	104
3.7.1. Get extension repo buckets.....	105
3.7.2. Get extension repo groups.....	106
3.7.3. Get extension repo artifacts.....	107
3.7.4. Get extension repo versions.....	108
3.7.5. Get extension repo version.....	109
3.7.6. Get extension repo version content.....	111
3.7.7. Get extension repo extensions.....	112
3.7.8. Get extension repo extension.....	114
3.7.9. Get extension repo extension docs.....	117
3.7.10. Get extension repo extension details.....	118
3.7.11. Get extension repo version checksum.....	119
3.7.12. Get global extension repo version checksum.....	120
3.8. Extensions.....	122
3.8.1. Get all extensions.....	122
3.8.2. Get extensions providing service API.....	124
3.8.3. Get extension tags.....	126
3.9. Flows.....	127
3.9.1. Get flow fields.....	127
3.9.2. Get flow.....	128
3.9.3. Get flow versions.....	130
3.9.4. Get latest flow version.....	131
3.9.5. Get latest flow version metadata.....	141
3.9.6. Get flow version.....	142
3.10. Items.....	152
3.10.1. Get all items.....	152
3.10.2. Get item fields.....	153
3.10.3. Get bucket items.....	154
3.11. Policies.....	155
3.11.1. Create access policy.....	156
3.11.2. Get all access policies.....	160
3.11.3. Get available resources.....	162
3.11.4. Get access policy for resource.....	163
3.11.5. Get access policy.....	166
3.11.6. Update access policy.....	169
3.11.7. Delete access policy.....	173
3.12. Tenants.....	176
3.12.1. Create user group.....	176
3.12.2. Get user groups.....	180
3.12.3. Get user group.....	183

3.12.4. Update user group.....	185
3.12.5. Delete user group.....	189
3.12.6. Create user.....	192
3.12.7. Get all users.....	196
3.12.8. Get user.....	199
3.12.9. Update user.....	201
3.12.10. Delete user.....	206

## **4. Definitions.....208**

4.1. AccessPolicy.....	209
4.2. AccessPolicySummary.....	209
4.3. AllowableValue.....	209
4.4. Attribute.....	210
4.5. BatchSize.....	210
4.6. Bucket.....	210
4.7. BucketItem.....	210
4.8. BuildInfo.....	211
4.9. Bundle.....	211
4.10. BundleInfo.....	212
4.11. BundleVersion.....	212
4.12. BundleVersionDependency.....	212
4.13. BundleVersionMetadata.....	213
4.14. ComponentDifference.....	213
4.15. ComponentDifferenceGroup.....	214
4.16. ConnectableComponent.....	214
4.17. ControllerServiceAPI.....	214
4.18. ControllerServiceDefinition.....	215
4.19. CurrentUser.....	215
4.20. DeprecationNotice.....	215
4.21. DynamicProperty.....	215
4.22. DynamicRelationship.....	216
4.23. Extension.....	216
4.24. ExtensionBundle.....	217
4.25. ExtensionFilterParams.....	218
4.26. ExtensionMetadata.....	218
4.27. ExtensionMetadataContainer.....	218
4.28. ExtensionRepoArtifact.....	219
4.29. ExtensionRepoBucket.....	219
4.30. ExtensionRepoGroup.....	219
4.31. ExtensionRepoVersion.....	219
4.32. ExtensionRepoVersionSummary.....	220
4.33. ExternalControllerServiceReference.....	220
4.34. Fields.....	220
4.35. JaxbLink.....	220
4.36. Permissions.....	221
4.37. Position.....	221
4.38. Property.....	221
4.39. ProvidedServiceAPI.....	222
4.40. RegistryConfiguration.....	222
4.41. Relationship.....	222
4.42. Resource.....	222
4.43. ResourcePermissions.....	222
4.44. Restricted.....	223
4.45. Restriction.....	223
4.46. RevisionInfo.....	223

4.47. Stateful.....	224
4.48. SystemResourceConsideration.....	224
4.49. TagCount.....	224
4.50. Tenant.....	224
4.51. User.....	225
4.52. UserGroup.....	225
4.53. VersionedConnection.....	226
4.54. VersionedControllerService.....	227
4.55. VersionedFlow.....	228
4.56. VersionedFlowCoordinates.....	229
4.57. VersionedFlowDifference.....	229
4.58. VersionedFlowSnapshot.....	229
4.59. VersionedFlowSnapshotMetadata.....	230
4.60. VersionedFunnel.....	230
4.61. VersionedLabel.....	231
4.62. VersionedParameter.....	231
4.63. VersionedParameterContext.....	232
4.64. VersionedPort.....	232
4.65. VersionedProcessGroup.....	232
4.66. VersionedProcessor.....	234
4.67. VersionedPropertyDescriptor.....	235
4.68. VersionedRemoteGroupPort.....	235
4.69. VersionedRemoteProcessGroup.....	236

# 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 : 0.8.0

## 1.2. Contact information

Contact : Apache NiFi Registry

Contact Email : [dev@nifi.apache.org](mailto: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 : apiKey

Name : Authorization

In : 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	CurrentUser
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	Authorization

### Example HTTP request

Request path

```
/access
```

### Example HTTP response

Response 200

```
{
  "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

Request path

```
/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

Request path

```
/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

Request path

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

#### Example HTTP response

Response 200

```
"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**

Request path

```
/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**

Request path

```
/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

Request path

```
/access/token
```

### Example HTTP response

Response 200

```
"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

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 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

Request path

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

### Example HTTP response

Response 200

```
"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

HTTP Code	Description	Schema
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

Request path

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

### Example HTTP response

Response 200

```
"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

HTTP Code	Description	Schema
500	NiFi Registry was unable to complete the request because an unexpected error occurred.	No Content

### Consumes

- /

### Produces

- text/plain

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
"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
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**

Request path

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

**Example HTTP response**

Response 200

```
"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 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
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

### Security

Type	Name
basic	BasicAuth

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
"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	< 546a3c86bf350e1dd1b2f18a90fe3082617a34e.html#_extensionb > 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
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
[ {
  "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	BundleVersion
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	Authorization

#### Example HTTP request

## Request path

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

## Example HTTP response

## Response 200

```
{
  "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

Type	Name	Description	Schema
Body	body required	The details of the flow to create.	VersionedFlow

### Responses

HTTP Code	Description	Schema
200	successful operation	VersionedFlow
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	Authorization

### Example HTTP request

Request path

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

Request body

```
{
  "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

Response 200

```

  {
    "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	< VersionedFlow > 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	Authorization

## Example HTTP request

Request path

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

## Example HTTP response

Response 200

```
[ {
  "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	VersionedFlow
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	Authorization

#### Example HTTP request

**Request path**

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

**Example HTTP response**

Response 200

```
{
  "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	VersionedFlow

**Responses**

HTTP Code	Description	Schema
200	successful operation	VersionedFlow
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	Authorization

### Example HTTP request

#### Request path

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

#### Request body

```
{
  "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

Response 200

```

{
  "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

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	<a href="#">c8f5cf1572a6190892618578acf8a8e36a1305d2.html#_versioneddf</a>
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	Authorization

### Example HTTP request

Request path

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

Request query

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

### Example HTTP response

Response 200

```
{
  "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	VersionedFlowDifference
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	d3a2235b4add727b15b5f2471b15fa7411f4c0a2.html#_authorization

### Example HTTP request

77b9a9506f38fa56afbfb2c198f625d974b585d2.xml#\_request\_path\_2077b9a9506f38fa56afbfb2c198f625d974b585d2.xml#\_request\_path\_

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

### Example HTTP response

77b9a9506f38fa56afbfb2c198f625d974b585d2.xml#\_response\_200\_1677b9a9506f38fa56afbfb2c198f625d974b585d2.xml#\_response\_200

```
{
  "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

Type	Name	Description	Schema
Path	flowId required	The flow identifier	string
Body	body required	The new versioned flow snapshot.	VersionedFlowSnapshot

### Responses

HTTP Code	Description	Schema
200	successful operation	VersionedFlowSnapshot
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	Authorization

### Example HTTP request

Request path

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

Request body

```
{
  "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"
},

```



```

    } ],
    "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",
    "currentlySchedulableTaskCount" : 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",
  "componentType" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "string",
  "groupIdentifier" : "string"
},
"externalControllerServices" : {
  "string" : "<<_externalcontrollersservicereference>>"
},
"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

Response 200

```

{
  "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",
  "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",
  "currentlySchedulableTaskCount" : 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",
  "componentType" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "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",
    "componentType" : "string",
    "flowFileConcurrency" : "string",
    "flowFileOutboundPolicy" : "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	<a href="#">VersionedFlowSnapshotMetadata</a>
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	Authorization

#### Example HTTP request

Request path

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

#### Example HTTP response

Response 200

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

### 3.3.9. 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
Path	flowId required	The flow identifier	string

#### Responses

HTTP Code	Description	Schema
200	successful operation	VersionedFlowSnapshot
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	Authorization

### Example HTTP request

Request path

```
/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",
"componentType" : "string",
"flowFileConcurrency" : "string",
"flowFileOutboundPolicy" : "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",
  "componentType" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "string",
  "groupIdentifier" : "string"
},
"externalControllerServices" : {
  "string" : "<<_externalcontrollerservice>>"
},
"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 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	<a href="#">VersionedFlowSnapshotMetadata</a>
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	Authorization

## Example HTTP request

Request path

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

## Example HTTP response

Response 200

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

### 3.3.11. 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	VersionedFlowSnapshot
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
{
  "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"
  } ],
  "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",
"componentType" : "string",
"flowFileConcurrency" : "string",
"flowFileOutboundPolicy" : "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",
  "componentType" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "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	Bucket

## Responses

HTTP Code	Description	Schema
200	successful operation	Bucket
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	Authorization

## Example HTTP request

Request path

```
/buckets
```

Request body

```
{
  "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

Response 200

```

{
  "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	< Bucket > array
401	Client could not be authenticated.	No Content

#### Consumes

- /

#### Produces

- application/json

#### Security

Type	Name
apiKey	Authorization

### Example HTTP request

Request path

```
/buckets
```

### Example HTTP response

Response 200

```

    [ {
      "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	Fields

#### Consumes

- /

#### Produces

- application/json

#### Security

Type	Name
apiKey	Authorization

### Example HTTP request

Request path

```
/buckets/fields
```

### Example HTTP response

Response 200

```
{
  "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	Bucket
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	Authorization

### Example HTTP request

Request path

```
/buckets/string
```

### Example HTTP response

Response 200

```

{
  "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	Bucket

### Responses

HTTP Code	Description	Schema
200	successful operation	Bucket

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

- application/json

### Produces

- application/json

### Security

Type	Name
apiKey	Authorization

### Example HTTP request

#### Request path

```
/buckets/string
```

#### Request body

```
{
  "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

#### Response 200

```

{
  "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	Bucket
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	Authorization

### Example HTTP request

Request path

```
/buckets/string
```

Request query

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

### Example HTTP response

Response 200

```
{
  "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
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	< ExtensionBundle > array
401	Client could not be authenticated.	No Content

### Consumes

- /

### Produces

- application/json

### Security

Type	Name
apiKey	Authorization

### Example HTTP request

Request path

```
/bundles
```

Request query

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

### Example HTTP response

Response 200

```
[ {
  "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	< BundleVersionMetadata > array
401	Client could not be authenticated.	No Content

#### Consumes

- /

#### Produces

- application/json

#### Security

Type	Name
apiKey	Authorization

#### Example HTTP request

Request path

```
/bundles/versions
```

Request query

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

### Example HTTP response

Response 200

```
[ {
  "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	ExtensionBundle
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	Authorization

### Example HTTP request

Request path

```
/bundles/string
```

### Example HTTP response

Response 200

```
{
  "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	ExtensionBundle
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	Authorization

### Example HTTP request

Request path

```
/bundles/string
```

### Example HTTP response

Response 200

```
{
  "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	< BundleVersionMetadata > 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	Authorization

## Example HTTP request

Request path

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

## Example HTTP response

Response 200

```
[ {
  "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	BundleVersion
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
{
  "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 it's 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	BundleVersion
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
{
  "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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
[ "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	< ExtensionMetadata > 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

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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
{
  "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	< Extension > 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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
[ {
  "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

Type	Name	Description	Schema
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
"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	Authorization

### Example HTTP request

request path

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

### Example HTTP response

Response 200

```
"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	RegistryConfiguration
401	Client could not be authenticated.	No Content

#### Consumes

- /

#### Produces

- application/json

#### Security

Type	Name
apiKey	Authorization

#### Example HTTP request

Request path

```
/config
```

#### Example HTTP response

Response 200

```
{
  "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	< ExtensionRepoBucket > 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	Authorization

#### Example HTTP request

Request path

```
/extension-repository
```

#### Example HTTP response

Response 200

```
[ {
  "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	< ExtensionRepoGroup > 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	Authorization

#### Example HTTP request

Request path

```


```

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

### Example HTTP response

Response 200

```
{
  "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	< ExtensionRepoArtifact > 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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
{
  "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

1

### Responses

HTTP Code	Description	Schema
200	successful operation	< ExtensionRepoVersionSummary > 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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
[ {
  "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	ExtensionRepoVersion
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

## Response 200

```

{
  "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

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/octet-stream

### Security

Type	Name
apiKey	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
[ "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	< ExtensionMetadata > 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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
[ {
  "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

Type	Name	Description	Schema
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	Extension
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
{
  "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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
"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

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

- text/html

### Security

Type	Name
apiKey	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
"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

Type	Name	Description	Schema
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
"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	Authorization

## Example HTTP request

Request path

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

## Example HTTP response

Response 200

"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	ExtensionMetadataContainer
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	Authorization

## Example HTTP request

Request path

```
/extensions
```

Request query

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

## Example HTTP response

Response 200

```
{
  "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	ExtensionMetadataContainer

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	Authorization

### Example HTTP request

Request path

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

Request query

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

### Example HTTP response

Response 200

```
{
  "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	< TagCount > 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	Authorization

### Example HTTP request

Request path

```
/extensions/tags
```

### Example HTTP response

Response 200

```
[ {
  "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	Fields

### Consumes

- /

### Produces

- application/json

### Security

Type	Name
apiKey	Authorization

### Example HTTP request

Request path

```
/flows/fields
```

### Example HTTP response

Response 200

```
{
  "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	VersionedFlow

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	Authorization

### Example HTTP request

Request path

```
/flows/string
```

### Example HTTP response

Response 200

```
{
  "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	< VersionedFlowSnapshotMetadata > 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	Authorization

#### Example HTTP request

Request path

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

#### Example HTTP response

Response 200

```
[ {
  "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	VersionedFlowSnapshot
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
{
  "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",
"componentType" : "string",
"flowFileConcurrency" : "string",
"flowFileOutboundPolicy" : "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",
  "componentType" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "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	<a href="#">VersionedFlowSnapshotMetadata</a>
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
{
  "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	VersionedFlowSnapshot
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
{
  "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",
    "componentType" : "string",
    "flowFileConcurrency" : "string",
    "flowFileOutboundPolicy" : "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",
  "componentType" : "string",
  "flowFileConcurrency" : "string",
  "flowFileOutboundPolicy" : "string",
  "groupIdentifier" : "string"
},
"externalControllerServices" : {
  "string" : "<<_externalcontrollersservicereference>>"
},
"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	< BucketItem > array
401	Client could not be authenticated.	No Content

**Consumes**

- /

**Produces**

- application/json

**Security**

Type	Name
apiKey	Authorization

**Example HTTP request**

Request path

```
/items
```

**Example HTTP response**

Response 200

```
[ {
  "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	Fields

### Consumes

- /

### Produces

- application/json

### Security

Type	Name
apiKey	Authorization

### Example HTTP request

Request path

```
/items/fields
```

### Example HTTP response

Response 200

```
{
  "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	< BucketItem > 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
404	The specified resource could not be found.	No Content

### Consumes

- /

### Produces

- application/json

### Security

Type	Name
apiKey	Authorization

### Example HTTP request

Request path

```
/items/string
```

### Example HTTP response

Response 200

```
{
  "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.	AccessPolicy

#### Responses

HTTP Code	Description	Schema
200	successful operation	AccessPolicy
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
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	Authorization

#### Example HTTP request

Request path

```
/policies
```

Request body

```
{
  "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

Response 200

```

{
  "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	< AccessPolicy > 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	Authorization

#### Example HTTP request

Request path

```
/policies
```

### Example HTTP response

Response 200

```
[ {
  "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	< Resource > 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	Authorization

## Example HTTP request

Request path

```
/policies/resources
```

## Example HTTP response

Response 200

```
[ {
  "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	AccessPolicy
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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
{
  "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	AccessPolicy
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	Authorization

### Example HTTP request

Request path

```
/policies/string
```

### Example HTTP response

Response 200

```
{
  "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.	AccessPolicy

#### Responses

HTTP Code	Description	Schema
200	successful operation	AccessPolicy
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	Authorization

#### Example HTTP request

Request path

```
/policies/string
```

Request body

```
{
  "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

Response 200

```

{
  "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	AccessPolicy
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. The NiFi Registry might not be configured to use a ConfigurableAccessPolicyProvider.	No Content

### Consumes

- /

### Produces

- application/json

### Security

Type	Name
apiKey	Authorization

### Example HTTP request

Request path

```
/policies/string
```

Request query

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

### Example HTTP response

Response 200

```
{
  "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.	UserGroup

#### Responses

HTTP Code	Description	Schema
200	successful operation	UserGroup
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

- application/json

### Produces

- application/json

### Security

Type	Name
apiKey	Authorization

### Example HTTP request

Request path

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

Request body

```
{
  "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**
[d5855af64065508cab49f00f03ef358add187e50.xml#\\_response\\_200\\_72d5855af64065508cab49f00f03ef358add187e50.xml#\\_response\\_200](#)

```

{
  "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	< UserGroup > 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	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```
[ {
  "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"
  }
} ]
} ]

```

### 3.12.3. Get user group

```
GET /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

#### Responses

HTTP Code	Description	Schema
200	successful operation	UserGroup
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	Authorization

#### Example HTTP request

## Request path

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

## Example HTTP response

## Response 200

```
{
  "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

Type	Name	Description	Schema
Body	body required	The user group configuration details.	UserGroup

### Responses

HTTP Code	Description	Schema
200	successful operation	UserGroup
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	Authorization

### Example HTTP request

Request path

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

Request body

```
{
  "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

Response 200

```

{
  "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	UserGroup
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	Authorization

### Example HTTP request

Request path

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

## Request query

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

## Example HTTP response

## Response 200

```
{
  "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.	User

### Responses

HTTP Code	Description	Schema
200	successful operation	User
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	Authorization

### Example HTTP request

Request path

```
/tenants/users
```

Request body

```
{
  "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

Response 200

```

{
  "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	< User > 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
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	Authorization

## Example HTTP request

Request path

```
/tenants/users
```

## Example HTTP response

Response 200

```
[ {
  "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" : [ {

```



## Security

Type	Name
apiKey	Authorization

### Example HTTP request

Request path

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

### Example HTTP response

Response 200

```

{
  "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.	User

### Responses

HTTP Code	Description	Schema
200	successful operation	User
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	Authorization

### Example HTTP request

Request path

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

Request body

```
{
  "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

Response 200

```

{
  "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
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	User
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	Authorization

#### Example HTTP request

## Request path

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

## Request query

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

**Example HTTP response**

## Response 200

```
{
  "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: "RevisionInfo"	RevisionInfo
userGroups optional	The set of user group IDs associated with this access policy.Example: [ "Tenant" ]	< Tenant > array
users optional	The set of user IDs associated with this access policy.Example: [ "Tenant" ]	< Tenant > 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: "RevisionInfo"	RevisionInfo

## 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 : "JaxbLink"	JaxbLink
name required	The name of the bucket.Example : "string"	string
permissions optional	The access that the current user has to this bucket.Example : "Permissions"	Permissions
revision optional	The revision of this entity used for optimistic-locking during updates.Example : "RevisionInfo"	RevisionInfo

## 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 : "JaxbLink"	JaxbLink
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 : "Permissions"	Permissions
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)
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 : "Bucket"	Bucket
bundle optional	The bundle this version is forExample : "ExtensionBundle"	ExtensionBundle
dependencies optional	The set of other bundle versions that this version is dependent onExample : [ "BundleVersionDependency" ]	< BundleVersionDependency > array
filename optional	Example : "string"	string
link optional	An WebLink to this entity.Example : "JaxbLink"	JaxbLink
versionMetadata required	The metadata about this version of the extension bundleExample : "BundleVersionMetadata"	BundleVersionMetadata

## 4.12. BundleVersionDependency

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

### 4.13. BundleVersionMetadata

Name	Description	Schema
artifactId optional	Example : "string"	string
author optional	The identity that created this version Example : "string"	string
bucketId required	The id of the bucket the extension bundle belongs to Example : "string"	string
buildInfo required	The build information about this version Example : "BuildInfo"	BuildInfo
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 <a href="#">WebLink</a> to this entity. Example : "JaxbLink"	JaxbLink
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 : [ "ComponentDifference" ]	< ComponentDifference > 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 in.Example : "string"	string
id required	The id of the connectable component.Example : "string"	string
name optional	The name of the connectable component.Example : "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 : "Bundle"	Bundle
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
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 : "ResourcePermissions"	ResourcePermissions

#### 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 property Example : "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 supported Example : 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 : "DeprecationNotice"	DeprecationNotice
description optional	The description of the extension Example : "string"	string
dynamicProperties optional	The dynamic properties of the extension Example : [ "DynamicProperty" ]	< DynamicProperty > array
dynamicRelationship optional	The dynamic relationships of the extension Example : "DynamicRelationship"	DynamicRelationship
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 : [ "Property" ]	< Property > array
providedServiceAPIs optional	The service APIs provided by this extension Example : [ "ProvidedServiceAPI" ]	< ProvidedServiceAPI > array
readsAttributes optional	The attributes read from flow files by the extension Example : [ "Attribute" ]	< Attribute > array
relationships optional	The relationships of the extension Example : [ "Relationship" ]	< Relationship > array
restricted optional	The restrictions of the extension Example : "Restricted"	Restricted

Name	Description	Schema
seeAlso optional	The names of other extensions to seeExample : [ "string" ]	< string > array
stateful optional	The information about how the extension stores stateExample : "Stateful"	Stateful
systemResourceConsiderations optional	The resource considerations of the extensionExample : [ "SystemResourceConsideration" ]	< SystemResourceConsideration > array
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 : [ "Attribute" ]	< Attribute > 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 : "JaxbLink"	JaxbLink
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 : "Permissions"	Permissions
type required	The type of item.Example : "string"	enum (Flow, Bundle)

Name	Description	Schema
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 : "BundleInfo"	BundleInfo
deprecationNotice optional	The deprecation notice of the extensionExample : "DeprecationNotice"	DeprecationNotice
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 : "JaxbLink"	JaxbLink
linkDocs optional	A WebLink to the documentation for this extension.Example : "JaxbLink"	JaxbLink
name optional	The name of the extensionExample : "string"	string
providedServiceAPIs optional	The service APIs provided by the extensionExample : [ "ProvidedServiceAPI" ]	< ProvidedServiceAPI > array
restricted optional	The restrictions of the extensionExample : "Restricted"	Restricted
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 : [ "ExtensionMetadata" ]	< ExtensionMetadata > array
filterParams optional	The filter parameters submitted for the requestExample : "ExtensionFilterParams"	ExtensionFilterParams
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 : "JaxbLink"	JaxbLink

## 4.29. ExtensionRepoBucket

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

## 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 : "JaxbLink"	JaxbLink

## 4.31. ExtensionRepoVersion

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

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

### 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 : "JaxbLink"	JaxbLink
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)
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 : [ "AllowableValue" ]	< AllowableValue > array
controllerServiceDefinition optional	The controller service required by this property, or null if none is requiredExample : "ControllerServiceDefinition"	ControllerServiceDefinition
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 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 : "Permissions"	Permissions
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 : "Permissions"	Permissions
policies optional	The access that the current user has to the top level /policies resource of this NiFi RegistryExample : "Permissions"	Permissions
proxy optional	The access that the current user has to the top level /proxy resource of this NiFi RegistryExample : "Permissions"	Permissions
tenants optional	The access that the current user has to the top level /tenants resource of this NiFi RegistryExample : "Permissions"	Permissions

#### 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 : [ "Restriction" ]	< Restriction > 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

Name	Description	Schema
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 : [ "AccessPolicySummary" ]	< AccessPolicySummary > 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

Name	Description	Schema
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 : "ResourcePermissions"	ResourcePermissions
revision optional	The revision of this entity used for optimistic-locking during updates.Example : "RevisionInfo"	RevisionInfo

## 4.51. User

Name	Description	Schema
accessPolicies optional	The access policies granted to this tenant.Example : [ "AccessPolicySummary" ]	< AccessPolicySummary > 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 : "ResourcePermissions"	ResourcePermissions
revision optional	The revision of this entity used for optimistic-locking during updates.Example : "RevisionInfo"	RevisionInfo
userGroups optional	The groups to which the user belongs.Example : [ "Tenant" ]	< Tenant > array

## 4.52. UserGroup

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

Name	Description	Schema
resourcePermissions optional	A summary top-level resource access policies granted to this tenant.Example : "ResourcePermissions"	ResourcePermissions
revision optional	The revision of this entity used for optimistic-locking during updates.Example : "RevisionInfo"	RevisionInfo
users optional	The users that belong to this user group. This can only be changed if this group is configurable.Example : [ "Tenant" ]	< Tenant > 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 : [ "Position" ]	< Position > 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 : "ConnectableComponent"	ConnectableComponent
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

Name	Description	Schema
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 : "Position"	< Position > array
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 : "ConnectableComponent"	ConnectableComponent
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
bundle optional	The details of the artifact that bundled this processor type.Example : "Bundle"	Bundle
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)

Name	Description	Schema
controllerServiceApis optional	Lists the APIs this Controller Service implements.Example : [ "ControllerServiceAPI" ]	< ControllerServiceAPI > array
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 : "Position"	Position
properties optional	The properties of the controller service.Example : { "string" : "string" }	< string, string > map
propertyDescriptors optional	The property descriptors for the processor.Example : { "string" : "VersionedPropertyDescriptor" }	< string, VersionedPropertyDescriptor > 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
link optional	An WebLink to this entity.Example : "JaxbLink"	JaxbLink
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 : "Permissions"	Permissions
revision optional	The revision of this entity used for optimistic-locking during updates.Example : "RevisionInfo"	RevisionInfo

Name	Description	Schema
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 : [ "ComponentDifferenceGroup" ]	< ComponentDifferenceGroup > 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 : "Bucket"	Bucket
externalControllerServices optional	The information about controller services that exist outside this versioned flow, but are referenced by components within the versioned flow.Example : { "string" : "ExternalControllerServiceReference" }	< string, ExternalControllerServiceReference > map
flow optional	The flow this snapshot is for.Example : "VersionedFlow"	VersionedFlow

Name	Description	Schema
flowContents required	The contents of the versioned flowExample : "VersionedProcessGroup"	VersionedProcessGroup
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" : "VersionedParameterContext" }	< string, VersionedParameterContext > map
snapshotMetadata required	The metadata for this snapshotExample : "VersionedFlowSnapshotMetadata"	VersionedFlowSnapshotMetadata

## 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 : "JaxbLink"	JaxbLink
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 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)

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 : "Position"	Position

## 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 : "Position"	Position
style optional	The styles for this label (font-size : 12px, background-color : #eee, etc). Example : { "string" : "string" }	< string, string > map
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 param Example : "string"	string
name optional	The name of the parameter Example : "string"	string

Name	Description	Schema
sensitive optional	Whether or not the parameter value is sensitive Example : true	boolean
value optional	The value of the parameter Example : "string"	string

### 4.63. VersionedParameterContext

Name	Description	Schema
description optional	The description of the parameter Example : "string"	string
name optional	The name of the context Example : "string"	string
parameters optional	The parameters in the context Example : [ "VersionedParameter" ]	< VersionedParameter > array

### 4.64. VersionedPort

Name	Description	Schema
allowRemoteAccess optional	Whether or not this port allows remote access for site-to-site Example : true	boolean
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 scheduled for the port. Example : 0	integer (int32)
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 : "Position"	Position
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 : [ "VersionedConnection" ]	< VersionedConnection > array
controllerServices optional	The Controller Services Example : [ "VersionedControllerService" ]	< VersionedControllerService > array
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 : [ "VersionedFunnel" ]	< VersionedFunnel > array
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
inputPorts optional	The Input Ports Example : [ "VersionedPort" ]	< VersionedPort > array
labels optional	The Labels Example : [ "VersionedLabel" ]	< VersionedLabel > array
name optional	The component's name Example : "string"	string
outputPorts optional	The Output Ports Example : [ "VersionedPort" ]	< VersionedPort > array
parameterContextName optional	The name of the parameter context used by this process group Example : "string"	string
position optional	The component's position on the graph Example : "Position"	Position
processGroups optional	The child Process Groups Example : [ "VersionedProcessGroup" ]	< VersionedProcessGroup > array
processors optional	The Processors Example : [ "VersionedProcessor" ]	< VersionedProcessor > array
remoteProcessGroups optional	The Remote Process Groups Example : [ "VersionedRemoteProcessGroup" ]	< VersionedRemoteProcessGroup > 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 Control Example : "VersionedFlowCoordinates"	VersionedFlowCoordinates

## 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
bundle optional	Information about the bundle from which the component cameExample : "Bundle"	Bundle
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 schedule for the processor. If the processor doesn't allow parallol 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 toExample : "string"	string
identifier optional	The component's unique identifierExample : "string"	string
name optional	The component's nameExample : "string"	string
penaltyDuration optional	The amout of time that is used when the process penalizes a flowfile.Example : "string"	string
position optional	The component's position on the graphExample : "Position"	Position
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

Name	Description	Schema
propertyDescriptors optional	The property descriptors for the processor.Example : { "string" : "VersionedPropertyDescriptor" }	< string, VersionedPropertyDescriptor > map
runDurationMillis optional	The run duration for the processor in milliseconds.Example : 0	integer (int64)
scheduledState optional	The scheduled state of the componentExample : "string"	enum (ENABLED, DISABLED)
schedulingPeriod optional	The frequency with which to schedule the processor. The format of the value will depend on th value of schedulingStrategy.Example : "string"	string
schedulingStrategy optional	Indcates whether the prcessor should be scheduled to run in event or timer driven mode.Example : "string"	string
style optional	Stylistic data for rendering in a UIExample : { "string" : "string" }	< string, string > map
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
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 : "BatchSize"	BatchSize
comments optional	The user-supplied comments for the componentExample : "string"	string

Name	Description	Schema
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)
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 : "Position"	Position
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 : [ "VersionedRemoteGroupPort" ]	< VersionedRemoteGroupPort > array

Name	Description	Schema
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 : [ "VersionedRemoteGroupPort" ]	< VersionedRemoteGroupPort > array
position optional	The component's position on the graphExample : "Position"	Position
proxyHost optional	Example : "string"	string
proxyPort optional	Example : 0	integer (int32)
proxyUser optional	Example : "string"	string
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