

Cloudera Runtime 7.1.5

## Atlas Audits

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# CLOUdera

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## Audit Operations

As an Atlas administrator you can view the audit operations listed in the Audits tab in the Atlas UI. The audit data is captured implicitly by Atlas for various operations.

The audit operations include:

- Import
- Export
- Server start
- Server state active (In case of HA environment)
- Type Definition create
- Type Definition update
- Type Definition delete

The Type Definition can be of any type category listed:

- Business Metadata
- Classification
- Enum
- Entity
- Relationship
- Struct

Audit is collected for every create, update and delete operations.



**Note:** A user or a group must have the Admin Audits Ranger permission to access audits and related information.

Allow Conditions:

Hide

| Select Role             | Select Group             | Select User                                                                                                 | Permissions                                                                                                               | Delegate Admin                                                                                                                                                                                                                                                                                                                                                                                                                                                         |
|-------------------------|--------------------------|-------------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------------------|------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
| <div>Select Roles</div> | <div>Select Groups</div> | <div> <span>× beacon</span> <span>× dpprofiler</span> <span>× admin</span> <br/> <span>× nifi</span> </div> | <div> <span>Admin Export</span> <span>Admin Import</span> <br/> <span>Admin Purge</span> <span>Admin Audits</span> </div> | <div> add/edit permissions           <ul style="list-style-type: none"> <li><input checked="" type="checkbox"/> Admin Export</li> <li><input checked="" type="checkbox"/> Admin Import</li> <li><input checked="" type="checkbox"/> Admin Purge</li> <li><input checked="" type="checkbox"/> Admin Audits</li> <li><input checked="" type="checkbox"/> Select/Deselect All</li> </ul> <div> <input checked="" type="checkbox"/> <input type="checkbox"/> </div> </div> |

⚠ Exclude from Allow Conditions:

The JSON data is the payload which contains the actual data. You can submit the payload using the appropriate REST API tool.

The screenshot shows the Apache Atlas Audit Operations interface. The left sidebar contains search filters for entity types, classifications, and terms. The main area displays a table of audit entries for 'TYPE\_DEF\_CREATE' operations. A dropdown menu is open, showing various operation types like PURGE, EXPORT, IMPORT, etc.

| Operation       | Result Count | Start Time                   | End Time                     |
|-----------------|--------------|------------------------------|------------------------------|
| TYPE_DEF_CREATE | 9            | 11/03/2020 04:43:27 PM (IST) | 11/03/2020 04:43:30 PM (IST) |
| TYPE_DEF_CREATE | 3            | 11/03/2020 04:43:27 PM (IST) | 11/03/2020 04:43:31 PM (IST) |
| TYPE_DEF_CREATE | 4            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:06 PM (IST) |
| TYPE_DEF_CREATE | 20           | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:09 PM (IST) |
| TYPE_DEF_CREATE | 11           | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:14 PM (IST) |
| TYPE_DEF_CREATE | 8            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:11 PM (IST) |
| TYPE_DEF_CREATE | 6            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:10 PM (IST) |
| TYPE_DEF_CREATE | 7            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:12 PM (IST) |
| TYPE_DEF_CREATE | 21           | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:18 PM (IST) |
| TYPE_DEF_CREATE | 5            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:16 PM (IST) |
| TYPE_DEF_CREATE | 3            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:15 PM (IST) |

An audit entry logs the total number of Type Definitions that are created for create, update, and delete operations. Type Definitions are categorized according to entity types, struct types, Enum types, relationships, classification, and Business Metadata. For every Type Definition, the JSON data is stored in the audit entry.

Each audit entry logs the following details:

- Users - Indicates the user name of the user who performed the audit operation..
- Operation - Indicates an operation enum; can be used for searching audit entities as well
- Client ID - Indicates the IP address of the machine from which the request was generated.
- Result Count - Provides the total number of artifacts on which the operation was performed.
- Start Time - Indicates the actual time when the request was generated.
- End Time - Indicates the actual time when the requested operation was completed.
- Duration - Indicates the time taken by a request to complete the intended operation.

| Business Metadata Enumerations Audits Type System |                 |           |              |                              |                              |
|---------------------------------------------------|-----------------|-----------|--------------|------------------------------|------------------------------|
| Filters Columns                                   |                 |           |              |                              |                              |
| Users                                             | Operation       | Client ID | Result Count | Start Time                   | End Time                     |
| > hrt_qa                                          | PURGE           |           | 5            | 11/09/2020 01:03:32 PM (IST) | 11/09/2020 01:03:32 PM (IST) |
| > hrt_qa                                          | PURGE           |           | 5            | 11/09/2020 01:04:01 PM (IST) | 11/09/2020 01:04:01 PM (IST) |
| > hrt_qa                                          | PURGE           |           | 5            | 11/09/2020 02:44:36 PM (IST) | 11/09/2020 02:44:37 PM (IST) |
| > hrt_qa                                          | PURGE           |           | 5            | 11/09/2020 02:43:58 PM (IST) | 11/09/2020 02:43:58 PM (IST) |
| >                                                 | TYPE_DEF_CREATE |           | 5            | 11/09/2020 10:08:58 AM (IST) | 11/09/2020 10:09:35 AM (IST) |
| > hrt_qa                                          | PURGE           |           | 5            | 11/09/2020 01:02:49 PM (IST) | 11/09/2020 01:02:49 PM (IST) |
| > hrt_qa                                          | PURGE           |           | 5            | 11/09/2020 01:02:47 PM (IST) | 11/09/2020 01:02:47 PM (IST) |
| > hrt_qa                                          | PURGE           |           | 5            | 11/09/2020 02:43:04 PM (IST) | 11/09/2020 02:43:05 PM (IST) |
| > hrt_qa                                          | PURGE           |           | 5            | 11/09/2020 02:43:01 PM (IST) | 11/09/2020 02:43:01 PM (IST) |
| >                                                 | TYPE_DEF_CREATE |           | 5            | 11/10/2020 04:57:08 PM (IST) | 11/10/2020 04:57:09 PM (IST) |

Showing 10 records From 1 - 25 Page Limit : 25

## Atlas Type Definitions

Using Type Definitions, you can create, update, and delete entities of various types.

An example of Type Definition - Create

Admin

AND OR

+ Add filter

+ Add filter group

Operation (atlas\_operation)

=

TYPE\_DEF\_CREATE

×

Apply

Close

Business Metadata Enumerations Audits Type System

> Filters

Columns

| Users | Operation       | Client ID | Result Count | Start Time                   | End Time                     |
|-------|-----------------|-----------|--------------|------------------------------|------------------------------|
| >     | TYPE_DEF_CREATE |           | 17           | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:37 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 18           | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:45 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 12           | 11/03/2020 04:42:59 PM (IST) | 11/03/2020 04:43:17 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 9            | 11/03/2020 04:42:59 PM (IST) | 11/03/2020 04:43:13 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 10           | 11/03/2020 04:42:59 PM (IST) | 11/03/2020 04:43:18 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 7            | 11/03/2020 04:42:59 PM (IST) | 11/03/2020 04:43:15 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 9            | 11/03/2020 04:43:27 PM (IST) | 11/03/2020 04:43:30 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 3            | 11/03/2020 04:43:27 PM (IST) | 11/03/2020 04:43:31 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 4            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:06 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 20           | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:09 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 11           | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:14 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 8            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:11 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 6            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:10 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 7            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:12 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 21           | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:18 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 5            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:16 PM (IST) |
| >     | TYPE_DEF_CREATE |           | 3            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:42:15 PM (IST) |

An example of Type Definition - Update

Admin

AND OR

+ Add filter

+ Add filter group

Operation (atlas\_operation)

=

TYPE\_DEF\_UPDATE

×

Apply

Close

Business MetadataEnumerationsAuditsType System

> FiltersColumns

| Users | Operation       | Client ID | Result Count | Start Time                   | End Time                     |
|-------|-----------------|-----------|--------------|------------------------------|------------------------------|
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:46 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:47 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:47 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:48 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:49 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:48 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:49 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:50 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:49 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:50 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:51 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:51 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:53 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:52 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:52 PM (IST) |
| >     | TYPE_DEF_UPDATE |           | 1            | 11/03/2020 04:41:28 PM (IST) | 11/03/2020 04:41:54 PM (IST) |

An example of Type Definition - Delete

Admin

ANDOR

+ Add filter+ Add filter group

Operation (atlas\_operation)

=

TYPE\_DEF\_DELETE

X

Apply

Close

Business MetadataEnumerationsAuditsType System

> FiltersColumns

| Users                                                                                 | Operation       | Client ID | Result Count | Start Time                   | End Time                     |
|---------------------------------------------------------------------------------------|-----------------|-----------|--------------|------------------------------|------------------------------|
| ✓                                                                                     | TYPE_DEF_DELETE |           | 1            | 11/10/2020 07:27:04 PM (IST) | 11/10/2020 07:27:05 PM (IST) |
| Classification Type Deleted <ul style="list-style-type: none"><li>tag_KJBuc</li></ul> |                 |           |              |                              |                              |
| ✓                                                                                     | TYPE_DEF_DELETE |           | 1            | 11/10/2020 07:26:51 PM (IST) | 11/10/2020 07:26:51 PM (IST) |
| Classification Type Deleted <ul style="list-style-type: none"><li>child_tag</li></ul> |                 |           |              |                              |                              |

Showing 2 records From 1 - 25

Page Limit : 25

Atlas Export and Import Operations

An audit entry is created for every export and import operation.  
An example of - Export operation

**Admin**

AND OR + Add filter + Add filter group

Operation (atlas\_operation) = EXPORT ✕

Apply Close

Business Metadata Enumerations **Audits** Type System

> Filters Columns

| Users          | Operation | Client ID | Result Count | Start Time                   | End Time                     |
|----------------|-----------|-----------|--------------|------------------------------|------------------------------|
| <span>✓</span> | EXPORT    |           | 3            | 11/10/2020 07:18:24 PM (IST) | 11/10/2020 07:18:26 PM (IST) |

Export Entities And Options

hive\_db 3

params (1) {"fetchType": "FULL", "matchType": "startsWith"}

Showing 1 records From 1 - 25 Page Limit: 25

Each import audit entry provides information about the total number of entities imported, along with the number of entities imported with each Type Definition.

An example of - Import operation

**Admin**

AND OR + Add filter + Add filter group

Operation (atlas\_operation) = IMPORT ✕

Apply Close

Business Metadata Enumerations **Audits** Type System

> Filters Columns

| Users             | Operation | Client ID | Result Count | Start Time                   | End Time                     |
|-------------------|-----------|-----------|--------------|------------------------------|------------------------------|
| <span>&gt;</span> | IMPORT    |           | 2            | 11/12/2020 06:19:01 PM (IST) | 11/12/2020 06:19:01 PM (IST) |
| <span>&gt;</span> | IMPORT    |           | 3            | 11/12/2020 06:16:48 PM (IST) | 11/12/2020 06:16:53 PM (IST) |

Showing 2 records From 1 - 25 Page Limit: 25

## Atlas Server Operations

When you perform server related tasks, audit entries are logged.

When the Atlas server is started, an audit entry is logged. Also, when the server is started in the Active mode using High Availability (HA), an audit entry is logged. For more information, see [About Atlas High Availability](#).

An example of - Server Start operation



**Admin** ▼

AND OR + Add filter + Add filter group

Operation (atlas\_operation) = SERVER\_START ✕

Apply Close

Business Metadata Enumerations **Audits** Type System

> Filters Columns ▼

| Users | Operation    | Client ID | Result Count | Start Time                   | End Time                     |
|-------|--------------|-----------|--------------|------------------------------|------------------------------|
| >     | SERVER_START |           | N/A          | 11/03/2020 08:09:49 PM (IST) | 11/03/2020 08:10:11 PM (IST) |
| >     | SERVER_START |           | N/A          | 11/03/2020 08:15:10 PM (IST) | 11/03/2020 08:15:32 PM (IST) |
| >     | SERVER_START |           | N/A          | 11/03/2020 08:07:01 PM (IST) | 11/03/2020 08:07:25 PM (IST) |
| >     | SERVER_START |           | N/A          | 11/03/2020 04:40:49 PM (IST) | 11/03/2020 04:43:52 PM (IST) |

An example of - Server State Active operation

**Admin** ▼

AND OR + Add filter + Add filter group

Operation (atlas\_operation) = SERVER\_STATE\_ACTIVE ✕

Apply Close

Business Metadata Enumerations **Audits** Type System

> Filters Columns ▼

| Users | Operation           | Client ID | Result Count | Start Time                   | End Time                     |
|-------|---------------------|-----------|--------------|------------------------------|------------------------------|
| >     | SERVER_STATE_ACTIVE |           | N/A          | 11/03/2020 08:07:25 PM (IST) | 11/03/2020 08:07:25 PM (IST) |
| >     | SERVER_STATE_ACTIVE |           | N/A          | 11/03/2020 08:10:11 PM (IST) | 11/03/2020 08:10:11 PM (IST) |
| >     | SERVER_STATE_ACTIVE |           | N/A          | 11/03/2020 04:43:52 PM (IST) | 11/03/2020 04:43:52 PM (IST) |
| >     | SERVER_STATE_ACTIVE |           | N/A          | 11/03/2020 08:15:32 PM (IST) | 11/03/2020 08:15:32 PM (IST) |

## Examples of Audit Operations

Some examples of payload submission for audit operations.

An example of creating a Type Definition:

```
enumDefs:
1.days_of_week
entityDefs:
```

```

1.Country
2.State
3.Vehicle

relationshipDefs:
1.country_state_rel
curl --location --request POST -u admin:admin 'http://car123.test1234.root
.hwx.site:23400/api/atlas/v2/types/typedefs' \
--header 'Content-Type: application/json' \
--data-raw '{
  "enumDefs": [
    {
      "name": "days_of_week",
      "typeVersion": "1.0",
      "elementDefs": [
        {
          "ordinal": 1,
          "value": "MONDAY"
        },
        {
          "ordinal": 2,
          "value": "TUESDAY"
        },
        {
          "ordinal": 3,
          "value": "WEDNESDAY"
        },
        {
          "ordinal": 4,
          "value": "THURSDAY"
        },
        {
          "ordinal": 5,
          "value": "FRIDAY"
        },
        {
          "ordinal": 6,
          "value": "SATURDAY"
        },
        {
          "ordinal": 7,
          "value": "SUNDAY"
        }
      ]
    }
  ],
  "entityDefs": [
    {
      "category": "ENTITY",
      "createdBy": "admin",
      "updatedBy": "admin",
      "createTime": 1537261952180,
      "updateTime": 1537262097732,
      "version": 1,
      "name": "Vehicle",
      "description": "desc Vehicle",
      "typeVersion": "1.1",
      "attributeDefs": [
        {
          "name": "no_of_wheels",
          "typeName": "int",
          "isOptional": true,
          "cardinality": "SINGLE",
          "valuesMinCount": 1,

```

```

"valuesMaxCount": 1,
"isUnique": false,
"isIndexable": false,
"includeInNotification": false
}
},
{
"category": "ENTITY",
"createdBy": "admin",
"updatedBy": "admin",
"createTime": 1537261952180,
"updateTime": 1537262097732,
"version": 1,
"name": "Country",
"description": "desc Country",
"typeVersion": "1.1",
"attributeDefs": [
{
"name": "ISD_CODE",
"typeName": "string",
"isOptional": false,
"cardinality": "SINGLE",
"valuesMinCount": 1,
"valuesMaxCount": 1,
"isUnique": false,
"isIndexable": false,
"includeInNotification": false
}
]
},
{
"category": "ENTITY",
"createdBy": "admin",
"updatedBy": "admin",
"createTime": 1537261952180,
"updateTime": 1537262097732,
"version": 1,
"name": "State",
"description": "desc State",
"typeVersion": "1.1",
"attributeDefs": [
{
"name": "STD_CODE",
"typeName": "string",
"isOptional": false,
"cardinality": "SINGLE",
"valuesMinCount": 1,
"valuesMaxCount": 1,
"isUnique": false,
"isIndexable": false,
"includeInNotification": false
}
]
},
],
"relationshipDefs": [
{
"name": "country_state_rel",
"typeVersion": "1.1",
"relationshipCategory": "AGGREGATION",
"endDef1": {
"type": "Country",
"name": "state_st",

```

```

"isContainer": false,
"cardinality": "SINGLE",
"isLegacyAttribute": true
},
"endDef2": {
"type": "State",
"name": "country_ct",
"isContainer": true,
"cardinality": "SET"
},
"propagateTags": "NONE"
}
]
}'

```

An example of updating a Type Definition:

```

enumDefs:days_of_week
entityDefs:Country
curl --location --request PUT -u admin:admin 'http://car123.car123-1.root.
hwx.site:31000/api/atlas/v2/types/typedefs' \
--header 'Content-Type: application/json' \
--data-raw '{
"enumDefs": [
{
"name": "days_of_week",
"typeVersion": "1.0",
"elementDefs": [
{
"ordinal": 1,
"value": "MONDAY"
},
{
"ordinal": 2,
"value": "TUESDAY"
},
{
"ordinal": 3,
"value": "WEDNESDAY"
},
{
"ordinal": 4,
"value": "THURSDAY"
},
{
"ordinal": 5,
"value": "FRIDAY"
},
{
"ordinal": 6,
"value": "SATURDAY"
},
{
"ordinal": 7,
"value": "SUNDAY"
},
{
"ordinal": 8,
"value": "HOLIDAY"
}
]
}
]
}'

```

```

],
"entityDefs": [
{
"category": "ENTITY",
"createdBy": "admin",
"updatedBy": "admin",
"createTime": 1537261952180,
"updateTime": 1537262097732,
"version": 1,
"name": "Country",
"description": "desc Country Updated",
"typeVersion": "1.1",
"attributeDefs": [
{
"name": "ISD_CODE",
"typeName": "string",
"isOptional": false,
"cardinality": "SINGLE",
"valuesMinCount": 1,
"valuesMaxCount": 1,
"isUnique": false,
"isIndexable": false,
"includeInNotification": false
}
]
}
]
}]'

```

An example of deleting a Type Definition:

```

curl --location --request DELETE -u admin:admin
      'http://car123.car123-1.root.hwx.site:31000/api/atlas/v2/types/typeDef/name/Vehicle'

```

An example of exporting an Atlas entity:

```

'{
  "itemsToExport": [
    { "typeName": "DB", "uniqueAttributes": { "name": "Sales" } },
    { "typeName": "DB", "uniqueAttributes": { "name": "Reporting" } }
  ],
  { "typeName": "DB", "uniqueAttributes": { "name": "Logging" } }
  },
  "options": { "fetchType": "full" }
}'

```

For additional reference related to exporting entities, see <https://atlas.apache.org/#/ExportAPI>.

An example of importing an Atlas entity:

Performing an import operation should create an entry in the audits tab.

For additional reference related to exporting entities, see <https://atlas.apache.org/#/ImportAPI>.