



# **Common workflows and tasks**

## **Cloud Manager Automation**

NetApp

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# Common workflows and tasks

## Generate an NSS user ID

You can create a NetApp Support Site (NSS) user ID through the Cloud Manager web user interface. This ID is included when creating a Cloud Manager working environment.

### About this task

Registering NSS credentials with Cloud Manager and creating an NSS user ID enables subscription to the Cloud Volumes ONTAP system, product support and analytics. For information about related NSS administrative tasks, see [Manage NSS credentials](#).

### Before you begin

You must have a NetApp account (formerly Cloud Central account). You normally create this account when first signing in to Cloud Manager and it's displayed at the top of the web user interface. See [Learn about NetApp accounts](#) for more information.

### Steps

1. Navigate to the Cloud Manager web site using a browser:

<https://cloudmanager.netapp.com>

2. Sign in using your NetApp account (formerly Cloud Central account) credentials.
3. Click on the **?** icon at the top right of the page and select **Support**.
4. Navigate to the **NSS Management** tab and click **Add NSS Account**.
5. When prompted, click **Continue** which redirects you to a Microsoft login page.

NetApp uses Microsoft Azure Active Directory as the identity provider for authentication services specific to support and licensing.

6. Provide the NSS email address and password. After successful authentication, you will be redirected to the Cloud Manager page and an NSS user ID will be automatically generated.

### After you finish

You can use the generated NSS user ID when creating a working environment with your preferred licensing model and cloud provider. The NSS user ID is required with BYOL licensing and optional for the PAYGO subscription.

## Get the client and account identifiers

You can sign into the Cloud Manager web user interface to retrieve the client and account identifiers to use with the workflows. You can use these identifiers to access the metadata, authentication, and security related information.



This page includes two tasks describing how to use the Cloud Manager web user interface to retrieve the ID values. You can also use the Cloud Manager REST API to get the ID values. See [Get supported services](#) for more information.

## Get the client identifier

You can retrieve the client ID and use it with the x-agent-id HTTP request header.

### About this task

You need to access the client ID which is unique for each Cloud Manager Connector and then use it as the agent identifier.

### Before you begin

You must have a NetApp account (formerly Cloud Central account). You created this account when you first logged in to Cloud Manager and it was displayed at the top of the Cloud Manager user interface. See [Learn more about NetApp accounts](#) for more information.

### Steps

1. Navigate to the Cloud Manager web site using a browser:

<https://cloudmanager.netapp.com>

2. Sign in using your NetApp account (formerly Cloud Central account) credentials.
3. Click **Connector** at the top right of the page and select **Manage Connectors**.
4. On the **Manage Connectors** page, click the ellipses (...) icon.
5. Select the **Connector ID**. This value is based on the client ID.

You can use the Connector ID in the x-agent-id HTTP request header as shown in the workflow curl examples, `uzJbMFKEnuzi2ryLaENbCP52KBTXx0aIclients`.

## Get the account identifier

You can also retrieve the account ID.

### About this task

You can create multiple accounts and access the unique identifier for each account.

### Before you begin

You must have a NetApp account (formerly Cloud Central account). You created this account when you first logged in to Cloud Manager and it's displayed at the top of the Cloud Manager user interface. [Learn more about NetApp accounts](#).

### Steps

1. Navigate to the Cloud Manager web site using a browser:

<https://cloudmanager.netapp.com>

2. Sign in using your NetApp account (formerly Cloud Central account) credentials.
3. Click the **Account** drop-down and click **Manage Account** for the selected account.
4. In the **Overview** section copy the **Account ID** value.

# Create user token

You must generate a bearer token to authenticate and access the Cloud Manager REST API. There are two workflows available depending on the type of authentication. You need to select the correct workflow:

- [Federated](#)
- [Nonfederated](#)

## Create a user token with federated authentication

This workflow describes how to create an access token when using federated authentication.

### Before you begin

Review the parameters in the **JSON input example** for the second workflow step. In particular, you must have the client identifier.

### 1. Generate a NetApp refresh token

Navigate to [Refresh Token Generator](#) and generate a long-lived token. You need to provide this in the `refresh_token` JSON input parameter in the next step.

### 2. Generate the user token

This API call uses the *Auth0* authentication service and not the NetApp Cloud Manager service. See the URL in the curl example below and adjust for your environment as needed.

HTTP method	Resource path
POST	/oauth/token

### curl example

```
curl --location --request POST 'https://netapp-cloud-account.auth0.com/oauth/token' --header 'Content-Type: application/json' --d @JSONinput
```

### Input parameters

The JSON input example includes the list of input parameters.

### JSON input example

```
{
  "grant_type": "refresh_token",
  "refresh_token": "<REFRESH_TOKEN>",
  "client_id": "<CLIENT_ID>"
}
```

## Output

The JSON output example includes the list of returned values. The `expires_in` value is expressed in seconds.

### JSON output example

```
{
  "access_token": "<USER_TOKEN>",
  "id_token": "<ID_TOKEN>",
  "scope": "openid profile cc:update-password",
  "expires_in": 86400,
  "token_type": "Bearer"
}
```

## Create a user token with nonfederated authentication

This workflow describes how to create an access token when using non-federated authentication.

### Before you begin

Review the parameters in the **JSON input example** for the first workflow step. In particular, you must have the account credentials and the client identifier.

### 1. Generate the user token

This API call uses the *Auth0* authentication service and not the NetApp Cloud Manager service. See the URL in the curl example below and adjust for your environment as needed.

HTTP method	Resource path
POST	/oauth/token

### curl example

```
curl --location --request POST 'https://netapp-cloud-account.auth0.com/oauth/token' --header 'Content-Type: application/json' --d @JSONinput
```

### Input parameters

The JSON input example includes the list of input parameters.

### JSON input example

```
{
  "username": "user@my-company-demo.com",
  "scope": "openid profile",
  "audience": "https://api.cloud.netapp.com",
  "client_id": "<CLIENT_ID>",
  "grant_type": "password",
  "password": "userpassword",
  "Realm": "Username-Password-Authentication"
}
```

## Output

The JSON output example includes the list of returned values. The `expires_in` value is expressed in seconds.

## JSON output example

```
{
  "access_token": "<USER_TOKEN>",
  "id_token": "<ID_TOKEN>",
  "scope": "openid profile cc:update-password",
  "expires_in": 86400,
  "token_type": "Bearer"
}
```

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