



Create user token

Cloud Manager Automation

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August 17, 2021

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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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