



## Using REST APIs

- [Using REST APIs, on page 1](#)
- [Importing Configuration Using RESTful API, on page 2](#)
- [Exporting Configuration Using RESTful API, on page 2](#)

## Using REST APIs

This section explains how you can use REST APIs.

1. Create a user.

To create a new user, see **Adding Users** procedure in [Managing Users](#).

2. Call auth REST API to create a token.

Encode the username and password with base 64. Fill the encode output into the Authentication Header.

The following is a sample configuration to use REST API:

```
User: admin
Password: bell
```

```
Get the Base64 under Linux: echo -n 'admin:lab' | base64
Base64 encode output: YWRtaW46bGFi
```

```
curl -X POST "https://{hostname}/api/auth/v1/token" -H "accept: application/json" -H
"authorization: Basic YWRtaW46bGFi"
```

```
Response code: 201
Response body
{
  "access_token":
  "eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJyYb2x1IjoiaXBpLWZkZWluIiwic2FsdCI6IiQ2daamt
  IWhd6RUNzS1EiLCJleHAiOiE1NjQ2NTA2MTd9.x7ccHcOn6fLvHc_ajLJxQEY1ftvR1ZaJH9K_YZxlues",
  "refresh_token": "lYYtZqgVhnsnBJgSHbigRzeEaLnWziMpHJKVzgHA",
  "refresh_token_expire": 1567221017,
  "token_type": "jwt"
}
```

3. You can use the `access_token` created in the previous step to make individual REST API calls.

The following is a sample configuration to make individual REST API calls, with user as `access_token` with header `Authorization: Bearer`.

```
curl -X GET https://{hostname}/api/rbac/v1/identitymgmt/user -H "accept: application/json"
-H "Authorization: Bearer
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJ1c2VybmFtZSI6ImFkbWwuaWwiciwzSI6ImplLWFlkdWlufGwaSI2aWV3ZjY8YXplWmVhZFcwbnh0GktYWRTaW4iLCJzYW4iOiJ0aiZU9ZRD0RFFBsVFVwaEglWCIsInV4cCI6MTY4Mjc3Nzg2NDwic3ViIjoieWRtaW4ifQ.g7TFghIusN4uN6ok0Ey8sANPTqPw_VdWmtqklzkNDU"
-k
{
  "userDetailList":
  [
    {
      "groupList":
      [
        "admin",
        "api-admin",
        "api-editor",
        "api-viewer"
      ],
      "username": "admin",
      "passwordExpiryPeriod": "90"
    }
  ]
}
```

## Importing Configuration Using RESTful API

You can import the Cisco Operations Hub configuration and check the status of the import operation using the following APIs:

```
https://<HostName>/utility/v1/config/import
https://<HostName>/utility/v1/config/operation/status
```

## Exporting Configuration Using RESTful API

You can export the Cisco Operations Hub configuration and check the status of the export operation using the following APIs:

```
https://<HostName>/utility/v1/config/export
https://<HostName>/utility/v1/config/operation/status
```