



# Work with the management node REST API

HCI

NetApp  
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# Work with the management node REST API

## Management node REST API UI overview

By using the built-in REST API UI ([https://\[mNode IP\]/mnode](https://[mNode IP]/mnode)), you can run or understand APIs relating to the management node services, including proxy server configuration, service level updates, or asset management.

Tasks you can perform with REST APIs:

- [Get authorization to use REST APIs](#)
- [Enable Active IQ and NetApp HCI monitoring](#)
- [Add compute and controller assets to the management node](#)
- [Change the storage cluster administrator password](#)
- [Configure a proxy server for the management node](#)
- [Use the REST API to collect NetApp HCI logs](#)

## Find more information

- [Access the management node](#)
- [NetApp HCI Documentation Center](#)
- [NetApp HCI Resources Page](#)

## Get authorization to use REST APIs

You must authorize before you can use APIs for management services in the REST API UI. You do this by obtaining an access token.

To obtain a token, you provide cluster admin credentials and a client ID. Each token lasts approximately ten minutes. After a token expires, you can authorize again for a new access token.

Authorization functionality is set up for you during management node installation and deployment. The token service is based on the storage cluster you defined during setup.

### *Before you begin*

- Your cluster version should be running NetApp Element software 11.3 or later.
- You should have deployed a management node running version 11.3 or later.

### *Steps*

1. Open the REST API UI on the management node:

```
https://[management node IP address]/mnode
```

2. Click **Authorize**.



Alternately, you can click on a lock icon next to any service API.

3. Complete the following:

- a. Enter the cluster user name and password.
- b. Select **Request body** from the Type drop-down list.
- c. Enter the client ID as **mnode-client**.
- d. Do not enter a value for the client secret.
- e. Click **Authorize** to begin a session.



If the error message **Auth Error TypeError: Failed to fetch** is returned after you attempt to authorize, you might need to accept the SSL certificate for the MVIP of your cluster. Copy the IP in the Token URL, paste the IP into another browser tab, and authorize again.

The Available authorizations screen indicates **Authorized**.

4. Close the Available authorizations dialog box.



If you try to run a command after the token expires, a **401 Error: UNAUTHORIZED** message appears. If you see this, authorize again.

## Find more information

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- [NetApp HCI Resources Page](#)

## Configure a proxy server

If your cluster is behind a proxy server, you must configure the proxy settings so that you can reach a public network.

A proxy server is used for telemetry collectors and reverse tunnel connections. You can enable and configure a proxy server using the REST API UI if you did not already configure a proxy server during installation or upgrade. You can also modify existing proxy server settings or disable a proxy server.

The command to configure a proxy server updates and then returns the current proxy settings for the

management node. The proxy settings are used by Active IQ, the NetApp HCI monitoring service that is deployed by the NetApp Deployment Engine, and other Element software utilities that are installed on the management node, including the reverse support tunnel for NetApp Support.

#### *Before you begin*

- You should know host and credential information for the proxy server you are configuring.
- Ensure that your cluster version is running NetApp Element software 11.3 or later.
- Ensure that you have deployed a management node running version 11.3 or later.

#### *Steps*

1. Access the REST API UI on the management node by entering the management node IP address followed by `/mnode`:

```
https://[management node IP]/mnode
```

2. Click **Authorize** or any lock icon and complete the following:
  - a. Enter the cluster user name and password.
  - b. Enter the client ID as `mnode-client`.
  - c. Click **Authorize** to begin a session.
  - d. Close the window.
3. Click **PUT /settings**.
4. Click **Try it out**.
5. To enable a proxy server, you must set `use_proxy` to true. Enter the IP or host name and proxy port destinations.

The proxy user name, proxy password, and SSH port are optional and should be omitted if not used.

```
{
  "proxy_ip_or_hostname": "[IP or name]",
  "use_proxy": [true/false],
  "proxy_username": "[username]",
  "proxy_password": "[password]",
  "proxy_port": [port value],
  "proxy_ssh_port": [port value: default is 443]
}
```

6. Click **Execute**.

## **Find more information**

- [NetApp HCI Documentation Center](#)
- [NetApp HCI Resources Page](#)

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