# Update management services

## HCI

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# Update management services

You can update your management services to the latest bundle version after you have installed management node 11.3 or later.

Beginning with the Element 11.3 management node release, the management node design has been changed based on a new modular architecture that provides individual services. These modular services provide central and extended management functionality for NetApp HCI and SolidFire all-flash storage systems. Management services include system telemetry, logging, and update services, the QoSSIOC service for Element Plug-in for vCenter Server, NetApp Hybrid Cloud Control (HCC), and more.

*About this task*

- You must upgrade to the latest management services bundle before upgrading your Element software.

For the latest management services release notes describing major services, new features, bug fixes, and workarounds for each service bundle, see the management services release notes

*Update options*

You can update management services using the NetApp Hybrid Cloud Control (HCC) UI or the management node REST API:

- Update management services using Hybrid Cloud Control (Preferred method)
- Update management services using the management node API
- Update management services using the management node API for dark sites

# Update management services using Hybrid Cloud Control

You can update your NetApp management services using NetApp Hybrid Cloud Control (HCC).

Management service bundles provide enhanced functionality and fixes to your installation outside of major releases.

*Before you begin*

- You must be running management node 11.3 or later.
- You must have upgraded your management services to at least version 2.1.326. NetApp Hybrid Cloud Control upgrades are not available in earlier service bundles.

For a list of available services for each service bundle version, see the Management Services Release Notes.

*Steps*

1. Open a web browser and browse to the IP address of the management node: <code><a href="https://<ManagementNodeIP>" class="bare">https://<ManagementNodeIP></a>;</code>
2. Log in to NetApp Hybrid Cloud Control by providing the storage cluster administrator credentials.
3. Click **Upgrade** near the top right of the interface.
4. On the Upgrades page, select the **Management Services** tab.

   The Management Services tab shows the current and available versions of management services software.

   If your installation cannot access the internet, only the current software version is shown.

5. If your installation can access the internet and if a management services upgrade is available, click **Begin Upgrade**.
6. If your installation cannot access the internet, do the following:
   a. Follow the instructions on the page to download and save a management services upgrade package to your computer.
   b. Click **Browse** to locate the package you saved and upload it.

After the upgrade begins, you can see the upgrade status on this page. During the upgrade, you might lose connection with NetApp Hybrid Cloud Control and have to log back in to see the results of the upgrade.

# Update management services using the management node API

Users should ideally perform management services updates from NetApp Hybrid Cloud Control. You can however manually update management services using the REST API UI from the management node.

*Before you begin*

- You have internet access.
- You have deployed a NetApp Element software management node 11.3 or later.
- Your cluster version is running NetApp Element software 11.3 or later.

*Steps*

1. Open the REST API UI on the management node: `https://[management node IP]/mnode`
2. Click **Authorize** and complete the following:
   a. Enter the cluster user name and password.
   b. Enter the client ID as `mnode-client` if the value is not already populated.
   c. Click **Authorize** to begin a session.
   d. Close the window.
3. (Optional) Confirm available versions of management node services: `GET /services/versions`
4. (Optional) Get detailed information about the latest version: `GET /services/versions/latest`
5. (Optional) Get detailed information about a specific version: `GET /services/versions/{version}/info`
6. Perform one of the following management services update options:
   a. Run this command to update to the most recent version of management node services: `PUT /services/update/latest`
   b. Run this command to update to a specific version of management node services: `PUT /services/update/{version}`
7. Run `GET/services/update/status` to monitor the status of the update.

   A successful update returns a result similar to the following example:

```
{
"current_version": "2.10.29",
"details": "Updated to version 2.14.60",
"status": "success"
}
```

# Update management services using the management node API for dark sites

Users should ideally perform management services updates from NetApp Hybrid Cloud Control. You can however manually upload, extract, and deploy a service bundle update for management services to the management node using the REST API. You can run each command from the REST API UI for the management node.

*Before you begin*

- You have deployed a NetApp Element software management node 11.3 or later.
- Your cluster version is running NetApp Element software 11.3 or later.
- You have downloaded the service bundle update from the NetApp Support Site to a device that can be used in the dark site.

*Steps*

1. Open the REST API UI on the management node: `https://[management node IP]/mnode`
2. Click **Authorize** and complete the following:
   a. Enter the cluster user name and password.
   b. Enter the client ID as `mnode-client` if the value is not already populated.
   c. Click **Authorize** to begin a session.
   d. Close the window.
3. Upload and extract the service bundle on the management node using this command: `PUT /services/upload`
4. Deploy the management services on the management node: `PUT /services/deploy`
5. Monitor the status of the update: `GET /services/update/status`

   A successful update returns a result similar to the following example:

```
{
"current_version": "2.10.29",
"details": "Updated to version 2.14.60",
"status": "success"
}
```

# Find more information

- NetApp HCI Documentation Center
- NetApp HCI Resources Page

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