

Setting up a management hub

Connecting a hub and onboarding devices

Lenovo

Management hubs

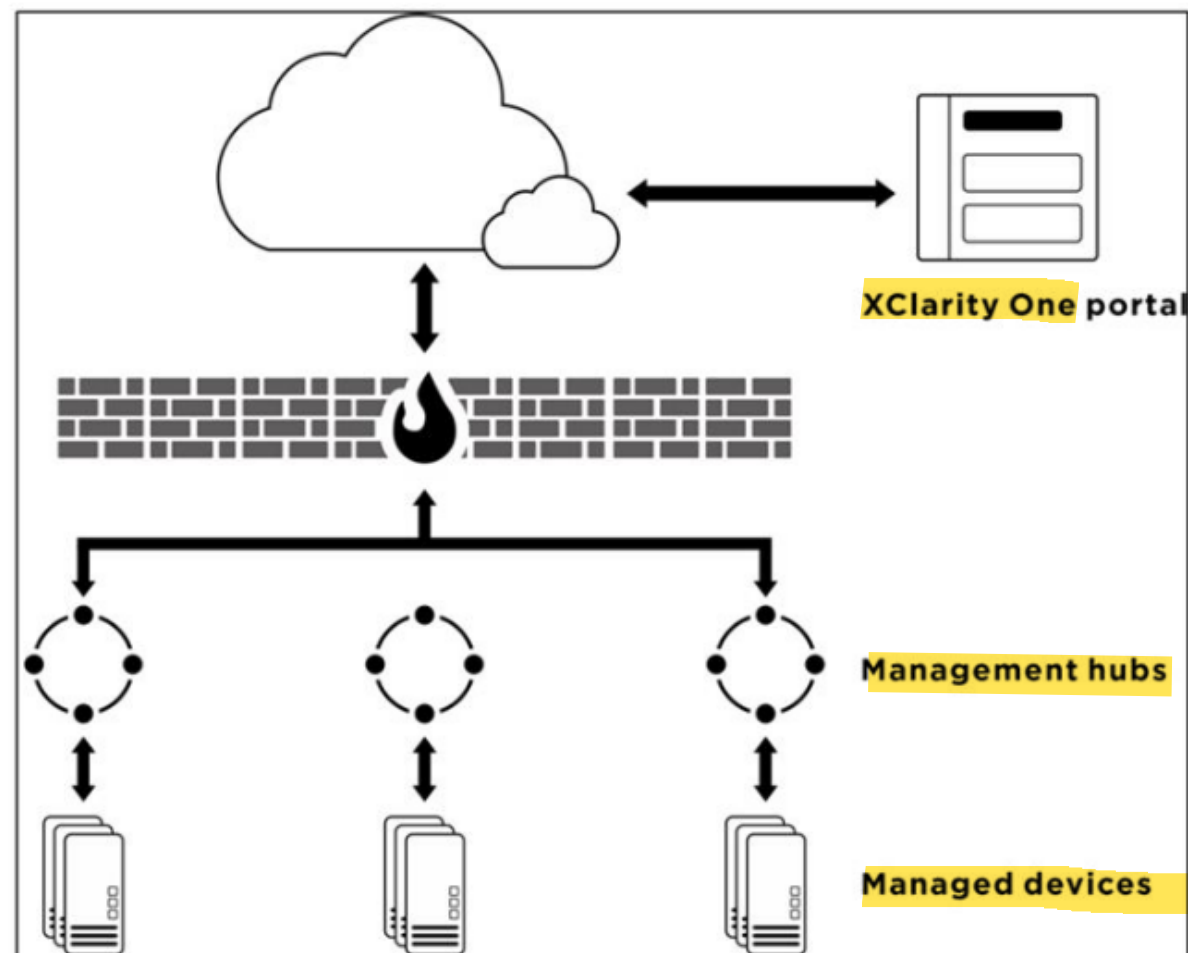
XClarity One monitors and manages devices through one or more lightweight device managers, called management hubs. A management hub runs as a virtual appliance in a customer's datacenters, potentially across multiple sites.

Before installing and configuring a management hub:

- Ensure that you have reviewed the prerequisites, including hardware requirements and recommendations for the management hub
- Ensure that the resources that you intend to manage are supported and are running the latest firmware versions

The following hypervisors are supported for the operation of a management hub as a virtual appliance:

- Linux KVM (.qcow2)
- Microsoft Windows Server with Hyper-V (.vhd)
- VMware vCenter ESXi (.ova)



Installing and configuring a management hub

You can download the latest XClarity One Management Hub image from the XClarity One portal. Install the management hub on the host system and then work through the following steps:

- Power on the virtual appliance
- Configure the IP address
- Sign in for the first time with the default username and password of USERID and PASSWORD
(These should be changed at the first possibility)
- Review and accept the End User License Agreement

Users can then log in to the management hub web interface.

Add hub

Enter the hub registration token that was generated by the management hub. To get the hub registration token, log in to the management hub, click Connections, and then click Connect to portal.

[Download XClarity Management Hub](#)

Connecting the management hub to XClarity One

After the management hub has been installed, it can be connected to XClarity One. To make the connection, work through the following steps:

Click each number in turn to see the procedure.

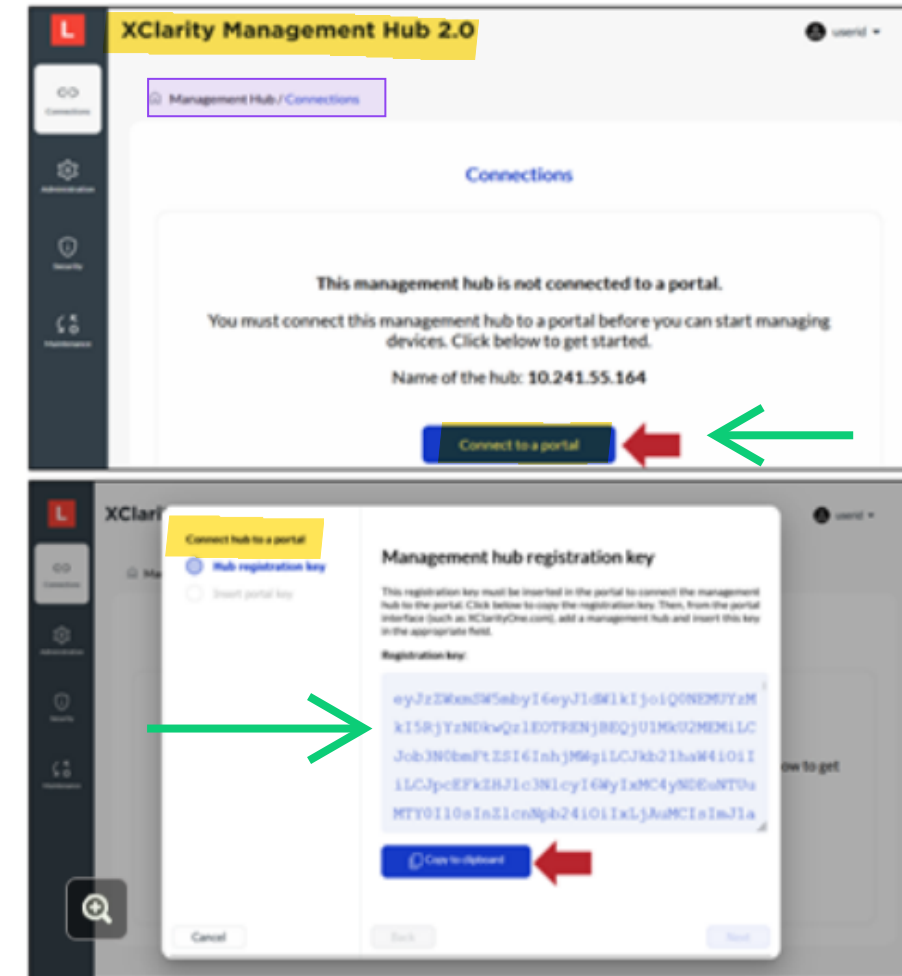
Step



Connecting the management hub to XClarity One

Step 1. Log in to the management hub and create the management hub registration key.

- Go to the **Connections** page and click **Connect to Portal**.
- Click **Copy to clipboard** to copy the registration key.

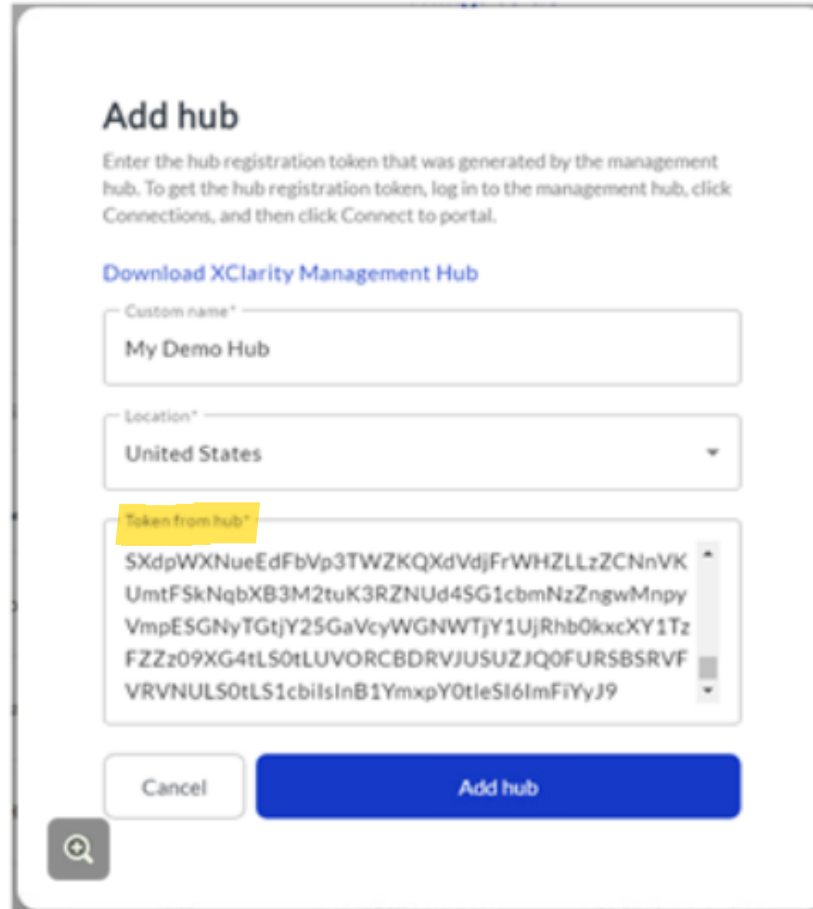


Step 1 2 3 4

Connecting the management hub to XClarity One

Step 2. Add the management hub registration key to XClarity One.

- On the XClarity One web page, go to **Organization Management**.
- Go on the **Management Hubs** card and click the **+** button.
- Provide a custom name and location.
- Paste the hub registration key in the **Token from hub** field.
- Click **Add hub**. The **Token** pop-up window will be displayed.
- Click **Copy to Clipboard** to copy the portal registration key, and then close the window.



Add hub

Enter the hub registration token that was generated by the management hub. To get the hub registration token, log in to the management hub, click Connections, and then click Connect to portal.

[Download XClarity Management Hub](#)

Custom name*
My Demo Hub

Location*
United States

Token from hub*
SXdpWXNueEdFbVp3TWZKQXdVdjFrWHZLLzZCNnVK
UmtFSkNqbXB3M2tuK3RZNUd4SG1cbmNzZngwMnpy
VmpESGNYTGtjY25GaVcyWGNWTjY1UjRhb0kxcXY1Tz
FZZz09XG4tLS0tLUVORCBDRVJUSUZJQ0FURSBRSRVF
VRVNULS0tLS1cbiIsInB1YmxpY0tleSI6ImFiYyJ9

Cancel Add hub



Token

Copy the portal registration token by clicking Copy to clipboard. Then, log in to the management hub to complete the registration process.

Token for hub
eyJhbGciOiJIUzI1NiIsInR5cCI6IkpXVCJ9.eyJkYXRhIjo7Im9yZ0I6IjoiQ1ZzQzI2M2MjU1RkU3NEVOMUxMzUzO
DU2NzQ1Mjk4RkQ1LCJjZXJ0aWZpY2F0ZSI6Ij0tLS0tQ
kVHSU4gQ0VSVEIGSUNBVEU1LS0tLVxUTUIRnpEQ0N
BN1NnQXdlQkFzSVVVSU1FoS0h0MDIsdU8ydkkrXFrT

Copy to clipboard

Step 1—2—3—4



Connecting the management hub to XClarity One

Step 3. Add the portal registration key to the management hub.

- In the management hub, paste the portal registration key in the **Portal registration key** page.
- Click **Connect** to complete the connection process.

Connect hub to a portal

☒ Hub registration key

☐ Insert portal key

Portal registration key

Insert the registration key that was generated from the portal. Then click Connect to complete the connection.

Click Back to restart the connect process and generate a new management hub registration key.

Insert the portal registration key*

dv1HyZs_ohG_-pKVVbIF7j4AVfrgW-uS7IRYLq2EL_bO90aBsMsrUy-
pu4u64dwJr-pEcqGRcaTsUOatLytY0_M-
fBeJYm8qq47vMkQJnXISzmwUHpK9DqXlyY4ezOu6j9xNHojqIZ-
ZwiKMzyITNx34vY7ex9rDveygRBQ2RRsJRbajVecrPIjFpSK4

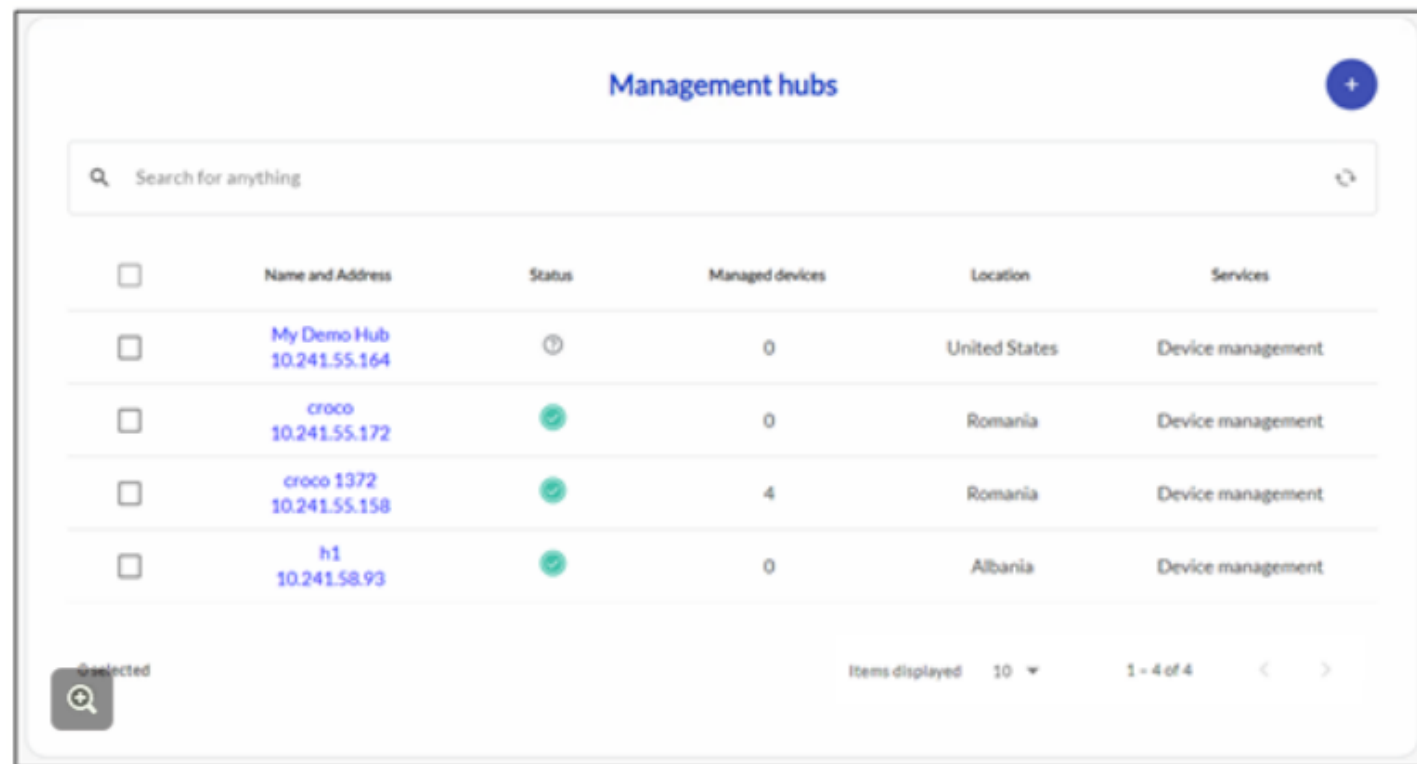
Cancel Back **Connect**

Step



Connecting the management hub to XClarity One

Step 4. After the connection has been made, a **hub instance** will be **displayed** on the **XClarity One web page**.



The screenshot shows the 'Management hubs' interface in XClarity One. It features a search bar at the top, a table of management hubs, and a bottom section with a magnifying glass icon, '0 selected', 'Items displayed: 10', and '1 - 4 of 4'.

	Name and Address	Status	Managed devices	Location	Services
<input type="checkbox"/>	My Demo Hub 10.241.55.164	🕒	0	United States	Device management
<input type="checkbox"/>	croco 10.241.55.172	✅	0	Romania	Device management
<input type="checkbox"/>	croco 1372 10.241.55.158	✅	4	Romania	Device management
<input type="checkbox"/>	h1 10.241.58.93	✅	0	Albania	Device management


Step



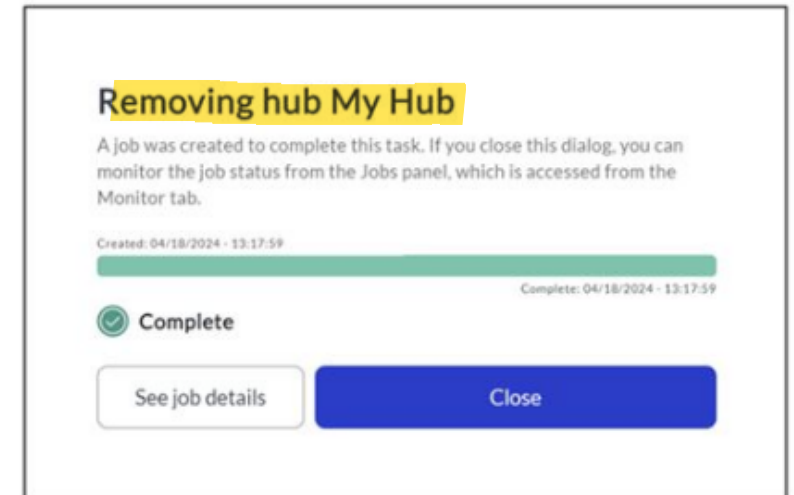
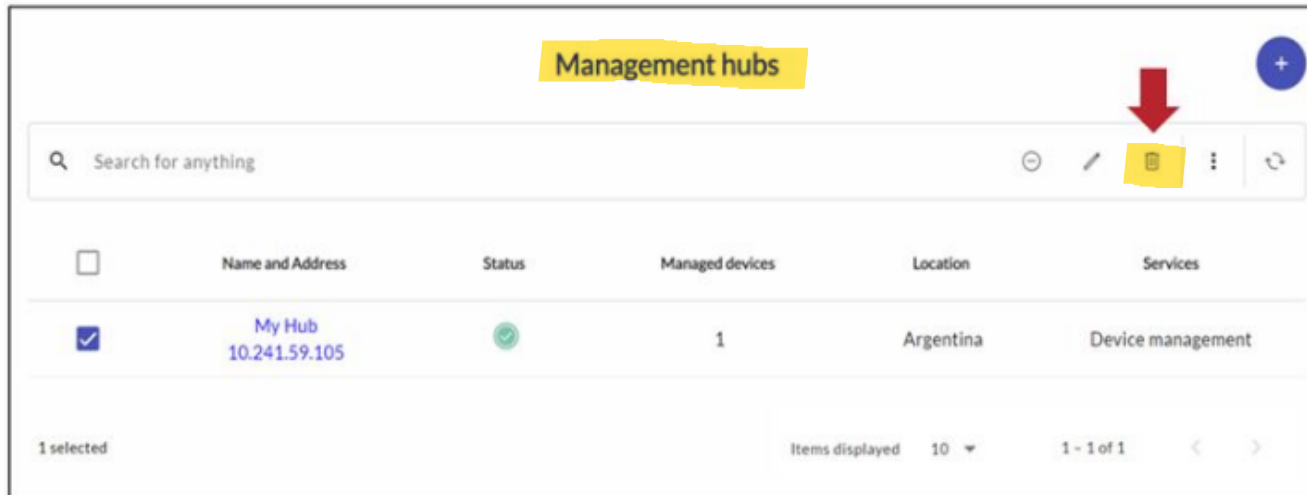
Disconnecting a management hub from XClarity One

If you disconnect a management hub from XClarity One, all data for the hub will be deleted from the XClarity One portal. Device and system data will be retained in the management hub, which will continue to manage and receive data from connected devices. If the management hub is reconnected to the XClarity One portal, these devices will then appear as managed devices.

Work through the following steps to disconnect a management hub from XClarity One:

- Go to the **Organization Management** page
- Select the hub from the **Management hubs** table
- Click  to remove the selected hub

You will be able to track the progress of the operation in a pop-up window.



Automatically discover devices

Devices must be discovered by a management hub before they can be managed by XClarity One.

Devices can be discovered automatically, with the management hub scanning the local network for supported devices at 15-minute intervals.

Manually discover devices

Devices must be discovered by a management hub before they can be managed by XClarity One.


From the XClarity One portal, supported devices can manually discovered in other subnets using specific IP addresses, a range of IP addresses, or by probing for manageable devices on specific IP subnets.

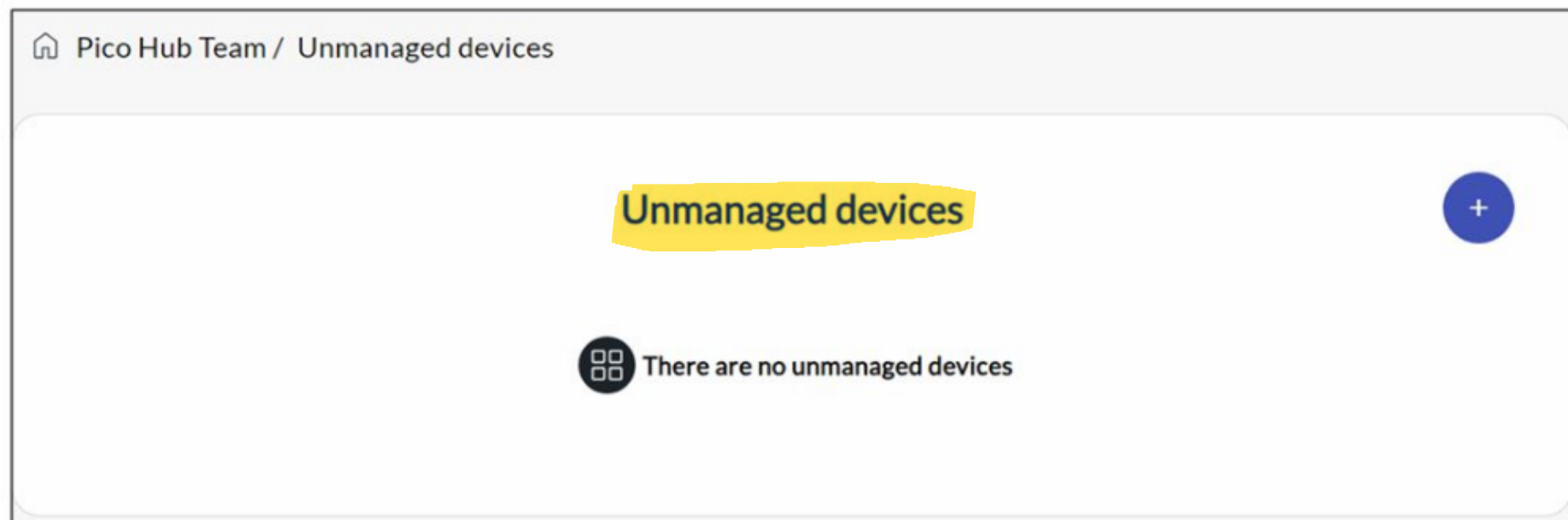
Click each number in turn to see the procedure.

Step



Manually discover devices

Step 1: To discover devices, select the **Unmanaged devices** tab from the context menu on the **Device management** screen. Click the add icon  in the **Unmanaged devices** panel, and then follow the steps in the wizard to identify the devices that you want to discover and the management hub that you want to use for the discovery.



Step



Manually discover devices

Step 2: A pop-up window will be displayed. Enter the necessary information to identify the devices you want to discover and the management hub you want to use for the discovery.

Manually discover devices

XClarity One can discover devices in your environment by using specific IP addresses, using a specific range of IP addresses, or probing for manageable devices that are on a specific IP subnet.

☒ **Specific IP addresses**

Specify one or more IPv4 addresses for the devices that you want to discover.

Management hub *
acozma rc.04-1485

☐ **Range of addresses**

Specify one or more ranges of IP addresses for the devices that you want to discover.

☐ **Subnets**

Specify the IP subnet on which your devices reside. XClarity One probes the subnet for

Cancel

Discovering manageable devices

A job was created to complete this task. If you close this dialog, you can monitor the job status from the Jobs panel, which is accessed from the Monitor tab.

Created: 05/14/2024 - 02:26:22

 **Running**

See job details

Close

Step

1—2



Onboarding devices


The final step in onboarding devices is to add them to the list of **Managed devices**.

Click each number in turn to see the procedure.

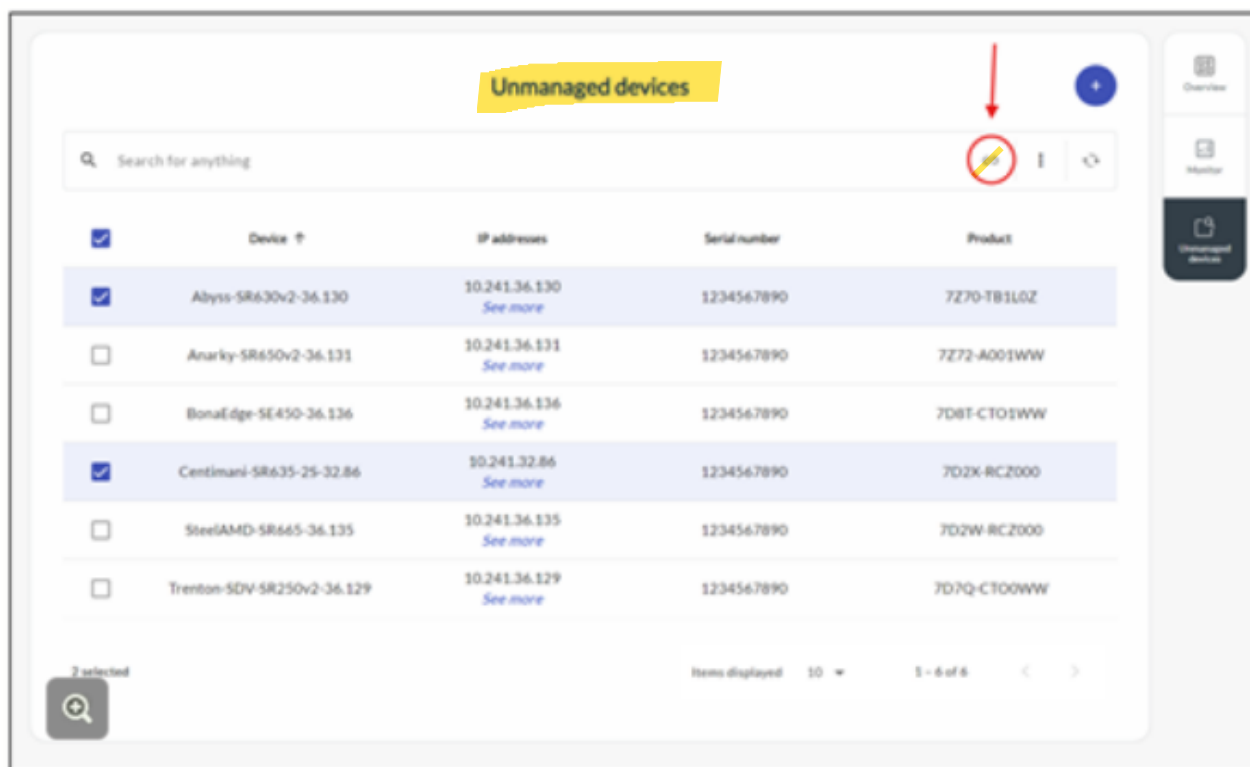
Step



Onboarding devices

Step 1: Select devices from the **Unmanaged devices** table and click the  icon to open the management wizard.

If a device is not discovered by a healthy management hub, a pop-up message will be displayed stating that this device is not manageable.



Step 1 — 2



Onboarding devices

Step 2: When the management wizard is displayed, enter the **username** and **password** associated with the **selected devices**, and then click **Next**. You will be able to track the progress of the operation in a pop-up window.

Manage devices

- ☒ Select devices
- ☒ **Provide current credentials**
- ☐ Provide new credentials

Provide current credentials

Provide the username and password to use to access all selected devices.

Username*

username

Password*

.....

Cancel

Back

Next

Manage devices

A job was created to complete this task. If you close this dialog, you can monitor the job status from the Jobs panel, which is accessed from the Monitor tab.

Created: 04/17/2024 - 13:29:04 - Pending

Pending

See job details

Close

Step

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Removing devices

To **remove** a managed device, navigate to the **Device management** page, and then to **Managed devices**. Select devices, and then select **Unmanage**.

The screenshot displays the 'Managed devices' page. At the top, there is a search bar and several action icons. Below this is a table with the following columns: a selection checkbox, 'Name / IP', 'Status', 'Product', and 'Coll'. The table lists five devices, with the first two selected. A context menu is open over the selected devices, showing the following options: 'Unmanage', 'Update', 'Power on', 'Soft restart', 'Soft power off', 'Hard power off', 'Hard restart', 'Restart system setup', and 'Restart management controller'.

	Name / IP	Status	Product	Coll
<input checked="" type="checkbox"/>	Hodaka-SE350-32.37 10.241.32.37		ThinkSystem SE350 Planner (2123IT CPU) 7Z46 CTO1WW	
<input checked="" type="checkbox"/>	SpawnAMD-SR645-32.87 10.241.32.87		ThinkSystem SR645 MB 7D2Y CTO1WW	
<input type="checkbox"/>	Centimani-SR635-2S-32.86 10.241.32.86		ThinkSystem SR635-2S 7D2X RCZ000	
<input type="checkbox"/>	Anarky-SR650v2-32.61 10.241.32.61		ThinkSystem SR650 V2 MB 7Z72 A001WW	

2 selected

Items displayed 10 1 - 4 of 4

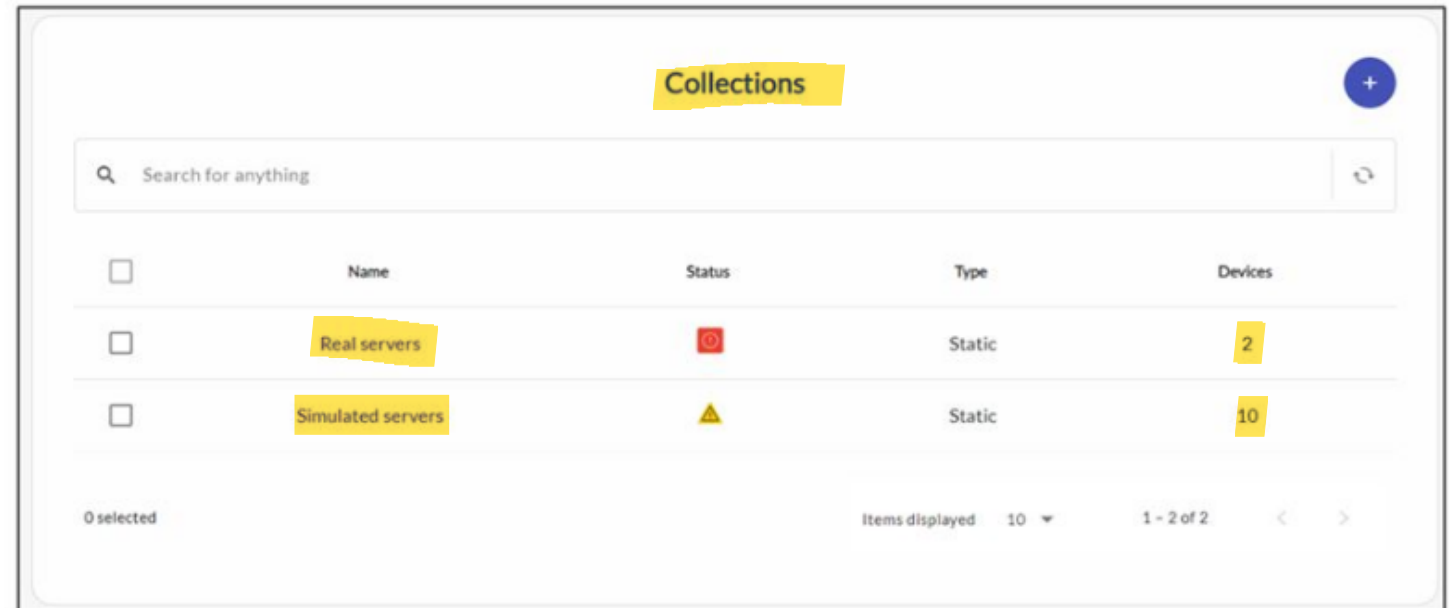
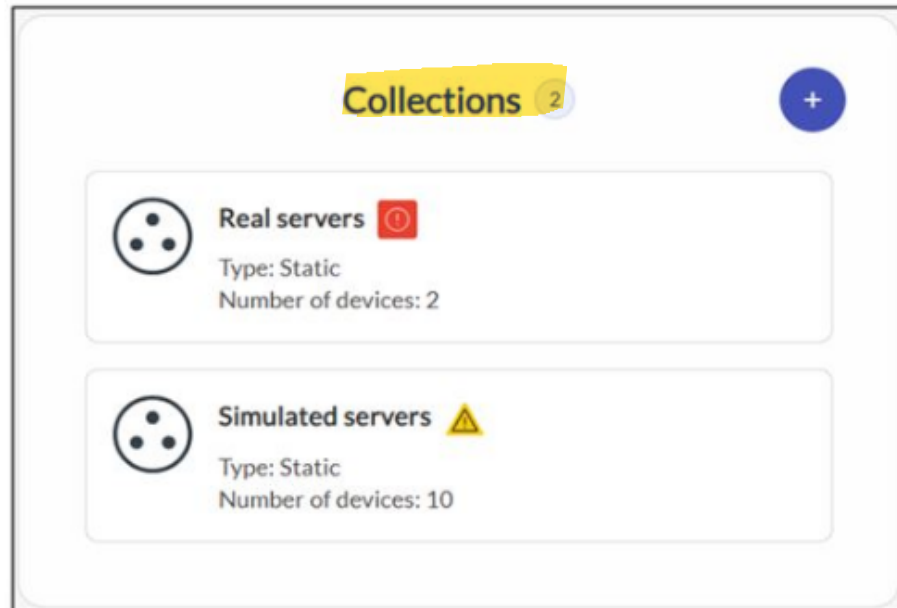
- Unmanage
- Update
- Power on
- Soft restart
- Soft power off
- Hard power off
- Hard restart
- Restart system setup
- Restart management controller

Collections

A collection is a static grouping of devices that can be managed together. Collections make it easier to see statistics for a selected group of devices. These statistics include health statistics, events, and alerts.


A device can belong to one or more collections.

To create a collection, click the + button on the dashboard or by the collections table. The collection creation wizard will then be displayed.

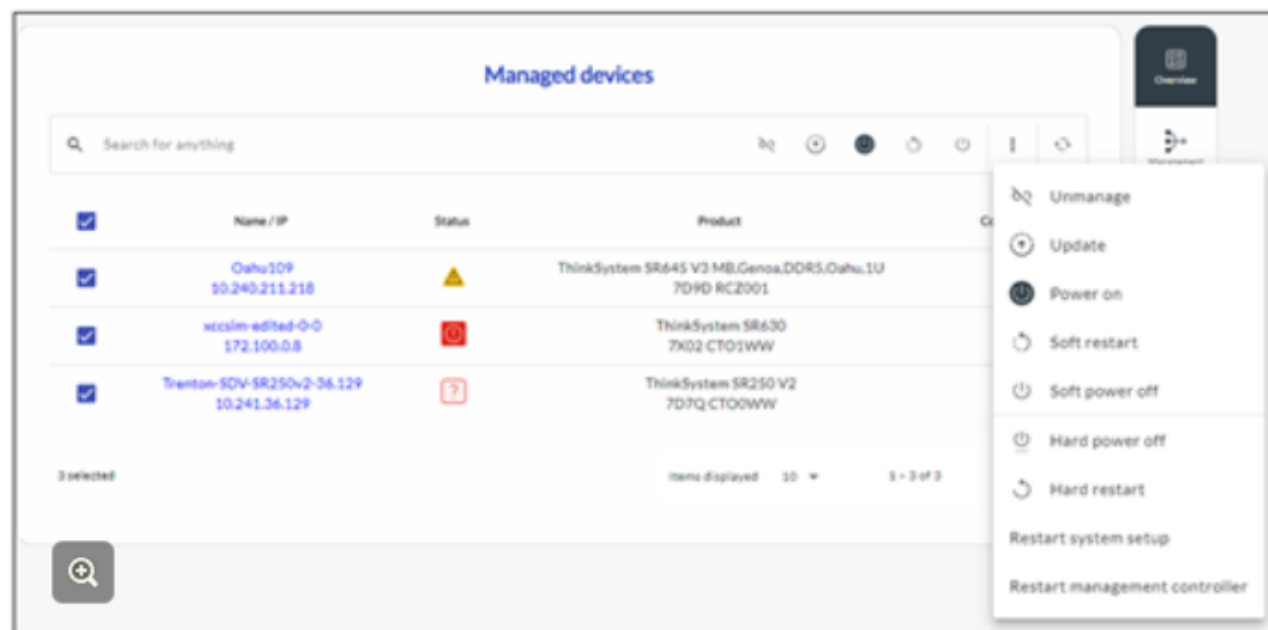


Power operations

The **current power status** of devices can be seen by selecting **Managed devices**.

On this page, you can also perform a **soft power off** or **power on** by clicking the **power** icon . You can also select specific devices and perform the following power operations:

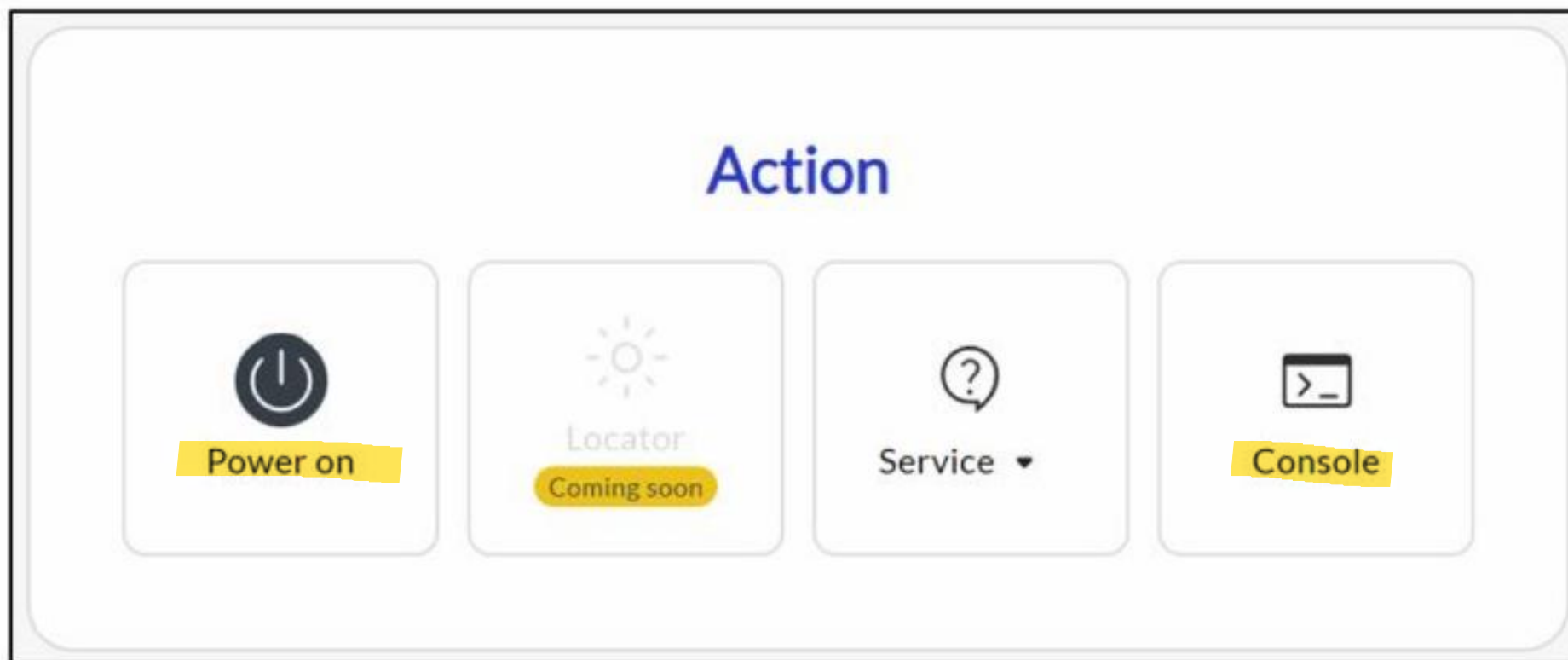
- **Power on:** Power on the device
- **Soft power off:** Shut down the operating system and then power off the device
- **Hard power off:** Power off the device immediately
- **Soft restart:** Shut down the operating system (if applicable) and then restart the device
- **Hard restart:** Restart the device immediately
- **Restart system setup:** Restart the device to the BIOS/UEFI (F1) Setup
- **Restart management controller:** Restart the baseboard management controller



Remote access

Click the **Console** button in the **Action** panel on the **Device** page to open the management controller web interface (XCC). User credentials must be entered manually.

Note: Single sign-on (SSO) is not supported.



Things to do

General user guide

Lenovo

Things to do overview

After logging in to XClarity One, a **Things to do** section can be seen at the top of the screen. It serves as a guide to let users know **what requires attention**, and different tasks clearly shown in different boxes.

There are currently **six types of things** to do:

- **Discover new devices** – if no managed devices are connected
- **Manage new devices** – if the discovered devices are not managed by the XClarity One portal (Click [HERE](#) to see pictures)
- **Alerts relating to specific servers**
- **Alerts about a hub losing connection** to XClarity One
- **Warning or Critical Memory Utilization** – if the customer alerts are set
- **Warning or Critical Processor Utilization** – if the customer alerts are set (Click [HERE](#) to see a picture)

To dismiss a thing to do, click the dots in the upper right corner of the box and select either **Dismiss for me** or **Dismiss for everyone**.

