

[Central](#) / Central On-Premises

 17-Nov-25

Central On-Premises

HPE Aruba Networking Central On-Premises (COP) is a variant of HPE Aruba Networking Central, a cloud management platform for the security-first, AI-powered network and security solutions developed for HPE customers of various sizes in a range of industries. COP enables easy, efficient network management by combining industry-leading functionality with an intuitive user interface, allowing network administrators and help desk staff to support and control the on-premises network. This chapter outlines the procedure to set up and install COP and provides step-by-step guidance to add devices to the deployment.

▼ Table of contents

- [Central On-Premises](#)
 - [Requirements](#)
 - [Hardware Requirements](#)
 - [Network Requirements](#)
 - [FQDN and IP Address Requirements](#)
 - [ISO Installation](#)
 - [Network Interface Setup](#)
 - [Software Package Installation](#)
 - [Cluster Setup](#)
 - [Create Sites](#)
 - [Device Onboarding](#)
 - [Enable Auto-Provisioning and Auto-Subscribe](#)
 - [AP Onboarding Prerequisites](#)
 - [Mobility Gateway Onboarding Prerequisites](#)
 - [AOS-CX Switch Onboarding Prerequisites](#)
 - [Assign Device to Site and Device Function](#)
 - [Configuration and MRT](#)

Feedback

Requirements

This section highlights the hardware and network requirements for the successful installation of COP.

Hardware Requirements

COP can be purchased as an appliance, pre-installed from the factory, to ensure that servers meet hardware requirements. COP is deployed as a cluster with a minimum of 3 nodes. Supported cluster sizes include 3, 5, 7, 9 and 11.

For custom installations, the table below specifies COP hardware requirements for HPE servers. COP installation is supported only on select models of HPE servers. Exact requirements may vary by server model.

Server Model	CPU Requirement	RAM Requirement	Memory Requirement	RAID Configuration	Network Adapter	Intelli
HPE DL360 Gen 10 server	40 physical cores	512 GB RAM	3.49 TB	RAID 0	Intel Ethernet 10Gb 2-port 562SFP+ Adapter for HPE	10G
HPE DL360 Gen 11 server	24 physical cores	512 GB RAM	8 TB	RAID 6	Intel E810-XXVDA2 Ethernet 10/25G 2-port SFP28 OCP3 Adapter for HPE	10G

Note: COP supports deployments that include a mix of HPE DL360 Gen 10 and Gen 11 servers.

COP requires 10 Gbps network operation and supports only the following cables and transceivers:

SKU	Description
J9281D	HPE Aruba Networking 10Gb SFP+ to SFP+ 1m Direct Attach Cable
J9283D	HPE Aruba Networking 10Gb SFP+ to SFP+ 3m Direct Attach Cable
J9285D	HPE Aruba Networking 10Gb SFP+ to SFP+ 7m Direct Attach Cable
J9150D	HPE Aruba Networking 10G SFP+ LC SR 300m OM3 MMF Transceiver

Before proceeding with the integrated-lights-out (iLO) based installation, the COP server must meet the following minimum requirements:

- **NIC version:** 11.1.1
- **ROM:** 2.68
- **iLO:** 2.72
- Servers are TPM-provisioned.
- All hard drives are SSDs. Installation is not supported for HDDs or hybrid drives.

Network Requirements

Required network steps to build a cluster successfully using a pre-installed appliance or custom server include:

- Connect all COP appliance iLO interfaces to the management network.
- Verify that iLO interfaces have a DHCP address and default IP gateway.
- Verify that all COP appliances are physically connected to the same datacenter using 10G DAC or optical connections.
- Assign all cluster uplink ports to the same VLAN. Cluster members require Layer 2 adjacency.
- Ensure that the NTP server is reachable by the COP appliances on the 10G connected network, as configured in the [Cluster Setup](#) procedure.

FQDN and IP Address Requirements

A fully-qualified DNS name (FQDN) is required for each COP appliance and for the COP cluster's virtual IP (VIP) address. All FQDNs must be resolvable by COP managed devices (access points, gateways, and switches). COP also requires four additional FQDNs that support cluster operations and resolve to the cluster's VIP.

The following table provides sample DNS values for a five node cluster:

Node	FQDN	IP Address
Cluster Virtual-IP	cop.owlab.net	100.100.13.9
Node 1	cop-1.owlab.net	100.100.13.10
Node 2	cop-2.owlab.net	100.100.13.11
Node 3	cop-3.owlab.net	100.100.13.12
Node 4	cop-4.owlab.net	100.100.13.13
Node 5	cop-5.owlab.net	100.100.13.14

The following table provides examples of the four additional cluster-level FQDNs using `<cluster_fqdn>` as a variable:

FQDN Format	Purpose	Example
<code><cluster_fqdn></code>	Central-UI home page access from the browser	cop.owlab.net

FQDN Format	Purpose	Example
central-<cluster_fqdn>	Central-UI NMS page access from the browser	central-cop.owlab.net
apigw-<cluster_fqdn>	Central NBAPI access from applications	apigw-cop.owlab.net
ccs-user-api-<cluster_fqdn>	Central-UI API access	ccs-user-api-cop.owlab.net
sso-<cluster_fqdn>	Central-UI authentication page access	sso-cop.owlab.net

Note: The primary cluster FQDN is a standard PTR record pointing to the cluster VIP. The remaining cluster-level FQDNs are CNAME alias records that point to the primary cluster FQDN.

ISO Installation

When using appliances with pre-installed COP, skip this section and proceed to [Network Interface Setup](#).

This procedure outlines the steps to upload and install the ISO image on a custom server. This process also can be used to upgrade to a newer version of COP. Contact your HPE Aruba Networking sales representative or partner to obtain access to the ISO image.

For fast and reliable installation, host the ISO image on an HTTP/HTTPS server reachable via the iLO network connection. Alternatively, upload the ISO image from a local device using the local PC option.

Step 1 Open a web browser and connect to the iLO using its IP address. Login with administrator credentials for a custom server, or with **copilo** credentials on a COP appliance. The **copilo** credentials are:

- **Username:** *copilo*
- **Password:** <server-serial-number>

Step 2 On the left pane, click the command line and select **HTML5 Console**.

iLO 5
2.96 Aug 17 2023

Information

- System Information
- Firmware & OS Software
- iLO Federation
- Remote Console & Media
- Power & Thermal
- Performance
- iLO Dedicated Network Port
- iLO Shared Network Port
- Remote Support
- Administration
- Security
- Management
- Lifecycle Management

HTML5 Console

.NET Console

Java Web Start Console

Wake-Up Monitor

Information - iLO Overview

Overview **Security Dashboard** **Session List** **iLO Event Log**

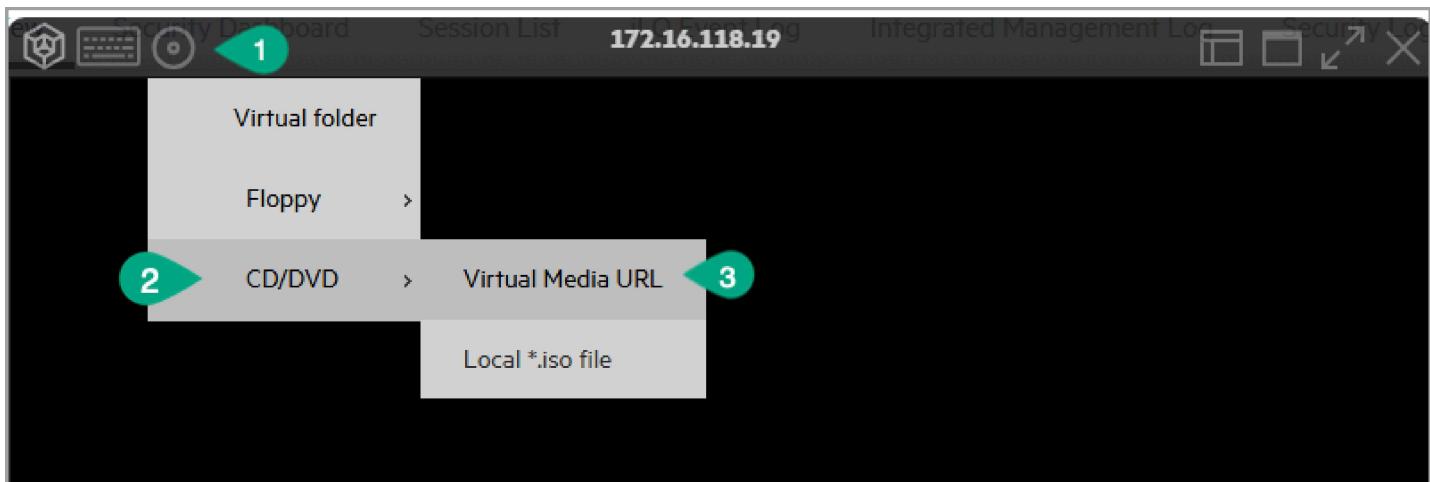
Server



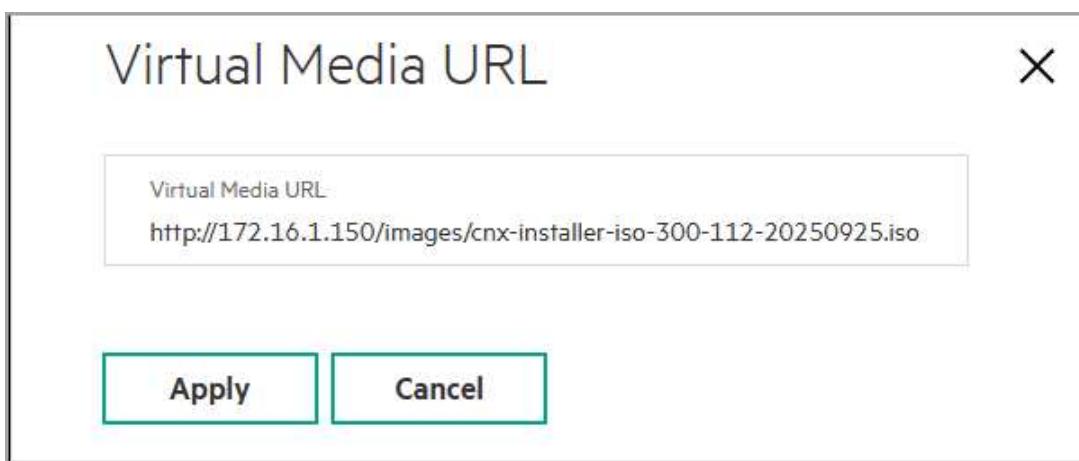
Status

Server Health	✓ OK
Health LED	✓ OK
iLO Health	✓ OK
iLO Security	🛡 Risk
Server Power	● ON
UID Indicator	∅ UID OFF
Trusted Platform Module	Present: Enabled
Module Type	TPM 1.2
microSD Flash Memory Card	Not Present
Connection to HPE	⚠ Not registered
AMS	∅ Not available

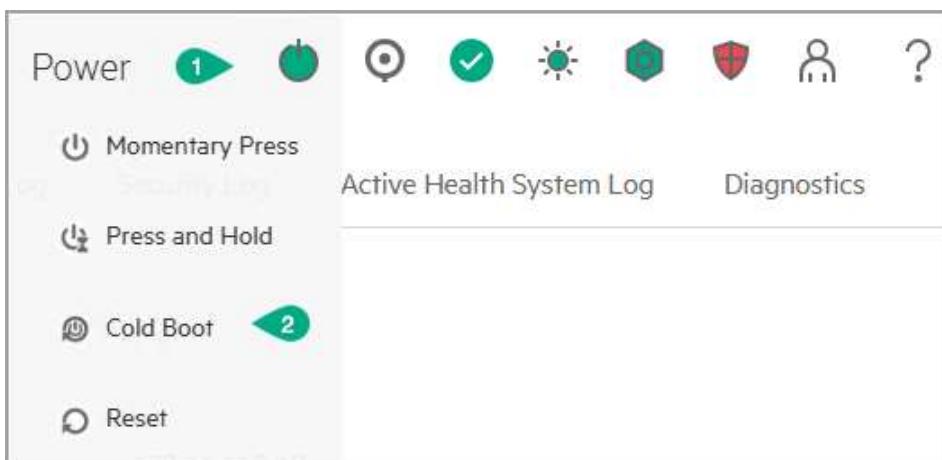
Step 3 Right-click the **Virtual Media** icon at the top left, select **CD/DVD**, then click **Virtual Media URL**.



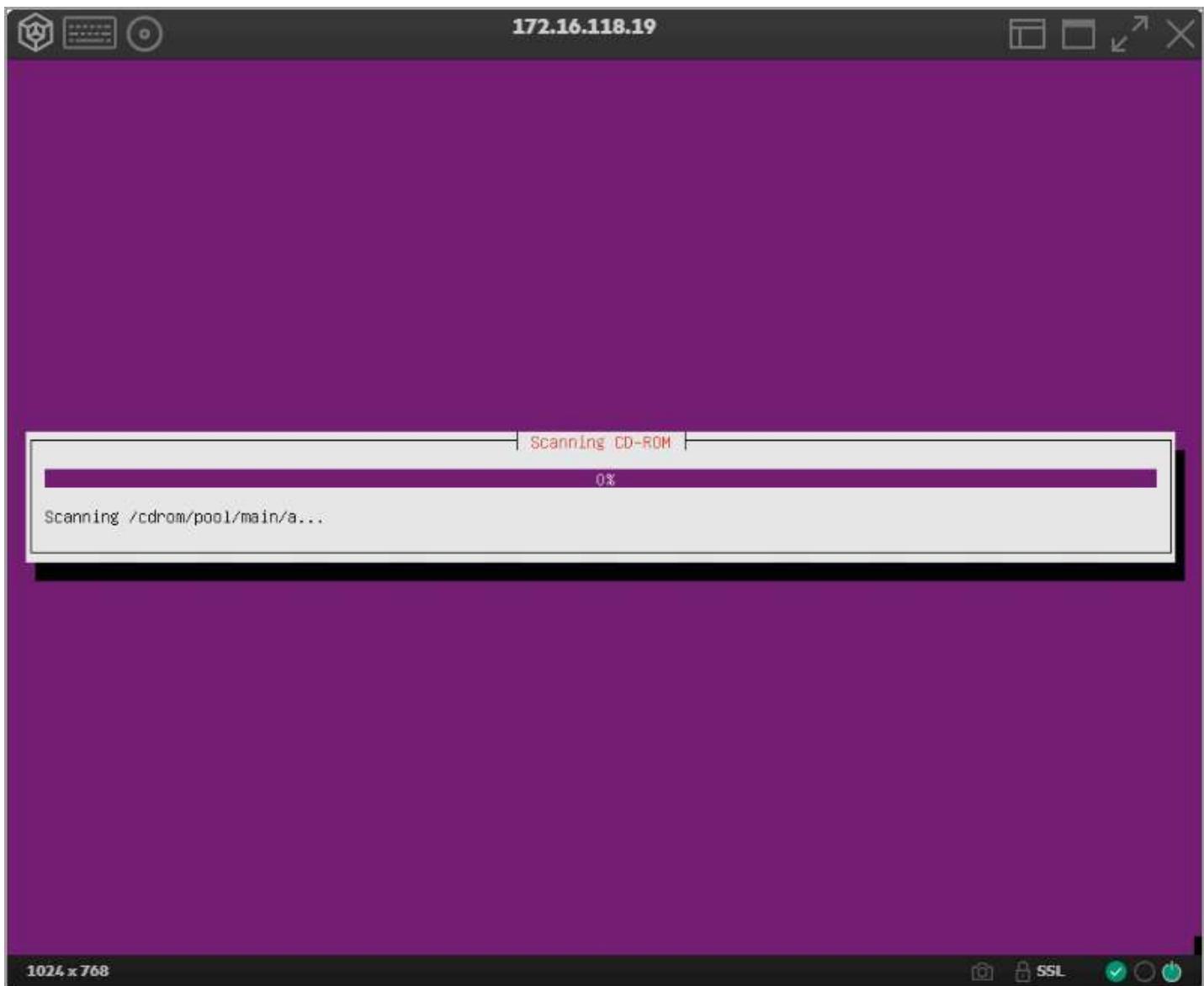
Step 4 Enter the location of the ISO image on the remote web server. Click **Apply**.



Step 5 Reboot the server by clicking the **Power** icon at the top right section of the main screen and selecting **Cold Boot**.



Step 6 Wait for the server to complete the boot sequence. COP installation begins automatically upon successful boot.



The ISO installation process takes about an hour to complete.

Network Interface Setup

This section details the steps to configure the permanent network settings for a COP appliance. This process is repeated for each appliance added to the cluster.

Note: This procedure applies to both pre-installed appliances and custom server installations.

Step 1 Open a web browser and connect to the COP appliance iLO. Login using administrator credentials or **copilo** credentials.

Step 2 On the left pane, click the command line and select **HTML5 Console**.

The screenshot shows the iLO 5 interface. The top bar displays "iLO 5" and the date "2.96 Aug 17 2023". The left sidebar lists various management categories: Information, System Information, Firmware & OS Software, iLO Federation, Remote Console & Media, Power & Thermal, Performance, iLO Dedicated Network Port, iLO Shared Network Port, Remote Support, Administration, Security, Management, and Lifecycle Management. A central panel titled "Information - iLO Overview" contains tabs for Overview, Security Dashboard, Session List, and iLO Event Log. The "Overview" tab is selected. Below the tabs is the heading "Server". To the right of "Server" is a large, faint image of a server rack. Below "Server" is the heading "Status". To the right of "Status" is a table of system status indicators:

Item	Status
<u>Server Health</u>	✓ OK
<u>Health LED</u>	✓ OK
<u>iLO Health</u>	✓ OK
<u>iLO Security</u>	🛡 Risk
<u>Server Power</u>	● ON
<u>UID Indicator</u>	∅ UID OFF
<u>Trusted Platform Module</u>	Present: Enabled
<u>Module Type</u>	TPM 1.2
<u>microSD Flash Memory Card</u>	Not Present
<u>Connection to HPE</u>	⚠ Not registered
<u>AMS</u>	∅ Not available

At the bottom of the central panel, there is a list of management consoles: HTML5 Console (selected), .NET Console, Java Web Start Console, and Wake-Up Monitor.

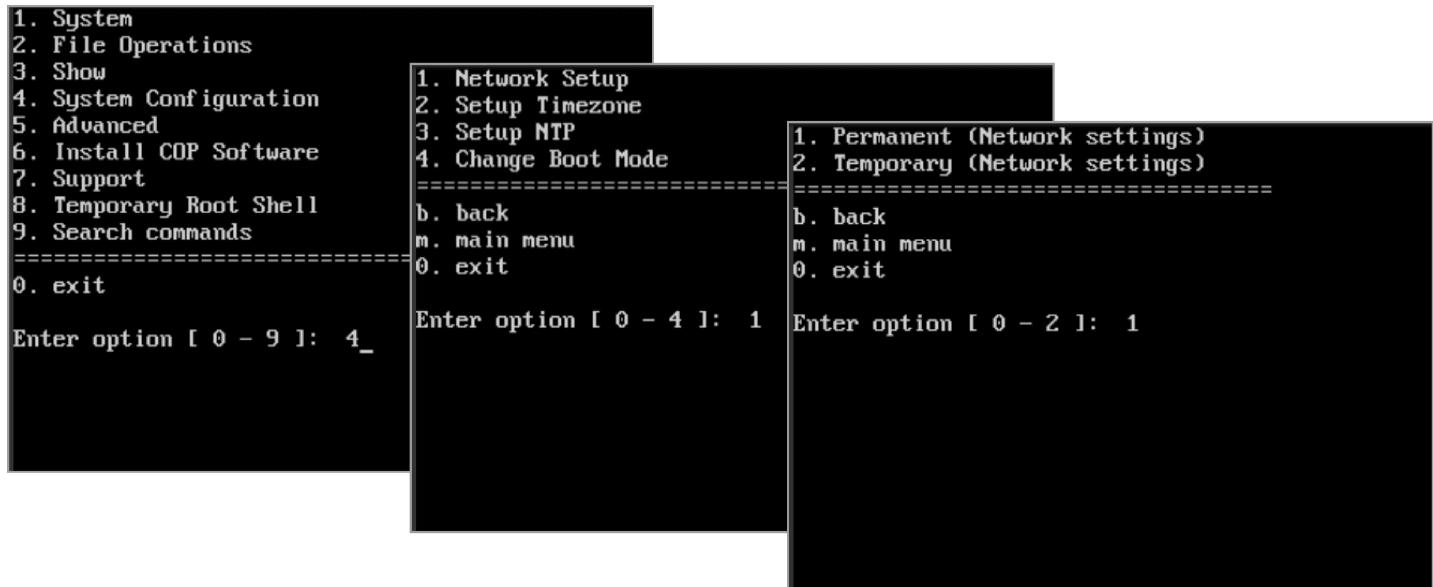
Step 3 Login to the console with following credentials:

- **Username:** *copadmin*
- **Password:** < serial number of the appliance >

```
Ubuntu 22.04.5 LTS localhost tty1
```

```
localhost login: copadmin  
Password:
```

Step 4 Navigate to **System Configuration > Network Setup** and select **Permanent (Network Settings)**.



Step 5 Enter the following information as prompted.

- **Interface name:** *ens1f1*
- **IP address:** *100.100.13.10*
- **Subnet mask:** *255.255.255.240*
- **Gateway:** *100.100.13.1*
- **DNS:** *10.2.120.198*
- **Secondary DNS:** *10.2.120.199*
- **COP Hostname/FQDN:** *cop-1.owlab.net*
- **Timezone:** *UTC*

```
Note: Node IP and FQDN cannot be modified after cluster setup
Network settings exist; will be reset to new value
```

Network Settings

```
To list available interfaces, enter 'list'
Enter interface name [ens1f1]: ens1f1
Enter IP Address [100.100.13.10]: 100.100.13.10
Enter Subnet mask [255.255.255.240]: 255.255.255.240
Enter Gateway [100.100.13.1]: 100.100.13.1
Enter DNS [10.2.120.198]: 10.2.120.198
```

```
Secondary DNS is optional. Press ENTER to proceed or type "delete" to delete the existing Secondary DNS .
Enter Secondary DNS: 10.2.120.199
```

```
Network settings exist; will be reset to new value
Enter COP Hostname/FQDN: cop-1.owlab.net
To list timezones, enter 'list'
Enter timezone [UTC]: UTC
```

```
===== Updated Network Settings =====
```

Hostname	:	cop-1.owlab.net
IP Address	:	100.100.13.10
Subnet Mask	:	255.255.255.240
Gateway	:	100.100.13.1
DNS	:	10.2.120.198
Secondary DNS	:	10.2.120.199
Timezone	:	UTC

```
===== Setting pam and pwquality configurations
```

```
Pam and pwquality configurations updated successfully
```

```
Created symlink /etc/systemd/system/basic.target.wants/disable-ipv6.service → /etc/systemd/system/disable-ipv6.service.
Press [Enter] key to continue...
```

① Note: The interface name may vary depending on the appliance and interface used for the 10G uplink.

To find the active interface, go to the **System Information** section on the iLO Web UI.

Software Package Installation

When using appliances with pre-installed COP, skip this section and proceed to [Cluster Setup](#).

The following process installs the COP software package. For fast and reliable installation, host the software package on an HTTP/HTTPS server reachable via the COP network interface. Before proceeding with this section, verify that the network interface configuration is complete. This process is repeated for each appliance to be added to the cluster.

Step 1 Login to the COP appliance CLI menu and select **File Operations**.

```
1. System
2. File Operations
3. Show
4. System Configuration
5. Advanced
6. Support
7. Setup Cluster
8. Temporary Root Shell
9. Search commands
=====
0. exit

Enter option [ 0 - 9 ]: 2
```

Step 2 Select 3. Upload via (HTTP/HTTPS).**Step 3** Enter the full file path to file on the web server. Press ENTER.**Step 4** Verify the checksum to ensure that the file package downloaded successfully. Press ENTER to continue.

```

1. Upload via (SCP)
2. Upload via (SFTP)
3. Upload via (HTTP/HTTPS)
4. Download File from COP
5. Delete file
=====
b. back
n. main menu
o. exit

Enter option [ 0 - 5 ]: 3 2
This will copy a file from the url to COP server
Enter full url path for file : http://172.16.1.150/images/cnx-on-prem_apps_pkg_112-20250925-prod.tar.gz 3
cnx-on-prem_apps_pkg_112-202509 100%[=====>] 132.63G 358MB/s in 5m 54s
Upload file successful.
Please verify the below calculated MD5Sum
#0f0134b1caec600778cf4980cf50ca /var/airwave/appliance/localdisk/cnx-on-prem_apps_pkg_112-20250925-prod.tar.gz
Press [Enter] key to continue... _ 4

```

Step 5 Go back to the main menu, then select **Install COP Software**.**Step 6** Enter the option to choose the tarball file. This begins the installation process.

```

1. System
2. File Operations
3. Show
4. System Configuration
5. Advanced
6. Install COP Software
7. Support
8. Temporary Root Shell
9. Search commands
=====
0. exit

Enter option [ 0 - 9 ]: 6
The following tar.gz archives were found; select one:
1) /var/airwave/appliance/localdisk/cnx-on-prem_apps_pkg_112-20250925-prod.tar.gz
Use number to select a file or 'stop' to cancel: 1

```

Step 7 Press ENTER and reboot the appliance when the installation is done.**⚠ Caution:** Do not reboot the appliance until the installation is complete.

Cluster Setup

Following COP software installation, a cluster is built for scaling and redundancy. Before proceeding, verify that the FQDNs defined in the [FQDN and IP Address Requirements](#) section resolve properly.

Step 1 Launch the web UI on any COP appliance by entering the URL in the following format.

- **Format:** `https://< COP server IP address >:4343` (e.g., `https://100.100.13.10:4343`)

Step 2 At the login prompt, enter the the following credentials:

- **Username:** `copadmin`
- **Password:** `< serial number of the appliance >`

Step 3 On the **Node Addition** page, click the + icon to add hosts.

Hostname	IP Address	Serial Number	Version
cop-1owlab.net	100.100.13.10	3M1D1712G4	3.0.0.1

Step 4 Enter the FQDN for another COP appliance and click **Add to cluster** at the bottom of the page. Repeat this process for each server.

Node Addition

Hostname of the node *

Add to cluster

Step 5 When the server list is complete, click **Next**.

STEP 1 OF 4

Node Addition

Add nodes to form a cluster. Supported cluster sizes are 3, 5, 7, 9 and 11.

Hostname	IP Address	Serial Number	Version
cop-1.owlab.net	100.100.13.10	3M1D1712G4	3.0.0.1
cop-2.owlab.net	100.100.13.11	3M1D0L126Z	3.0.0.1
cop-3.owlab.net	100.100.13.12	3M1D1712GD	3.0.0.1
cop-5.owlab.net	100.100.13.14	3M1D1712G1	3.0.0.1
cop-4.owlab.net	100.100.13.13	3M1D1712FY	3.0.0.1

Next

Step 6 On the **Version Selection** page, select the cluster software version from the dropdown and click **Next**.

STEP 2 OF 4

Version Selection

Choose the software version for the cluster.

Version

3.0.0.1

Only the software versions that are available within the chosen nodes are listed as choices. Note that further update to software might be needed after cluster formation.

Next

Step 7 On the **Cluster Details** page, enter the following values and click **Next**.

- **Cluster FQDN:** *cop.owllab.net*
- **POD IP Range:** *10.240.0.0/16*
- **Service IP range:** *10.239.0.0/23*
- **NTP server:** *10.2.120.198*
- **Secure NTP:** *unselected*

STEP 3 OF 4

Cluster Details

Details needed to setup a Central On-Premises cluster.

Cluster FQDN *

cop.owlab.net

For accessing the cluster

Pod IP Range *

10.240.0.0/16

/16 private IP range for Internal cluster communications

Service IP Range *

10.239.0.0/23

/23 private IP range for Internal cluster communications

NTP Server *

10.2.120.198

For time synchronization between the nodes of a cluster



Secure NTP

Note: The Pod IP range must be a subnet with a mask of /16 and the Cluster IP must be a subnet with mask /23. Ensure that these IP ranges do not conflict. These IP ranges must be reserved for the internal COP cluster network and should not be routable to an external network.

Step 8 Enter the password for the cluster and CLI username. Click **Finish**.

Cluster Username
admin@cop.owlab.net
④ Credentials for accessing the entire Cluster via the GUI

Password

Password must include at least 1 letter in uppercase, 1 letter in lowercase, 1 digit & 1 special character
④ Password should not be dictionary word
Password must have at least 8 characters

Repeat Password

CLI Username
copadmin
④ Credentials for accessing CLI of each node of the cluster

Password

Password must include at least 1 letter in uppercase, 1 letter in lowercase, 1 digit & 1 special character
④ Password should not be dictionary word
Password must have at least 8 characters

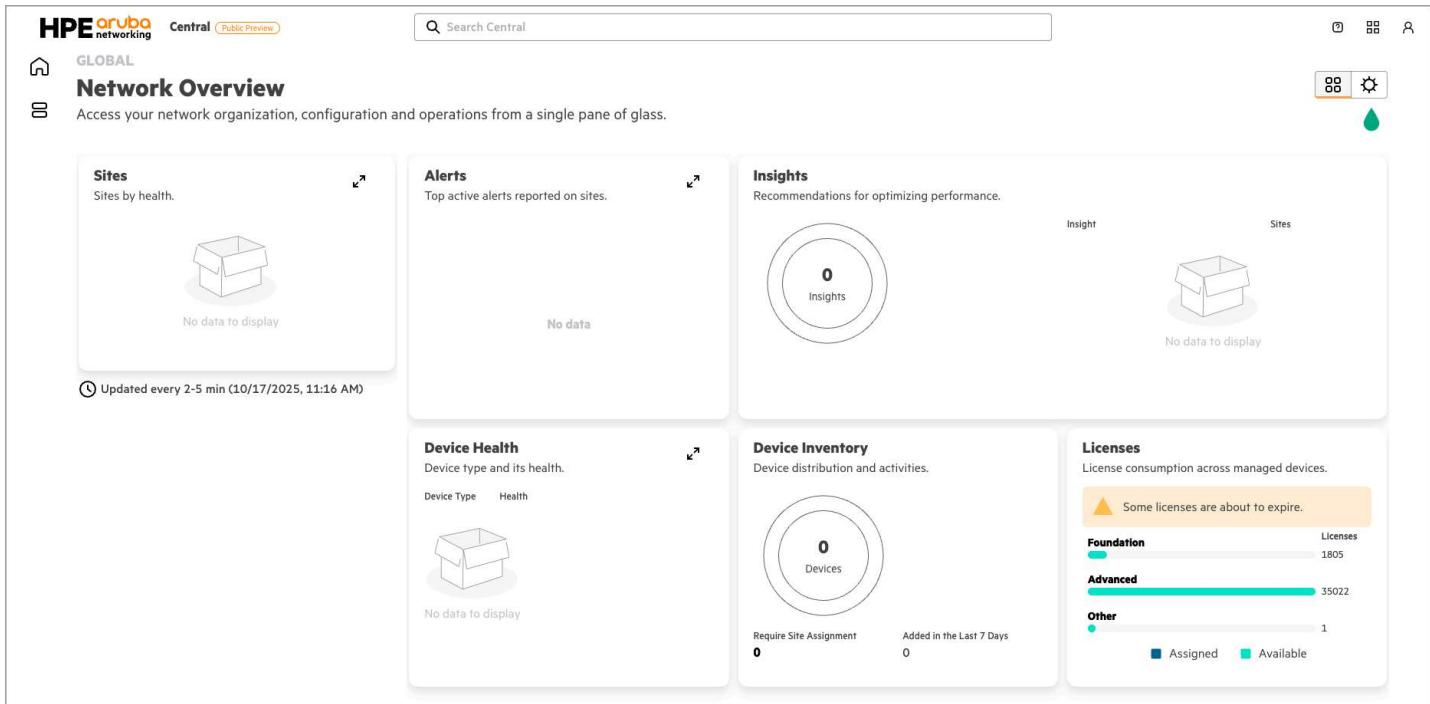
Repeat Password

Back  Finish

Create Sites

To monitor and configure devices on COP, the devices must be added to a Central site. This procedure creates a site.

Step 1 Login to COP and go to the configuration view.



Sites
Sites by health.

No data to display

Alerts
Top active alerts reported on sites.

No data

Insights
Recommendations for optimizing performance.

0 insights

Device Health
Device type and its health.

No data to display

Device Inventory
Device distribution and activities.

0 Devices
Require Site Assignment 0
Added in the Last 7 Days 0

Licenses
License consumption across managed devices.
 Some licenses are about to expire.

Foundation	Licenses
Assigned	1805
Advanced	Licenses
Assigned	35022
Other	Licenses
Assigned	1
Available	

Step 2 On the left navigation menu, select **Sites**, then click **Create Site**.

The screenshot shows the 'Network Overview' section of the HPE Aruba Central interface. On the left, there's a sidebar with 'Library' and 'GLOBAL' sections, followed by 'Site Collections' (0 collection), 'Sites' (0 site), 'Devices' (0 device), and 'Device Groups' (0 group). The 'Sites' section is highlighted with a green border and a red arrow labeled '1'. The main area is titled 'Sites' and contains a search bar, a 'Create Site' button (with a red arrow labeled '2'), and a table with columns: Name, City, State/Province, Postal Code, Country, Site Collection, and Devices. Below the table, it says 'No data to display' with a small icon of a box.

Step 3 Enter the site details and click **Save**.

- **Name:** RSVCP-COP
- **Address:** 8000 Foothills Blvd
- **City:** Roseville
- **Country:** United States
- **State/Province:** California
- **Postal Code:** 95747

The 'Create Site' dialog box is open. It has fields for 'Name *' (RSVCP-COP), 'Address *' (8000 Foothills Boulevard, Roseville), 'City *' (Placer County), 'Country *' (United States), 'State/Province *' (California), 'Postal Code *' (95747), and a map view showing the location in Roseville, California. The map includes labels for Rhapsody Dr, Campus Pkwy, Roseville Pkwy, Foothills Blvd, and various parks. There are buttons for 'Street', 'Satellite', and '3D' views. Below the map are fields for 'Time Zone *' (America/Los_Angeles UTC-...), 'Latitude' (38.784515), and 'Longitude' (-121.31751). At the bottom right are 'Save' and 'Cancel' buttons.

Device Onboarding

Devices must be onboarded to GreenLake before they can be managed by COP. There are two methods available to add devices to GreenLake:

- Manual Provisioning:** Devices are added to the GreenLake database individually by entering a device serial number and MAC address, or by uploading a list of devices in a CSV file. Manual provisioning is used to onboard switches and mobility gateways. Refer to the [Add Devices to GreenLake Inventory](#) section of the GreenLake Platform chapter of this guide.

- Auto-Provisioning:** When auto provisioning is enabled, APs are onboarded to GreenLake using a pre-shared key (PSK). The PSK is configured manually in GreenLake and provided to APs using a vendor-specific DHCP option.

In addition to the provisioning methods above, auto subscription ensures that onboarded devices are automatically assigned an appropriate subscription.

Enable Auto-Provisioning and Auto-Subscribe

This section describes the procedure to configure auto-provisioning and auto-subscription for COP.

Step 1 Login to the COP instance and click the **Greenlake Services** icon on the top right corner.

The screenshot shows the Aruba Central Network Overview dashboard. It features four main sections:

- Sites:** Shows 'RSVCP-COP' with 'No data' displayed.
- Alerts:** Shows 'No active alerts reported on sites.'
- Insights:** Shows '0 Insights' with 'No data to display'.
- Device Health:** Shows 'Device type' and 'Health' with 'No data to display'.

On the right side, there are additional sections:

- Device Inventory:** Shows '0 Devices' with 'Require Site Assignment' and 'Added in the Last 7 Days' both at 0.
- Licenses:** Shows a warning about licenses expiring. It includes a bar chart for 'Foundation' (1805), 'Advanced' (35022), and 'Other' (1) with legends for 'Assigned' (dark blue) and 'Available' (light blue).

Step 2 Select the **Devices** tab at the top.



Step 3 On the left menu, click **Auto-Provisioning**. In the **Pre-Shared Keys** tile, click **Add Key**.

Devices

Manage your devices and their subscriptions.

The screenshot shows the 'Devices' section of the Aruba Central On-Premises interface. On the left, there's a sidebar with links: 'Inventory', 'Auto-Subscribe', 'Auto-Provisioning' (which has a green badge with the number '1'), and 'Third Party Devices'. The main area is titled 'Auto-Provisioning' and contains three tabs: 'Provisioning Profiles' (which is selected and underlined), 'Controller Profiles', and 'Provisioning Profiles'. A sub-section titled 'Provisioning Profiles' with the sub-instruction 'Configure connection profiles for device discovery.' is shown. Below this are three cards: 'SNMP' (with 'Add SNMP Profile' button), 'HTTPS' (with 'Add HTTPS Profile' button), and 'Pre-Shared Keys' (with 'Add Key' button). The 'Pre-Shared Keys' card also has a green badge with the number '2'.

Step 4 Enter the name and pre-shared key as shown below, then click **Create**.

- **Name:** employee_key
- **Pre-Shared Key:** 123456
- **Confirm Key:** 123456

Create Pre-Shared Key

Enter the details below to create a Pre-Shared Key.

Name*

Pre-Shared Key*

Confirm Key

Cancel **Create**

Note: The PSK name is referenced in the DHCP option provided to access points.

Step 5 On the left menu, click **Auto-Subscribe**, then click **Add**.

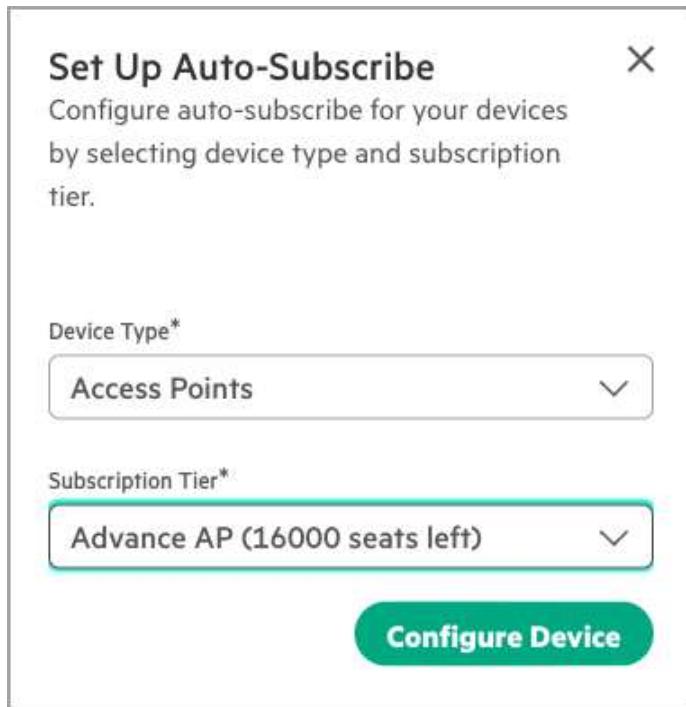
Devices

Manage your devices and their subscriptions.

Inventory

- Auto-Subscribe** 1 2 Add
- Auto-Provisioning
- Third Party Devices
 - Access Points
Advance AP (16000 seats left)
Delete Edit
 - Switches
Foundation Switch (0 seats left)
Delete Edit
 - Controllers
Foundation Gateway (300 seats left)
Delete Edit

Step 6 Select Access Points from the **Device Type** dropdown and select the appropriate **Subscription Tier**. Click **Configure Device**.



Step 7 Repeat steps 5 and 6 to add auto-subscribe for mobility gateways.

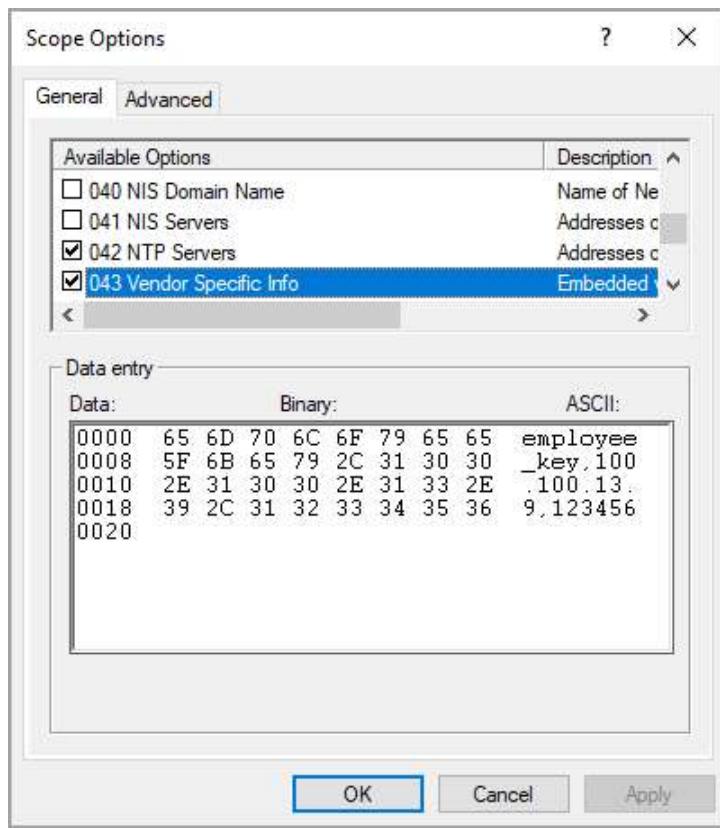
AP Onboarding Prerequisites

APs must meet minimum firmware requirements before onboarding, as described in the [Supported Devices](#) section of Central online help.

When auto-provisioning APs, DHCP servers must support the following vendor-specific options:

- Option **043 Vendor Specific Info**: This option provides auto-provisioned APs with the PSK and COP virtual IP required for auto-provisioning in the following format: `psk-name,cop-cluster-vip,psk`. It is sent by the server in DHCP offers and acknowledgements.
- Option **060 Vendor Class Identifier**: To onboard AOS-10 access points to COP, option 060 must be set for DHCP offers and acknowledgments with a value of `ArubaAP` to process option 043 correctly.

Refer to the AOS-10 [Server Configuration](#) guide to configure the DHCP options above. An example configuration of DHCP option 43 on a Windows DHCP server is shown below:



Mobility Gateway Onboarding Prerequisites

Mobility Gateways are onboarded to COP using manual provisioning. The gateway must meet minimum firmware requirements before onboarding, as described in the [Supported Devices](#) section of Central online help.

The gateway should use *full-setup* configuration mode. An example configuration on the gateway is shown below:

```

Enter Option (partial string is acceptable): full-setup

Are you sure that you want to stop auto-provisioning and start full setup dialog? (yes/no): yes

***** Welcome to the Aruba9012 setup dialog *****
This dialog will help you to set the basic configuration for the switch.
These settings, except for the Country Code, can later be changed from the
Command Line Interface or Graphical User Interface.

Commands: <Enter> Submit input or use [default value], <ctrl-I> Help
<ctrl-B> Back, <ctrl-F> Forward, <ctrl-A> Line begin, <ctrl-E> Line end
<ctrl-D> Delete, <BackSpace> Delete back, <ctrl-K> Delete to end of line
<ctrl-L> Previous question <ctrl-X> Restart beginning <ctrl-R> Reload box

Enter System name [Aruba9012_DA_6A_00]: RSVCP-COP-GW
Enter Switch Role (standalone\md) [md]:
Enter IP type to terminate IPSec tunnel or secured websocket connection (ipv4) [ipv4]:
Enter Conductor switch IP address/FQDN or ACP IP address/FQDN: 100.100.13.9
Enter Conductor switch Type? (MCRIACP) [MCR]: ACP
Do you want to configure HTTP-PROXY server for Conductor switch Type? (yes\no) [no]:
Enter Uplink Vlan ID [4086]: 15
Enter Uplink port [GE 0/0/0]:
Enter Uplink port mode (access\trunk) [access]:
Enter Uplink Vlan IP assignment method (dhcp\static\pppoe) [static]:
Enter Uplink Vlan Static IP address [172.16.0.254]: 10.16.240.20
Enter Uplink Vlan Static IP netmask [255.255.255.0]: 255.255.255.128
Enter IP default gateway [none]: 10.16.240.1
Enter DNS IP address [none]: 10.2.120.198
Do you wish to configure IPV6 address on vlan (yes\o) [no]:
Do you want to disable spanning tree (yes\o)? [no]:
Do you want to configure dynamic port-channel (yes\o) [no]:
This controller is restricted, please enter country code (US\PR\GU\VI\IMP\IAS\FM\IMH) [US]:
You have chosen Country code US for United States (yes\o)?: yes
Enter the controller's IANA Time zone [America/Los_Angeles]:
Enter Time in UTC [00:04:38]:
Enter Date (MM/DD/YYYY) [10/17/2025]:
Do you want to create admin account (yes\o) [yes]:
Enter Password for admin login (up to 32 chars): *****
Re-type Password for admin login: *****

```

AOS-CX Switch Onboarding Prerequisites

AOS-CX switches are onboarded using manual provisioning. Switches must meet minimum firmware requirements before onboarding, as described in the [Supported Devices](#) section of Central online help.

Using the switch CLI, the Central location must be changed from the default value to the COP cluster's virtual IP.

```

aruba-central
location-override 100.100.13.9 vrf mgmt

```

Assign Device to Site and Device Function

This procedures assigns a device function and site to a device, which is required to fully manage a device in COP.

Step 1 Login to COP and click the number representing the total number of devices in the **Device Inventory** tile.

Sites
Sites by health.
RSVCP-COP
There are no devices in this site.
Updated every 2-5 min (10/20/2025, 2:31 PM)

Alerts
Top active alerts reported on sites.
No data

Insights
Recommendations for optimizing performance.
0 Insights
No data to display

Device Health
Device type and its health.
Device Type Health
No data to display

Device Inventory
Device distribution and activities.
3 Devices
Require Site Assignment 3 Added in the Last 7 Days 3
Legend: Access Points (Dark Blue), Switches (Teal), Gateways (Purple)

Licenses
License consumption across managed devices.
Some licenses are about to expire.
Foundation 1806 **Advanced** 35022 **Other** 1
Licensing status: Assigned (Dark Blue) / Available (Teal)

Step 2 Select the checkbox left of each device to be assigned, then click **Assign**.

Device Inventory
View and onboard Aruba devices in the network.

Type: Access Point (1) Gateway (1) Switch (1) Bridge (0)
Site Assignment: Assigned (0) Unassigned (3)
Search: Search Filter

Name	Type	MAC Address	Model	Subscription	Device Function	Site	Provisioning State
98:8f:00:c6:e7:2a	Access Point Standalone	98:8f:00:c6:e7:2a	AP-735	ADVANCED_AP EE712480BC6154B5A9	-	Unassigned	No
CNKLKLC00G	Gateway	20:4c:03:da:6a:00	9012-US	FOUNDATION_WLAN_GW E37BD52E4CDB74B69B	-	Unassigned	No
CNXOP-ACC2	Switch Standalone	e4:de:40:c7:fc:00	6300	ADVANCED_SWITCH_6300 E0221BD848E2B4F51A	-	Unassigned	No

Step 3 Select the **Device Function** and **Site** to be assigned, then click **Assign**.

Device Assignment

Device Function
Assign device function to the selected devices.

Gateway
 Mobility Gateway

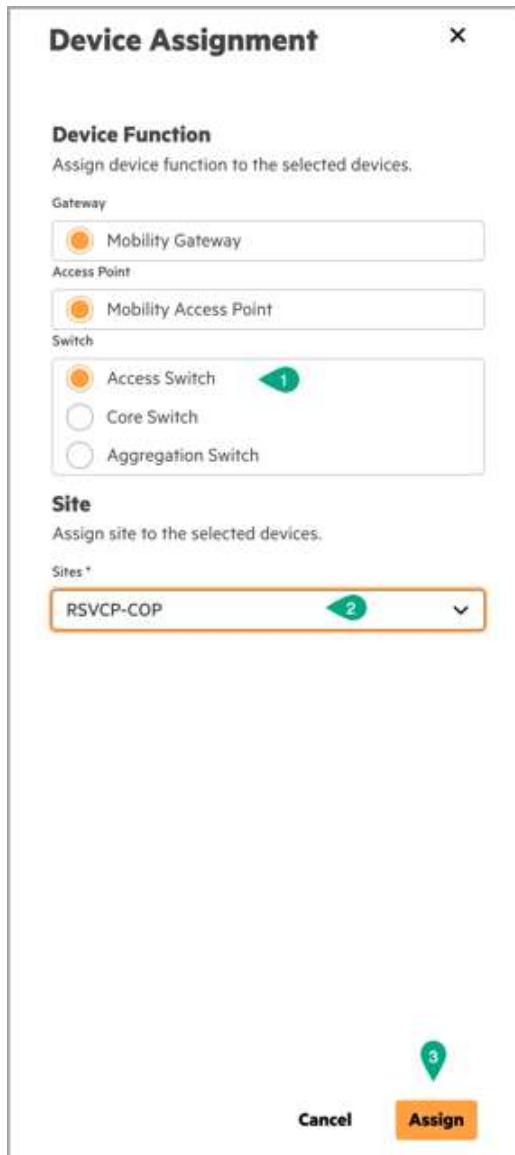
Access Point
 Mobility Access Point

Switch
 Access Switch 1
 Core Switch
 Aggregation Switch

Site
Assign site to the selected devices.

Sites *
 RSVCP-COP 2 ▼

3
Cancel **Assign**



Note: COP supports assigning multiple device functions in a single step. For switches, ensure that switches with the same function are selected together.

Configuration and MRT

This chapter describes the procedure to set up a Central On-Premises (COP) cluster using either a custom server installation or pre-installed COP appliances. After deployment, devices are added to sites and assigned device functions. For details on device monitoring in COP, refer to the [Monitoring with Central](#) section. For device configuration, refer to the [Configuration Model](#) section.

