HP Cloud OS for Moonshot Operational Dashboard Help

Version 1

HP Cloud OS for Moonshot Operational Dashboard help

Welcome to the HP Cloud OS for Moonshot Operational Dashboard Help, which provides information about its user interface dialogs and options. You can use the Operational Dashboard to manage your cloud environment, complete the installation and configuration of nodes, and create a cloud.

For more details on the Installation process, see the Installation and Configuration Guide.

How the Operational Dashboard works

The Operational Dashboard is used to complete the Cloud OS installation process after the HP Cloud OS for Moonshot Administration Node has been booted with the ISO (see the Install section of the HP Cloud OS for Moonshot Documentation web site).

On the Operational Dashboard, you set up your cloud environment, complete the HP Cloud OS for Moonshot Administration node installation and configuration, and create a cloud. You can then access the HP Cloud OS for Moonshot Administration Dashboard to view, allocate, and manage all resources within the cloud.

To the left of the Menu bar are the Environment and Cloud tabs, and to the far right is a Settings link.

Environment tab

Use this tab to review the types of cloud environments you can create, the setup requirements for each type of cloud environment. You can also set up the Admin Node to deploy a cloud environment and use the Networks view to define the networks that are used in your cloud environment.

This tab displays the following panels on which you set up your cloud environment and complete the HP Cloud OS for Moonshot Administration node installation. The panels are displayed in the order you must follow for the installation process. For details on each panel, see the Environment Tab topic.

- Prerequisites

- Networks
- Complete Install

Cloud tab

Use this tab to update and complete prerequisite information, after which you can power on the nodes that are involved in your cloud and manage them. You are then ready to create your cloud.

This tab displays the following panels on which you complete the installation process to manage the nodes that will be used in your cloud and create a cloud. You can also download install modules or plugins. For details on each panel, see the Cloud Tab topic.

- Manage Nodes
- Manage Clouds
- Updates and Extensions

> **Note:** The Cloud tab is not enabled until you have completed the HP Cloud OS for Moonshot Administration node install on the Environment tab.

Settings link

Use this link if you need to change your display settings, download log files, or get details about the HP Cloud OS for Moonshot Operational Dashboard.

The Settings tab displays after you click the Settings link. The following panels allow you to specify user display settings, view the number of days remaining on and update the HP Cloud OS for Moonshot license, and view the Operational Dashboard and Cloud OS versions. For details on each panel, see the Settings Tab topic.

- User Settings
- License
- About

> **Note:** The **License Validity** of the product information is also displayed on the Operational Dashboard.

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Operational Dashboard: Environment tab

The Environment tab contains the following panels on which you begin the installation process on the Operational Dashboard. On these panels, you set up your cloud environment and complete the HP Cloud OS for

Moonshot Administration node installation. For the installation process, you must complete each panel in the order they are displayed.

- Connections
- Prerequisites
- Networks
- Complete install

For procedural instructions, see Install and configure your cloud.

Connections

The Connections view is where you define a connection set. You define a network mode (single, dual, team) along with a list of logical connection interfaces (intf0, intf1, intf2) with each one being bound to a port, defined by bandwidth and port number. The default network settings for the participating hosts/nodes should be

- eth0 connected to a private network
- eth1 connected to a public network
- eth2 connected to a second private network

Note: You are not required to make any changes in this option.

Prerequisites

The following information provides details about the Prerequisites panel:

Concepts:

Prerequisites overview

UI description:

- Prerequisites page
- Cloud Administration Node Internet Access Prerequisite dialog
- Cloud Administration Node Time Settings Prerequisite dialog
- External DNS Server Prerequisite dialog
- Email Notification Settings dialog

Prerequisites overview

The first step on the Operational Dashboard is to configure the HP Cloud OS for Moonshot Administration node prerequisites.

Caution: You must complete configuration of the Cloud Administration Node Internet Access and External DNS Server prerequisites before you complete the steps on the Complete Install panel. For details, see Complete Install. After that, the Edit Prerequisite dialogs for those settings are read-only. Once the install process is triggered, no changes can be made. If you want to make changes to the Cloud Administration Node Internet Access and External DNS Server prerequisites, you will need to start over by re-installing the HP Cloud OS for Moonshot Administration node. For procedural instructions, see Install and Configure Your Cloud.

If you do not define the following prerequisites, your cloud will not work at all or will not work properly:

- **Cloud Administration Node Internet Access** — Configure to set up Internet access on the HP Cloud OS for Moonshot Administration node. You will need Internet access for downloading hot fixes and updates using the Updates and Extensions panel.
- **Cloud Administration Node Time Settings** — Configure to reflect the current time to ensure that the Cloud is created successfully.
- **External DNS Server** — Configure to add the IP address of the external DNS server your Cloud OS environment is using to access named websites within your cloud.

Optionally, you can use the **Email Notification Settings** to configure sending email notifications when the Cloud and Compute Region operations complete because this takes some time. By enabling and setting this prerequisite, you can be alerted by e-mail when each operation completes.

Prerequisites page

To access: Select the **Environment** tab > **Prerequisites**.

The following table describes the Prerequisites page UI elements:

UI element	Description

Prerequisite Description column	HP Cloud OS for Moonshot Administration node prerequisite settings: • Cloud Administration Node Internet Access • Cloud Administration Node Time Settings • External DNS Server • Email Notification Settings
Last Updated column	Timestamp when the prerequisite was completed.
Edit Prerequisite button	Opens the Edit Prerequisite dialog for the corresponding Prerequisite.
Complete Prerequisite button	Completes the setup.

Cloud Administration Node Internet Access Prerequisite dialog

To access: Select the **Environment** tab > **Prerequisites**> click **Edit Prerequisite** for the Cloud Administration Node Internet Access Prerequisite.

Caution: If you want to set the Administration Node Internet Access Prerequisite, you must configure it before you complete the steps on the Complete Install panel. For details, see the Complete Install topic. After that, the Administration Node Internet Access Prerequisite dialogs are read-only. Once the install process is triggered, no changes can be made. If you want to make changes, you need to start over by re-installing the HP Cloud OS for Moonshot Administration node. For procedural instructions, see Install and Configure Your Cloud.

The following table describes the Cloud Administration Node Internet Access Prerequisite dialog UI elements:

UI element	Description
Network Interface	Select the network interface on the HP Cloud OS for Moonshot Administration node that has been configured for Internet access. **Note:** Interface `eth0` is not used for Internet access.
Network Configuration	Set the network configuration for your environment.
IP Address	Leave blank unless you have a static IP address, which you enter here.
Network Mask	Leave blank unless you have a static IP address. Type the network mask.
Gateway	Leave blank unless you have a static IP address. Type the gateway.
DNS Address	Leave blank unless you have a static IP address. Type the DNS address.

HTTP Proxy Information Set proxy information applicable for your environment. If you are on a network that has a proxy, you must fill in this proxy information.

Caution: Specifying incorrect proxy host settings might cause some features to not work correctly in the Administration Dashboard.

Host	Enter the host IP address. Get this from your system administrator or from the settings in your web browser.
Port	Enter the Port details. Get this from your system administrator or from the settings in your web browser.
Non-Proxy Hosts	Enter `10.*|192.*|127.0*|localhost` as this specifies addresses that **should not** use proxy servers (for Controller/Baremetal Host and admin networks, IP range).
Username (Optional)	Specify the username if necessary for the proxy setting.
Password (Optional)	Specify the password if necessary for the proxy setting.
Update Prerequisite	Click to save these settings and complete this setup.

Note: If this prerequisite fails to complete successfully, an error message displays on the Prerequisites page. For a potential solution, see Problem: Admin Node Internet Access Prerequisites fail to complete in the Troubleshooting topic.
Also, specifying incorrect proxy host settings might cause failures when attempting to launch the Operational Dashboard and the Administration Dashboard.

Cloud Administration Node Time Settings Prerequisite dialog

To access: Select the **Environment** tab > **Prerequisites**> click **Edit Prerequisite** for the Cloud Administration Node Time Settings Prerequisite.

The following table describes the Cloud Administration Node Time Settings Prerequisite dialog UI elements:

UI element	Description
Timezone	Set the appropriate time zone for your area (UTC is the default).
Date	Set the date applicable for your environment if different from the default.
Time	Set the time applicable for your environment if different from the default.
Update Prerequisite	Click to save these settings and complete this setup.

External DNS Server Prerequisite dialog

Caution: If you want to set the External DNS Server Prerequisite, you must configure it before you complete the steps on the Complete Install panel. For details, see the Complete Install topic. After that, the External DNS Server Prerequisite dialogs are read-only. Once the install process is triggered, no changes can be made. If you want to make changes, you need to start over by re-installing the HP Cloud OS for Moonshot Administration node. For procedural instructions, see Install and Configure Your Cloud.

To access: Select the **Environment** tab > **Prerequisites**> click **Edit Prerequisite** for the External DNS Server Prerequisite.

The following table describes the External DNS Server Prerequisite dialog UI elements:

UI element	Description
External DNS Server IP Address	Type the IP address of the external DNS server used by your HP Cloud OS for Moonshot environment to be able to access named websites within your cloud.
Update Prerequisite	Click to save the IP address.

Email Notification Settings Prerequisite dialog

To access: Select the **Environment** tab > **Prerequisites**> click **Edit Prerequisite** for the Email Notification Settings Prerequisite.

The following table describes the Email Notification Settings Prerequisite dialog UI elements:

UI element	Description
Email Notifications	Click to enable this setting.
SMTP Server	Set to an SMTP server that is valid for your network.
From Address	Set to an applicable email address for your environment. Most likely, this will be the email address of the person responsible for managing the could infrastructure.
To Address (comma-separated list)	Set to an applicable email address or comma-separated list of addresses. This might be the person who initiated the cloud build or anyone who is interested in following the cloud build process.
Update Prerequisite	Click to save the IP address.

Networks

The following information provides details about the Networks panel:

Concepts:

Networks Panel overview

UI descriptions:

- Networks panel
- Networks page
- Edit Network dialog
- Edit Address Range dialog

Networks Panel overview

On the Networks panel, you define the networks for each logical connection (intf0, intf1, intf2,...). A network is defined for each connection such as the admin network, public network, nova_flat network, and the IPMI network. These network definitions are used for various purposes in the cloud:

- **admin** — Networking between the nodes and the Admin Node, and used for administrative functions, such as managed node installation, TFTP booting, DHCP assignments, system logs, backups, and other monitoring tasks. The Admin network also carries cinder-volume traffic and must be an isolated private network.
- **nova_flat** — Flat networking uses ethernet adapters configured as bridges to allow the network traffic to transit between the various nodes. You can use a single adapter on the physical host, or you can use multiple adapters. This option does not require a switch that does VLAN tagging.
- **IPMI** — Connects the Baremetal host to the IPMI interface of the Moonshot chassis.
- **public** — Public or corporate network that is attached to your cloud infrastructure, and must provide a pool of IP addresses for the Cloud Controller node for floating IP assignments. The size of the pool depends on the number of Virtual Machine instances. This network handles traffic to the outside world for the instances.

Important: Customizing the public network settings is critical. Any missing or incorrect values will result in you having to re-install the HP Cloud OS for Moonshot Administration node. For procedural instructions, see Install and Configure Your Cloud.

The following table describes the networks in the HP Cloud OS for Moonshot environment:

Node	Network type	Interface	IP assignment mode	IP address provider	Network range specified in this option
Admin	Management/isolated	eth0	DHCP	DHCP service running on Admin node	HP Cloud OS for Moonshot prerequisites
	Public	eth1	Static or DHCP	For dynamic, DHCP service is from public network	HP Cloud OS for Moonshot prerequisites
Controller	Management/isolated	eth0	DHCP	DHCP service running on Admin node	HP Cloud OS for Moonshot prerequisites
	nova_flat	eth1	Static	Static assignment by Admin node	HP Cloud OS for Moonshot prerequisites
	Public	eth2	Static	Static assignment by Admin node	HP Cloud OS for Moonshot prerequisites
Baremetal Host	Management/isolated	eth0	DHCP	DHCP service running on Admin node	HP Cloud OS for Moonshot prerequisites
	nova_flat	eth1	Static	Static assignment by Admin node	HP Cloud OS for Moonshot prerequisites
	IPMI	eth2	DHCP/static	If DHCP-enabled Baremetal IPMI network option is "True" while creating cloud, then the DHCP server on IPMI network will assign IP. If DHCP-enabled Baremetal IPMI network option is "False", then the range is statically assigned by the Admin node.	For static, range is defined in HP Cloud OS for Moonshot prerequisites page

Cartridge	nova_flat	eth0	DHCP	IP is assigned by the DHCP service running on Controller node	nova_flat networks' DHCP IP range
	Public	eth1	DHCP	IP is assigned by the DHCP service running on external/public network	External networks' DHCP range

Caution: The address ranges validation only occurs when you open the Edit Address Ranges dialog for each network and click **Update Address Ranges**. Otherwise,you will not know if you have any errors. However, the Complete Install step will run a validation check and cannot be completed until the errors are fixed. If there is an address range error, the validation check will show the network type and possibly the address value. If not, open the Edit Address Ranges dialog for the specified network and click **Update Address Ranges** to identify the incorrect address. For details, see Complete Install.

Networks page

To access: Select the **Environment** tab > **Networks**.

The following table describes the Networks page UI elements:

UI element	Description
Network Type column	Lists the available network types: • **admin** • **nova_flat** • **IPMI** • **public**
Logical Interface column	Displays logical interface connection associated with the network type.
Subnet column	Displays IP address associated with the network type.
VLAN column	Displays Virtual Local Area Network ID number associated with the network type.

VLAN Enabled column	Indicates whether the associated network coexists on the same physical interface as other networks. If the networks co-exist on the same physical network, VLAN Enabled must be set to **True**. This means the Network Mode will be set to **single** by default on the Confirm Complete Install dialog. If the networks exist on separate physical interfaces, VLAN Enabled must be set to **False**. This means the Network Mode will be set to **dual** by default on the Confirm Complete Install dialog.
Bridge Enabled column	Indicates, using **True** or **False**, whether a bridge interface should be added on top of the interface for the corresponding network.
Create Network button	Click to add a new network type on the Create Network dialog. **Note:** The **Create Network** button only displays while you can add or edit networks. Once you Complete Install, this button disappears and you cannot add or edit networks.
Edit Network button	Allows you to edit network settings.
Down arrow > **Edit Address Ranges**	Allows you to edit the range of IP addresses.

Edit Network dialog

To access: Select the **Environment** tab > **Networks** > click **Edit Network** for the network you want to customize.

Caution: If you plan to customize the networks, you must do that before you complete the steps on the Complete Install panel. For details, see the Complete Install topic. After that, the Edit Network dialogs are read-only. Once the install process is triggered, no changes can be made. If you want to make changes, you need to start over by re-installing the HP Cloud OS for Moonshot Administration node. For procedural instructions, see Install and Configure Your Cloud.

The following table describes the Edit Network dialog UI elements. You will notice a few variations depending on your type of network: public, nova_flat, or IPMI.

UI element	Description

Network Tab	
Type	Default network type.
Logical Interface	Logical interface connection associated with the network type.
Subnet	IP address associated with the network type. For the public network, specify explicitly for your public IP address range.
Netmask	CIDR notation value used to distinguish the network and host portions of an IP address. For the public network, specify explicitly for your public IP address range.
Bridge Enabled	Indicates whether a bridge interface should be added on top of the interface for the corresponding network. For the public network, set to **False**. The default is **False** and should not be changed for nova_flat or IPMI networks.
VLAN Tab	
VLAN ID	Virtual Local Area Network ID number associated with the network type. Do not change the default for the nova_flat, IPMI, or public networks.
VLAN Enabled	Indicates whether the associated network coexists on the same physical interface as other networks. (*Recommended*) Leave set to **False** (the default value) if the networks (particularly public) exist on separate physical interfaces. This means that the Network Mode will be set to **dual** by default on the Confirm Complete Install dialog. Set to **True** if the networks (particularly public) co-exist on the same physical network. This means that the Network Mode will be set to **single** by default on the Confirm Complete Install dialog.
Router Tab	
Router	Device's IP Address that passes network traffic between different IP networks.
Router Preference	Any value used by a routing protocol to determine whether one particular route should be chosen over another.

Update Network	When clicked, this button saves the edited settings for all three tabs.

Edit Address Ranges dialog

To access: Select the **Environment** tab > **Networks** > click the down arrow and select **Edit Address Ranges** for the nova_flat, IPMI, or public network type to view or edit the IP address ranges.

Caution: If you plan to customize the address ranges, you must do that before you complete the steps on the Complete Install panel. For details, see the Complete Install topic. After that, the Edit Address Ranges dialogs are read-only. Once the install process is triggered, no changes can be made. If you want to make changes, you need to start over by re-installing the HP Cloud OS for Moonshot Administration node. For procedural instructions, see Install and Configure Your Cloud.

The following table describes the Edit Network dialog UI elements:

UI element	Description
Network Type	Network type being viewed or edited.
Subnet	Pre-populated with the subnet that was configured for the public network.
Add Address Range	Click to add a blank address range.
Delete Address Range	Click to delete the selected address range.
Node Types	For IPMI and public, this is set for **host**. For nova_flat this is set for **host** and **DHCP**.
IPV4 Start Addr / IPV4 End Addr	Provide the IP address range corresponding to the network's configuration. Get the range from your IT administrator, or define the IP range if you are the IT administrator.
Update Address Ranges button	Click to save the edited settings, and to validate that the IP address ranges are correct. **Note:** If you enter invalid ranges, you will get a validation error when you click **Update Address Ranges**. The validation error identifies the incorrect address (start or end) for the corresponding network type. You must fix all errors in this Edit Address Ranges dialog for the install to be successful. Clicking **Cancel** will not trigger the validation step. Identify the incorrect address.

Complete Install

The following information provides details about the Complete Install panel.

Concepts:

- Complete Install overview

UI descriptions:

- Complete Install page
- Confirm Complete Install dialog

Complete Install overview

On the Complete Install panel, you complete the HP Cloud OS for Moonshot Administration node installation, which installs underlying components on the Administration node.

You specify the install settings on the Confirm Complete Install Dialog and then finish the install process on the Complete Install Page.

Note: The Complete Install step runs a validation check of the network IP address ranges. If there is an error, this step cannot be completed until the error is fixed. The validation check shows the network type and possibly the address value. You must open the Edit Address Ranges dialog for the specified network and click **Update Address Ranges** to identify the incorrect address, and fix it. See Edit Address Ranges Dialog.

When the install is complete, the Operational Dashboard displays the Cloud tab (see the Cloud Tab section of this topic) after you click the **Continue...** button.

Caution: Be sure the values for the Prerequisites, Networks Connections, and Network Settings are what you need, before you start the install process. Once the install process is triggered, no changes can be made. If you want to make changes, you need to start over by re-installing the HP Cloud OS for Moonshot Administration node. For procedural instructions, see Install and Configure Your Cloud.

Complete Install page

To access: Select the **Environment** tab > **Complete Install**.

The following table describes the Complete Install page UI elements:

UI element	Description

Complete Install button	Click to open the Complete Install dialog, where you will then specify configuration information to complete the HP Cloud OS for Moonshot Administration node installation. After the HP Cloud OS for Moonshot Administration node is installed, this button is replaced by the Continue... button. **Note:** The Complete Install step runs a validation check of the network IP address ranges. If there is an error, this step cannot be completed until the error is fixed. The validation check shows the network type and possibly the address value. You must open the Edit Address Ranges dialog for the specified network and click **Update Address Ranges** to identify the incorrect address, and fix it. See Edit Address Ranges ialog.
Domain Name	Display the name of the cloud domain.
Install Started column	The timestamp that the HP Cloud OS for Moonshot Administration node install is started.
Install Complete column	The timestamp that the HP Cloud OS for Moonshot Administration node install is completed.
Network Mode column	The mode specified in the Complete Install dialog.
Show Install Log column	Click to view the install activity in the /var/log/install.log, which appears on the bottom of the window. This button then becomes a Refresh button.
Refresh button	Replaces the Show Install Log button to monitor the install progress.
Continue... button	Replaces the Complete Install button after the HP Cloud OS for Moonshot Administration node install is complete. Click to add the Cloud tab. The HP Cloud OS for Moonshot Administration node is now ready to be configured to set up a cloud. See the Cloud Tab topic for descriptions of the panels that set up a cloud.

Confirm Complete Install dialog

To access: Select the **Environment** tab > **Complete Install** and click **Complete Install**.

The following table describes the Confirm Complete Install UI elements:

UI element	Description
Domain Name	Enter the top-level domain name for your infrastructure. The name must be lowercase characters with no numbers or special characters. In the current release, it must end in .com, .org, .net, .edu, .mil, .gov, or .local.

	From the drop-down list, select **dual**.
Network Mode	**Note:**Dual network mode needs two Ethernet cards and allows you to completely separate traffic to/from the admin network and to/from the public network.
Complete Install	Click to install the required software on the HP Cloud OS for Moonshot Administration node. This may take several minutes. **Note:** The Complete Install step runs a validation check of the network IP address ranges. If there is an error, this step cannot be completed until the error is fixed. The validation check shows the network type and possibly the address value. You must open the Edit Address Ranges dialog for the specified network and click **Update Address Ranges** to identify the incorrect address, and fix it. See Edit Address Ranges dialog.

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Operational Dashboard: Cloud tab

The Cloud tab contains the following panels on which you complete the installation process to create a cloud, and download install modules and plugins. For the installation process, you must complete the Manage Nodes and Manage Clouds panels in the order they are displayed.

- Manage Nodes
- Manage Clouds
- Updates and extensions

Note: The Cloud tab does not appear until you have completed all the installation steps on the Environment tab .

For procedural instructions, see Install and configure your cloud.

Manage Nodes

The following information provides details about the Manage Nodes panel.

Concepts:

- Manage Nodes overview

UI descriptions:

- Manage Nodes page
- Edit Node dialog
- Manage Nodes Details page

Manage Nodes overview

The Manage Nodes panel lists all of the nodes that have been discovered through the PXE-boot process. Nodes that are Allocated can be subsequently used as part of a Cloud installation. Nodes can be edited so that they have meaningful names or descriptions. Clicking on a node's ID gives more information about that node, including its role in a cloud deployment.

Before you begin, ensure that all HP Cloud OS for Moonshot prerequisites are fulfilled.

Note: Ensure that the boot order on all nodes is configured to boot from the network first (this only occurs once as the PXE service will not try to network boot a node again if it has already done so).

For procedural instructions on setting up and configuring your nodes, see Install and configure your cloud.

Manage Nodes page

To access: Select the **Cloud** tab > **Manage Nodes**.

The following table describes the Manage Nodes page UI elements:

UI element	Description
	Renamed MAC address (in the Edit Node dialog) to a more meaningful name such as controllercompute, cloudcontroller, compute1, compute2.
Alias column	Once the Cloud Controller and Compute nodes have finished booting up, each node displays in the table and indicates the Alias Name set to the node's MAC address (of the NIC associated with the Administration Network). Each node will be in the Not Allocated state.
Node ID column	The node's unique identifier, which is the MAC address of the node's NIC that is associated with the Administration network. It is read only.

Status column	As the Cloud Controller and Compute nodes are being allocated, they progress through these different states: Not Allocated, Hardware Installed, Installing, Installed, Readying, Finalizing, Allocated. Once the nodes are ready for cloud deployment, their status ends with Allocated. **Note:** In the case where a node results in status = Off, select the More > Reboot Node action for the node.
Description column	Lists any optional descriptions that were entered for the corresponding nodes.
Filter field and button	Entering a text string into the field will display only those entries in the list of managed nodes that contain the string in any column on the row.
Edit Node button	Click to open the Edit Node dialog.
More > Reboot Node	Select to reboot the node. **Note:** A node can be rebooted if it is in the Not Allocated, Allocated, or Deployed state.
More > Allocate Node	Select to complete the node allocation process, which sets up and configures the node so that OpenStack services can be deployed on it. **Note:** A node can be allocated if it is in the Not Allocated state.
More > Reset Node	Select to reset the node. **Note:** A node can be reset if it is in the Not Allocated or Allocated state. A node that is in the Deployed state cannot be reset. When a node is reset, it is returned to the Not Allocated state if it is not in that state.

Edit Node dialog

To access: Select the **Cloud** tab > **Manage Nodes** > **Edit Node** for the node you want to edit.

The following table describes the Edit Nodes dialog UI elements:

UI element	Description
Alias	Type a meaningful name, such as controllercompute, cloudcontroller, compute1, compute2, for the MAC address for the Controller and Baremetal host. **Note:** The node name can only be letters (capitalization is allowed) and numbers with no spaces or special characters.
Description	Optional — Type a description for each node.
Update Node	Click to save the settings and return to the Manage Nodes page.

Manage Nodes Details page

To access: Select the **Cloud** tab > **Manage Nodes** and click the node name link.

This page displays all the values used for the selected node. The following table describes the Manage Nodes Details page UI elements:

UI element	Description
Info section	
UUID	MAC address of the selected node.
Alias column	User-defined name for the MAC address of the selected node.
Description	Optional description that was entered for the corresponding node. None is the default, if no description was entered.
Domain	The Cloud OS for Moonshot Administration node acts as a Domain Name Server (DNS server) for all the managed nodes. This domain name is used in the Fully Qualified Domain Name (FQDN) for the managed nodes.
IP Address	IP address of the selected node.
Uptime	Number of days, hours, minutes and seconds the node has been powered on.
Total RAM	Total RAM size in kilobytes of the selected node.
Free RAM	Size in kilobytes of the amount of RAM that is left on the selected node.
OS	Operating system of the selected node. The default is Ubuntu.
Cloud Info section	

Cloud Name	Name of the cloud in which the selected node belongs.
Role(s)	Type of role(s) for which the selected node has been specified: Cloud Controller, Network Controller, and Storage Controller respective services, and Baremetal host.
Compute Region	Name of the compute region in which the selected node belongs.

Manage Clouds

The following information provides details about the Manage Clouds panel.

Concepts:

- Manage Clouds overview

UI descriptions:

- Manage Clouds page
- Create Cloud dialog
- Create Region dialog
- Manage Clouds Details page

Manage Clouds overview

The Manage Clouds panel lists all the clouds and compute regions available in the current environment and lets you manage clouds and their associated services. The simplest cloud has one Compute Region with one Compute Controller that manages the Baremetal host.

Note: Each region must use unique nodes — managed nodes cannot be shared between regions.

Manage Clouds page

To access: Select the **Cloud** tab > **Manage Clouds** and click the cloud name link.

The following table describes the Manage Clouds page UI elements:

UI element	Description

Name	Cloud name specified on the Create Cloud dialog. This is the Domain name that is used to initialize Keystone and will be displayed in the Administration Dashboard. **Note:** A cloud name must contain only letters and numbers. It cannot contain spaces or special characters.
Compute Region(s)	List of created compute regions.
Status	The status of the cloud being created or removed. The status goes through a series of steps showing the % completed. When the cloud and compute region are created, the status displays Active.
Create Cloud	Opens the Create Cloud dialog.
Create Compute Region	Opens the Create Compute Region dialog.
More	Provides the following options: • **Launch Dashboard** — Opens the Administration Dashboard login on a new tab in the browser. You can login with the Admin account and password you specified on the Create Cloud > Attributes dialog. The default login/password are: **Admin** and **secretword**. • **Extend Compute Region** — Opens the Extend Compute Region dialog. • **Reduce Compute Region** — Opens the Reduce Compute Region dialog; displays only if the compute region is extended. • **Remove Cloud** — Opens the Remove Cloud dialog. **Note:** Some of the above actions might not always be available, depending upon the context of the cloud and the compute regions.

Create Cloud dialog

To access: Select the **Cloud** tab > **Manage Clouds** and click **Create Cloud**.

The following table describes the Create Cloud dialog UI elements:

UI element	Description
Cloud Name	Type the name of the cloud. This is the name that is used to initialize Keystone and will be displayed in the Administration Dashboard. **Note:** A cloud name must contain only letters and numbers. It cannot contain spaces or special characters.
Controllers Tab	
Specify which node will have the Cloud Controller, Network Controller, and Storage Controller respective services. You can install all these core controller services on a single node, or on a dedicated node for each service. **Important:** You must have Powered On and Allocated the nodes on the Manage Nodes panel to be able to select which nodes to use here.	
Cloud Controller	Select which allocated node will have the Cloud Controller service. The Cloud Controller contains those services that are considered single services for a cloud environment, such as Keystone, Glance, Eden, Eve, and Focus, and define the boundaries of the cloud environment from an identity standpoint.
Network Controller	Select which allocated node will have the Network Controller service. The Network Controller contains Neutron's server, l3 agent and DHCP services. It is a single service in a cloud and can co-exist with the cloud controller services.
Storage Controller	Select which allocated node will have the Storage Controller service.
Attributes Tab	
Cloud Type	By default, Physical is displayed.
Keystone Signing	Set the Keystone Signing method based upon the authentication scheme: • **PKI** — (default setting) Large token that contains token information such as the user ID and user roles. • **UUID** — alternative 32-character token choice.
DHCP enabled on Baremetal IPMI Network	By default, is True. You can change this to False if you do not have DHCP running on your IPMI network.

Networking Mode	Only Flat is supported.
Provider Network Name	Specifiy a network name; by default flat_network1 is displayed.
Maximum Volume File Size (GB)	Specify the maximum size of the file created on the target node's file system to represent the size of the Cinder volume. If the file size is too big for the file system, the size of the file will be capped at 90% of the free space in that file system (at the time of creation). The **best practice** is to adjust the size to a value that is appropriate for the file system associated with the Local Volume File.
Admin User Password	Admin user's password for a granted administrator role on an Admin project in the Administration Dashboard.
Arch User Password	Architect user's password for a granted architect role on an Admin project in the Administration Dashboard.
Trash User Password	Trash user's password for a granted trash user's role on a trash project(s) in the Administration Dashboard. **Note:** Remember these passwords. You will be using these as appropriate to login to the Administration Dashboard — see Manage Clouds page.
Create Cloud button	Click to begin the process of creating the cloud. The cloud will go through a series of steps to create an active cloud, showing the % completed on the Manage Clouds page.

Create Region dialog

To access: Select the **Cloud** tab > **Manage Clouds** and click **Create Compute Region** for the corresponding cloud.

Note: Successfully creating a region automatically creates a default resource pool for that region, which is configured and visible in the Administration Dashboard. For details, see the HP Cloud OS for Moonshot Administration Dashboard Help.

The following table describes the Create Region dialog UI elements:

UI element	Description

Region Name	This will be the region name that is used to initialize Keystone and to be displayed in the Administration Dashboard. **Note:** A region name must contain only letters and numbers; it cannot contain spaces or special characters.
Compute Controller	Select the node that will have the Compute Controller services.
Compute Nodes service	Specify which nodes will have the Compute Nodes service in one of the following ways: • Choose a number from the drop-down list to auto-select check boxes of the node(s) for you. • Individually select the check boxes of the node(s) you want.
Attributes tab	Use to specify property values required to create a Compute Region. From the Compute Host Type, select Moonshot Servers.
Create Compute Region	Click to begin creating the Compute Region. On the Manage Clouds page, the compute region will go through a series of steps to create an active compute region, showing the % completed until the Cloud's Status is Active. This indicates that the cloud and compute region have been successfully created. You can now add additional compute regions. The added compute regions appear on the Manage Clouds page as a comma-separated list.

Manage Clouds Details page

To access: Select the **Cloud** tab > **Manage Clouds** and click the cloud name link.

This page displays the values you used to create the cloud and compute regions.

The following table describes the Manage Clouds Details page UI elements:

UI element	Description
Created Cloud Info	
Name	Cloud name.
Creation Started	Timestamp of the date and time the cloud creation started.

Creation Ended	Timestamp of the date and time the cloud creation completed.
Cloud Controller	Node selected to be the Cloud Controller.
Network Controller	Node selected to be the Network Controller.
Storage Controller	Node selected to be the Storage Controller.
Cloud Attributes	• **Keystone Signing** —Specified `keystone.signing` method: `PKI` (default) or `UUID`. • **Cloud Type** — Physical • **Networking Mode** — Specified networking mode: `flat` (default). • **Local Volume File Name** — /var/lib/cinder/volume.raw • **DHCP enabled on Baremeta IPMI-enabled network** — True by default. • **Maximum Volume File Size (GB)** — Number specified for the maximum volume allowed in gigabytes. • **Provider Network Name** — flat_network1 by default. • **NIC Connected to Provider Network** — eth1
Regions Tabs — Each region is a separate tab with the following information specific to each region.	
Name	The name of the selected region.
Creation Started	Timestamp of the date and time the region creation started.
Creation Ended	Timestamp of the date and time the region creation completed.
Compute Controller	Node designated to be the Compute Controller for the selected region.
Compute Nodes	List of the allocated compute nodes for the selected region.
Compute Region Attributes	**Hypervisor** — designated hypervisor for the selected region; Baremetal by default. Type of Barmetal Node — Moonshot Server CPU Architecture — x86_64

Updates and Extensions

The following information provides details about the Updates and Extensions panel.

Concepts:

- Updates and Extensions overview

UI Descriptions:

- Updates and Extensions page
- Configure dialog
- Import dialog

Updates and Extensions overview

The updates and extensions feature allows you to connect to, list, and retrieve hot fixes and updates from the HP Cloud OS Distribution Network (CODN) and apply them to your HP Cloud OS for Moonshot environment. You can also import hot fixes and updates from a file system to the HP Cloud OS for Moonshot environment and install them. In this topic, such hot fixes and updates are referred to as *content packages*. After a package is installed, you can view product and package details.

The Update and Extensions page will be blank for the first-time user. You need to configure your credentials for the CODN to view the updates.

Updates and Extensions page

To access: Select the **Cloud** tab > **Updates and Extensions**.

The following table describes the Updates and Extensions page UI elements:

UI element	Description
Name column	The name of the content package. Click on the name to open a panel that shows details of the content package.
Version column	The version number of the content package.
Size (Bytes) column	The size of the content package file in bytes.
Provider column	The entity (such as a company name) that is the provider of the content package.
Type column	The type of content package.
Status	The current status of the content package.
Actions	Buttons, menus, or other items that can be used to perform some action.
Filter button and field	Enter a character string into the field to display only those content packages in the list that contain the string in any column. The filter function is not case-sensitive.
Configure button	Click to open the Configure dialog.

Download button	Click, and then click the **Download** button in the confirmation box that appears to download a copy of the content package from the catalog to your local system where you can use it.
More > View Progress	Select to view the progress of the operation. The View Progress dialog box that opens shows the progress of the operation at the time it is opened.
More > Install	Select to start the content package installation process. If install is not supported for a particular item, the install option will not be shown.

Configure dialog

To access: Select the **Cloud** tab > **Updates and Extensions**, and then the **Configure** button on the Updates and Extensions page.

The following table describes the Configure dialog UI elements:

UI element	Description
User Name	Enter the email address that you entered when you set up your account to access the CODN.
Password	Enter the password that you entered when you set up your account to access the CODN.
Sign up now link	If you do not have an account with CODN, click **Sign up now**. You will be redirected to the "Create Account" page of the CODN web site where you can sign up for an account to access the network.

Import Package dialog

To access: Select the **Cloud** tab, > **Updates and Extensions**, and then click the **Import** button on the Updates and Extensions page.

The following table describes the Import Package dialog UI elements:

UI element	Description
Choose File button	Click to open a standard operating system "open file" dialog box, in which you can browse to and select the content package to be imported to the Cloud OS Administration node from the client's local file system. Note that such package files have a .csu extension.
Import button	Click after choosing a valid content package (.csu) file using the **Choose File** button to import the file to the HP Cloud OS for Moonshot Administration node. If no file has been chosen, "No file chosen" will appear next to the **Choose File** button.

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Operational Dashboard: Settings tab

The Settings tab contains the following panels:

- User settings
- License
- About

For procedural instructions, see Install and configure your cloud.

User settings

This topic provides details about the User Settings panel. The following table describes the User Settings UI elements:

UI element	Description
Language	Defaults to English (en).
Timezone	Defaults to UTC (Coordinated Universal Time). To change the default, select the timezone for your area from the drop-down list.
Table page size	Defaults to 10 - a maximum of 10 line items can be displayed at one time. To change the default, enter a different number.
Log level	Defaults to Info. The five levels used for message logging are, in order of gravity: Critical, Error, Warning, Info, and Debug.

License

This topic provides details about the License panel.

On the License page, you can view the number of days remaining on your current HP Cloud OS for Moonshot license, and update the license if necessary. The following table describes the License UI elements:

UI element	Description

Number of days remaining on current license	The number of days currently remaining on the HP Cloud OS for Moonshot license. This field will show zero (0) when the license is expired. If the license has expired, you can still open the Operational and Administration Dashboards; however, you cannot use any of the remaining modifiable features until you renew the license.
Instance ID	A unique alphanumeric string that identifies the particular installation of HP Cloud OS for Moonshot to which the license applies. You must provide this identifier to HP Support in order to obtain a valid license key, and the license key will be valid only for the HP Cloud OS for Moonshot installation having this Instance ID.
License key	Enter a valid license key into this field and click the Save button to update the HP Cloud OS for Moonshot license. Contact your HP Support representative to obtain a valid license key. **Note:** After you click the **Save** button, about 20 minutes elapses before the new license is activated.
Save button	After entering a valid license key, click **Save** to update the HP Cloud OS for Moonshot license.

About

The About panel displays the version of the Operational Dashboard, the version of the HP Cloud OS for Moonshot build, and the copyright information.