



Public Cloud

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Getting Started with HP Public Cloud Console

Welcome to HP Public Cloud Console Horizon! HP Public Cloud wants you up and running quickly so this Getting Started guide walks you through network setup and connection (if not going with the default configuration setup when you activate compute services), instance and volume creation, security options, identity parameters, and management tools that facilitate your organization's use of HP Public Cloud. **This page takes you through the interface in the chronological order needed to get up and running, rather than the order displayed in the console.**

After initial setup, revisit the interface to monitor usage, modify, add, and delete networks, instances, volumes, roles, groups, and more. For the latest updates to the current HP Public Cloud Console release, see [What's new with HP Public Cloud Console](#).

For information on moving from the HP Classic Console to HP Public Cloud Console see [Feature Mapping: HP Classic Console to the HP Public Cloud Console](#).

The screenshot displays the HP Public Cloud management interface. At the top, the HP logo and 'Public Cloud' text are visible, along with the account ID '52368941-DOMAIN', a user profile icon, and 'Sign Out' and 'Support' links. On the left, a sidebar contains navigation options: 'Project/Region Scope' (with a dropdown for '-project1' and 'US West'), 'Identity', 'Project', and 'Metering'. The main content area is divided into three sections: 'Global Services', 'US East', and 'US West'. Each section features a table of services and their status.

Service	Region	Version	Status	Actions
Global Services + Activate Services				
DNS	US West	v1	Activated	DNS
Displaying 1 item				
US East + Activate Services				
Compute	US East	v13.5	Activated	Compute Instances More
Monitoring	US East	v1.1	Not Activated	Activate
Object Storage	US East	v1	Activated	Object Storage
Displaying 3 items				
US West + Activate Services				
Service	Region	Version	Status	Actions

At the bottom right of the console, there is a 'Chat with HP Cloud' button.

This page contains the following sections:

- [Creating and connecting a network](#)
- [Managing HP Public Cloud](#)
- [For further information](#)

Creating and connecting a network

This section includes how to:

- [Create a network](#)
- [Create a subnet](#)
- [Create a router](#)
- [Connect your network](#)

Note: A default configuration comes with HP Public Cloud compute activation and includes:

- A network

- A subnet
- A router connecting the subnets to the Internet
- A security group with basic server options, both SSH and Ping rules

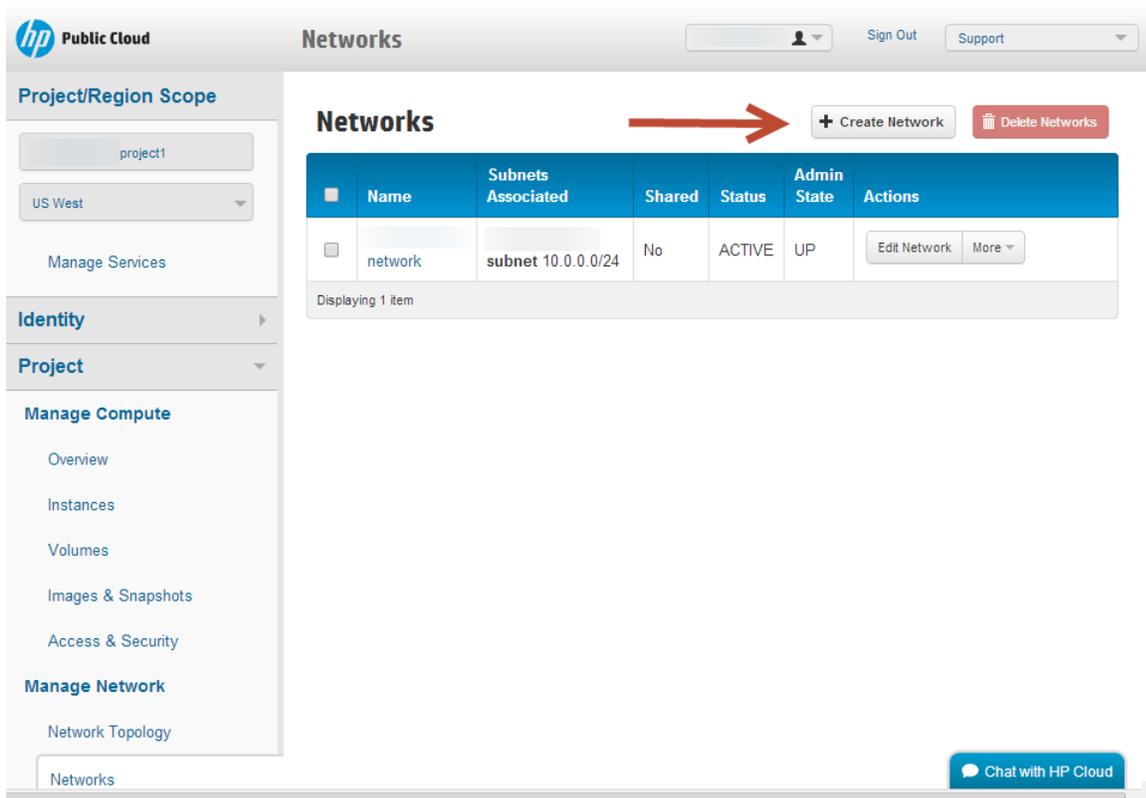
You can use the default network to deploy HP Public Cloud compute instances (virtual servers), or create a network configuration through the HP Public Cloud Console with the following instructions.

Create a network

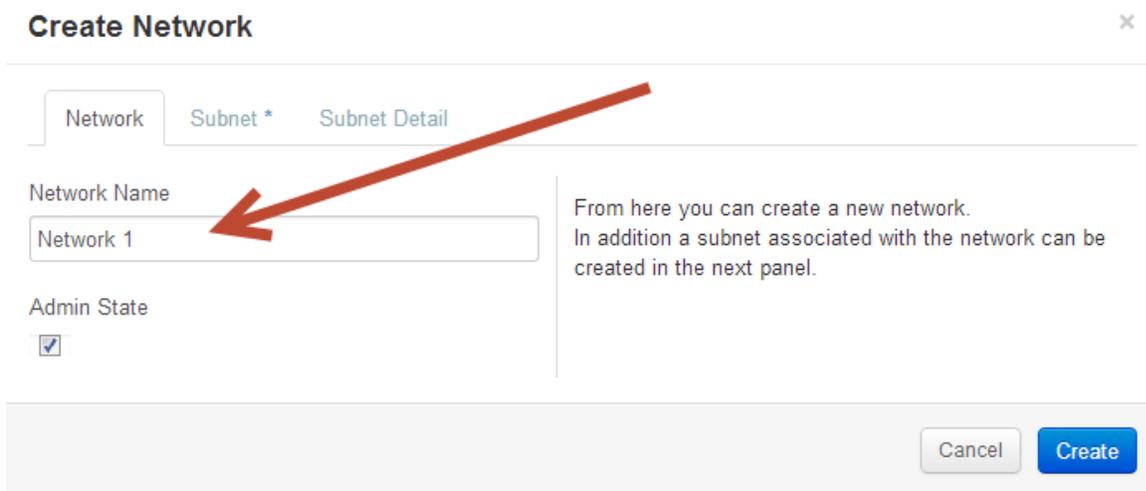
1. Login to HP Public Cloud with your username and password.
2. On the HP Public Cloud console interface, click "Project," on the left-side bar then "Networks" under "Manage Networks."

The screenshot shows the HP Public Cloud console interface. The left-hand navigation menu is expanded to show the 'Project' section, with 'Networks' highlighted under 'Manage Networks'. Two red arrows point to the 'Project' and 'Networks' menu items. The main content area displays three tables of services for different regions: Global, US East, and US West. Each table has columns for Service, Region, Version, Status, and Actions. The 'Global Services' table shows a single row for DNS in the US West region, which is activated. The 'US East' table shows three rows: Compute (v13.5, Activated), Monitoring (v1.1, Not Activated), and Object Storage (v1, Activated). The 'US West' table shows two rows: Compute (v13.5, Activated) and Monitoring (v1.1, Not Activated). Each table has a '+ Activate Services' button in the top right corner. The top of the console shows the HP Public Cloud logo, the account ID '52368941-DOMAIN', and 'Sign Out' and 'Support' buttons.

3. Click "+Create Network" in the right-hand navigation.



4. Enter a "Network Name" in the "Create Network" pop-up screen, leave the "Admin" State box checked, and continue to the directions in "Create a subnet" below.



Create a subnet

1. Click the "Subnet" tab in the "Create Network" pop-up screen. **Note:** If you click the "Create" button on the "Network" pop-up before setting up a "Subnet," you are prompted

to specify a network address or turn off the option to create a subnet through an error message.

2. Enter the subnet name.
3. Click in the "Network Address" box. The pop-up message states the network address is in Classless Inter-Domain Routing (CIDR) format; i.e., 000.000.0.0/00. Enter the network address displayed: 192.168.0.0/24.
4. Keep the IPv4 default in the "IP Version" box unless you know you have moved to IPv6.
5. Leave the "Gateway IP" box blank to use the default value of the network address; e.g., 192.168.0.1 for 192.168.0.0/24.
6. Leave the "Disable Gateway" box unchecked to use the default and click "Create."

The screenshot shows a "Create Network" dialog box with three tabs: "Network", "Subnet *", and "Subnet Detail". The "Subnet *" tab is selected. On the left, there is a "Create Subnet" section with a checked checkbox. Below it are input fields for "Subnet Name" (containing "Subnet 1") and "Network Address" (containing "192.168.0.0/24"). An "IP Version *" dropdown menu is open, showing "IPv4" selected. Below the dropdown is an empty "Gateway IP" field. At the bottom left is a "Disable Gateway" checkbox, which is unchecked. On the right side of the dialog, there is a text box with instructions: "You can create a subnet associated with the new network, in which case 'Network Address' must be specified. If you wish to create a network WITHOUT a subnet, uncheck the 'Create Subnet' checkbox." At the bottom right, there are "Cancel" and "Create" buttons.

7. The "Networks" screen displays your network name and associated subnets.

hp Public Cloud

Networks

project1

US West

Manage Services

Identity

- Instances
- Volumes
- Images & Snapshots
- Access & Security

Manage Network

- Network Topology
- Networks
- Routers

Manage Databases

- Database Instances

Networks

+ Create Network Delete Networks

Name	Subnets Associated	Shared	Status	Admin State	Actions
network	subnet 10.0.0.0/24	No	ACTIVE	UP	Edit Network More

Displaying 1 item

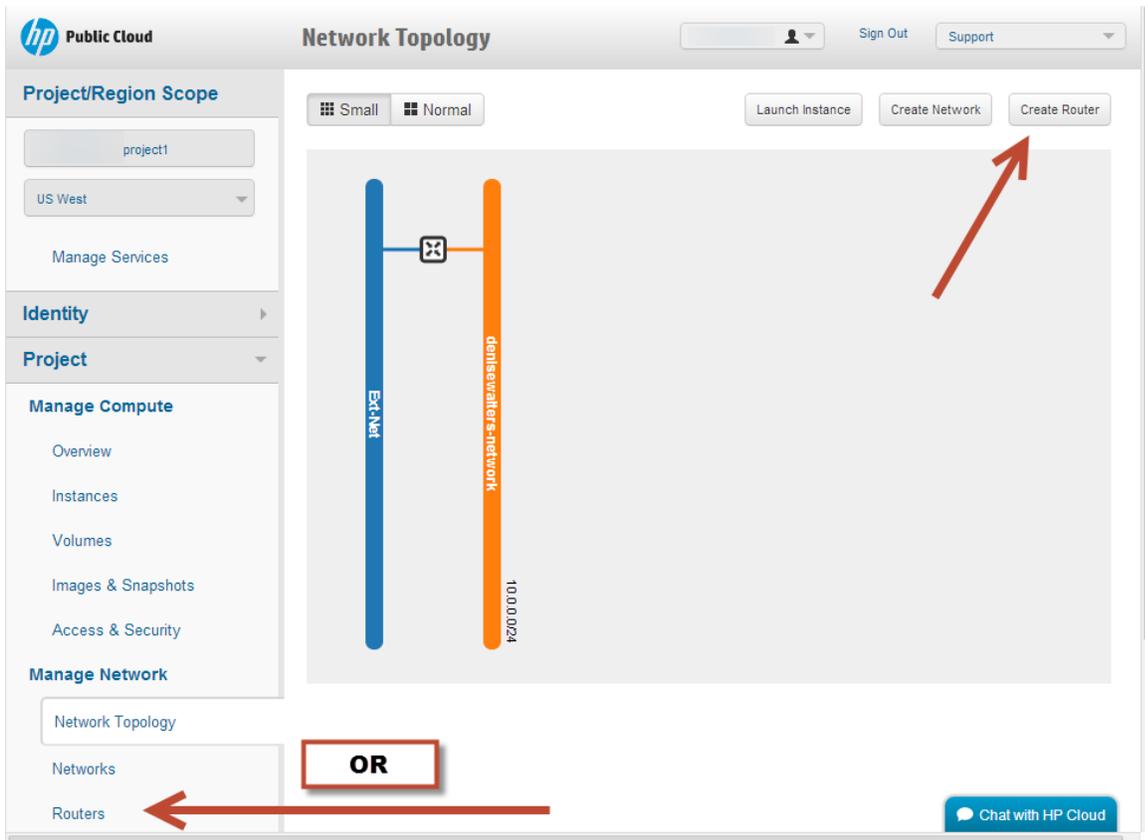
Chat with HP Cloud

- To see a graphic display of your network setup, click "Network Topology" under "Manage Network" in the left-hand navigation.

The screenshot displays the HP Public Cloud Network Topology interface. The main area shows a network diagram with two vertical bars: a blue one labeled "Ext-Net" and an orange one labeled "denisevratel's network" with IP address "10.0.0/24". A small square icon with an "X" is connected between the two bars. The left sidebar contains navigation menus for "Project/Region Scope", "Identity", "Project", "Manage Compute", and "Manage Network". The "Manage Network" section is expanded, showing "Network Topology" and "Networks". The top right has "Sign Out" and "Support" links. A "Chat with HP Cloud" button is at the bottom right.

Create a router

1. If on the "Network Topology" screen, click "Create Router" in the top right-hand navigation. If not, click "Routers" under the "Manage Network" heading in the left-hand navigation.



2. If you clicked "+Create Router" on the "Network Topology" screen, enter your router name and click "Create Router." If you clicked "Routers" under "Manage Network", click "+Create Router" in the upper right-hand navigation and enter the router name in the pop-up.
3. Click "Router" in the left-hand navigation to see the router name and status. **Note:** Click the router "Name" to display its ID number and status. If you do this, click "Routers" in the left-hand navigation to make the "Set Gateway" action available for the following step or click the "Back" button in your browser.

hp Public Cloud Router Details

Project/Region Scope: -project1, US West

Router Overview: [redacted]-router

Name: [redacted]-router

ID: 66f27723-1dae-45ee-[redacted]

Status: ACTIVE

External Gateway Information: Connected External Network: Ext-Net

Interfaces

Name	Fixed IPs	Status	Type	Admin State	Actions
(b93af5f9)	10.0.0.1	ACTIVE	Internal Interface	UP	Delete Interface

Displaying 1 item

Manage Compute: Overview, Instances, Volumes, Images & Snapshots, Access & Security

Manage Network: Network Topology, Networks, Routers

Manage Databases

Chat with HP Cloud

4. On the "Routers" page, click "Set Gateway" under "Actions" to connect your router to the Internet.

hp Public Cloud Routers

Project/Region Scope

-project1

US West

Manage Services

Identity

Project

Manage Compute

- Overview
- Instances
- Volumes
- Images & Snapshots
- Access & Security

Manage Network

- Network Topology
- Networks
- Routers

+ Create Router Delete Routers

Name	Status	External Network	Actions
-router	Active	-	Set Gateway More

Displaying 1 item

Chat with HP Cloud

5. Click the drop-down menu in the "External Network" box in the "Set Gateway" pop-up, select "Ext-Net," and click "Set Gateway."

Note: The external network is the router's default route, with the router acting as a gateway for external connectivity. While you can configure a subnet that is internal-only, you must connect it to another subnet with external connectivity.

Set Gateway x

External Network *

Ext-Net

Select network
Ext-Net

Router 1

Router ID *

c9b31b19-7295-456e-9387-09d91691b06b

Description:
You can connect a specified external network to the router. The external network is regarded as a default route of the router and the router acts as a gateway for external connectivity.

Cancel
Set Gateway

Connect your network

1. Click the router name on the "Routers" page.
2. Click "+Add Interface" on the far-right of the "Router Details" page.

Router Details

Router Overview: [redacted]-router

Name: [redacted]-router

ID: 6627723-1dae-45ee-[redacted]

Status: ACTIVE

External Gateway Information
Connected External Network: Ext-Net

Interfaces

[+ Add Interface](#)

Name	Fixed IPs	Status	Type	Admin State	Actions
No items to display.					
Displaying 0 items					

[Chat with HP Cloud](#)

3. Click the drop-down menu in the "Select Subnet" box in the "Add Interface" pop-up and click on the network you configured. **Note:** You can optionally specify an IP address in the box provided, but the default interface IP address is the selected subnet's external

gateway and the best choice unless you are setting up a more complicated connection. Any IP address you specify must belong to the subnet in the drop-down menu.

4. Click "Add Interface."

Add Interface ✕

Subnet *

Description:
You can connect a specified subnet to the router.
The default IP address of the interface created is a gateway of the selected subnet. You can specify another IP address of the interface here. You must select a subnet to which the specified IP address belongs to from the above list.

Router Name *

Router ID *

Important: To delete a network, you must delete any instances running on that network (instance creation covered below) and the router interface before deleting the network. If you don't have instances on the network, you still have to delete the router interface before deleting the network:

1. If you have created an instance, click "Instances" on the left-hand bar under "Manage Compute."
2. Select the check box for any instance running on the network you want to delete and click "Terminate Instances" in the upper right-hand navigation.
3. Click "Routers" under "Manage Network in the left-hand bar.
4. Click on the router "Name."
5. On the "Router Details" page, select the check box next to the "Interface" name, and click "Delete Interface."
6. Click "Networks" in the left-hand bar, select the check box next to the network you want to delete, and click "Delete Networks" in the upper right-hand navigation.

Managing HP Public Cloud

You are now ready to use the options under "Manage Compute" under "Project" in the left-hand navigation. This section includes:

- [Overview](#)
- [Create an instance](#)
- [Create and attach a volume](#)
- [Images and Snapshots](#)
- [Access and Security](#)

Overview

Select "Overview" under "Manage Compute," to display your usage summary and quotas for:

- Instances
- VPCUs
- RAM
- Floating IPs
- Security Groups

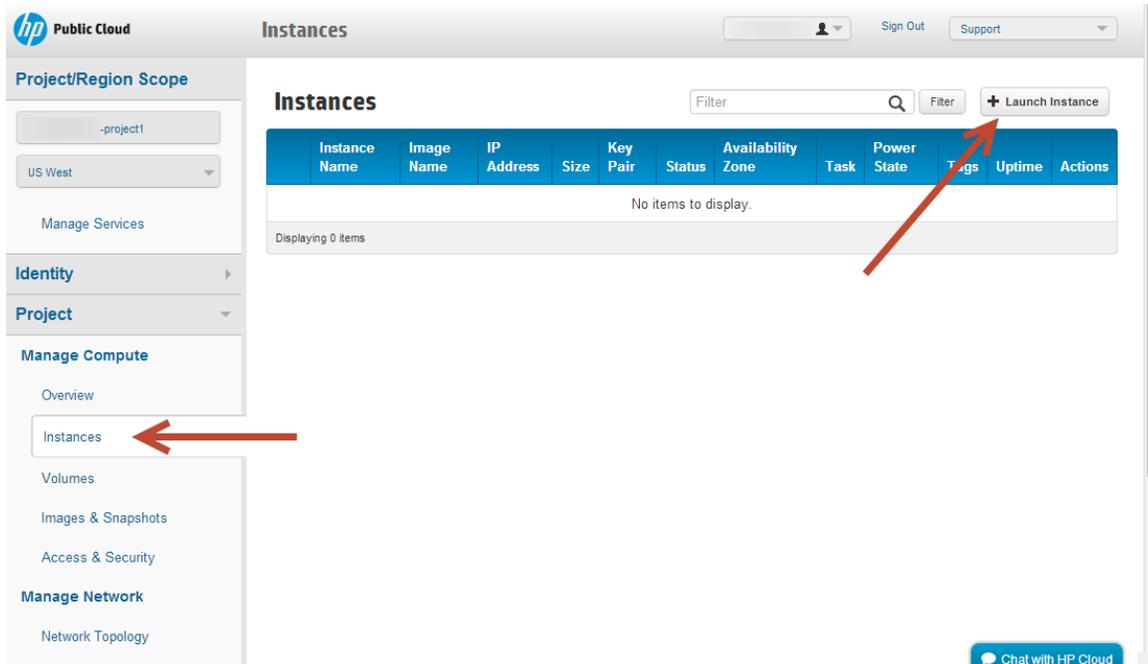
As you use HP Public Cloud, click on the "Overview" options any time to query current usage as well as usage during specific time frames.

Create an instance

An instance is a virtual server.

Note: HP Public Cloud provides a list of images from which you can boot an instance. While you can also boot from an HP Public Cloud instance you have launched using "Images and Snapshots," it is unnecessary to get up and running and beyond the scope of this document.

1. Click "Instances" under "Manage Compute" in the left-hand navigation.
2. Click "+Launch Instance" in the upper right-hand navigation of the screen.



3. You can leave the default choice of the "Any Availability Zone" (AZ) box, which arbitrarily assigns an AZ for an instance or click the drop box to specify where to locate an instance. **Note:** The default choice locating an instance in any AZ offers high availability, ensuring a high level of operational performance. You can also specify an AZ for an instance if you want to segregate AZs per function for your own organizational purposes; e.g., you could select AZ1 for your data center, and set the remaining two up later for other discrete functions. Such a setup is completely optional as the AZs share all information and work in tandem.
4. Enter a name in the "Instance Name" box.
5. Click the drop-down menu under "Flavor" to select the hardware configuration you want to emulate, i.e., how much disk space and RAM you need. When you select a flavor, the "Flavor Details" box displays the following:
 - Name
 - # of VCPUs
 - Root disk size
 - Ephemeral disk size
 - Total disk size
 - RAM usage

Note The "Project Limits" box under "Flavor Details" graphically displays quotas allowed and usage of Instances, VCPUs, and Total RAM after you select a flavor.

Launch Instance

×

Details *

Access & Security

Networking

Post-Creation

Availability Zone

Any Availability Zone

Instance Name *

Instance 1

Flavor *

standard.medium

standard.xsmall

standard.small

standard.medium

standard.large

standard.xlarge

highmem.large

standard.2xlarge

highmem.xlarge

standard.4xlarge

highmem.2xlarge

standard.8xlarge

Specify the details for launching an instance.

The chart below shows the resources used by this project in relation to the project's quotas.

Flavor Details

Name	standard.me...
VCPUs	2
Root Disk	30 GB
Ephemeral Disk	50 GB
Total Disk	80 GB
RAM	4.096 MB

Project Limits

Number of Instances	0 of 40 Used
Number of VCPUs	0 of inf Used
Total RAM	0 of 204,800 MB Used

Cancel

Launch

6. Enter the number of instances you want to create under "Instance Count."
7. Select the "Instance Boot Source" source from the drop-down menu. To select an HP Cloud default image, select "Boot from Image" from the drop-down.

Launch Instance



Details *

Access & Security

Networking

Post-Creation

Availability Zone

Any Availability Zone

Instance Name *

Instance 1

Flavor *

standard.medium

Instance Count *

1

Instance Boot Source *

Boot from image.

--- Select source ---

Boot from image.

Boot from snapshot.

Boot from volume.

Boot from volume snapshot (creates a new volume).

Specify the details for launching an instance.

The chart below shows the resources used by this project in relation to the project's quotas.

Flavor Details

Name	standard.me...
VCPUs	2
Root Disk	30 GB
Ephemeral Disk	50 GB
Total Disk	80 GB
RAM	4,096 MB

Project Limits

Number of Instances 0 of 40 Used

Number of VCPUs 0 of inf Used

Total RAM 0 of 204,800 MB Used

Cancel

Launch

- Click the "Select Image" drop down under "Image Name." Select one of the images HP Public Cloud provides.

Launch Instance

Details * Access & Security Networking Post-Creation

Availability Zone
Any Availability Zone

Instance Name *
Instance 1

Flavor *
standard.medium

Instance Count *
1

Instance Boot Source *
Boot from image.

Image Name
Debian Wheezy 7.1 Server 64-bit 20130701 (b)

Select Image
Public Images - Linux
CentOS 5.8 Server 64-bit 20120828 (b) (291.3 MB)
CentOS 6.3 Server 64-bit 20130116 (b) (310.0 MB)
Debian Squeeze 6.0.3 Server 64-bit 20120123 (deprecated) (1.2 GB)
Debian Wheezy 7.1 Server 64-bit 20130701 (b) (218.4 MB)
Fedora 18 Server 64-bit 20130326 (b) (270.1 MB)
SUSE Linux Enterprise Server 11 SP3 20130820 (b) (417.8 MB)
Ubuntu Lucid 10.04 LTS Server 64-bit 20111212 (deprecated) (1.4 GB)
Ubuntu Lucid 10.04 LTS Server 64-bit 20130909.hp2 (b) (233.6 MB)
Ubuntu Oneiric 11.10 Server 64-bit 20130103 (b) (deprecated) (222.3 MB)
Ubuntu Precise 12.04 LTS Server 64-bit (Rescue Image) 20130114 (b) (224.1 MB)
Ubuntu Precise 12.04 LTS Server 64-bit 20121026 (b) (222.4 MB)
Ubuntu Quantal 12.10 Server 64-bit 20121017 (b) (209.6 MB)
Ubuntu Raring 13.04 Server 64-bit 20130601 (b) (224.1 MB)

Specify the details for launching an instance.
The chart below shows the resources used by this project in relation to the project's quotas.

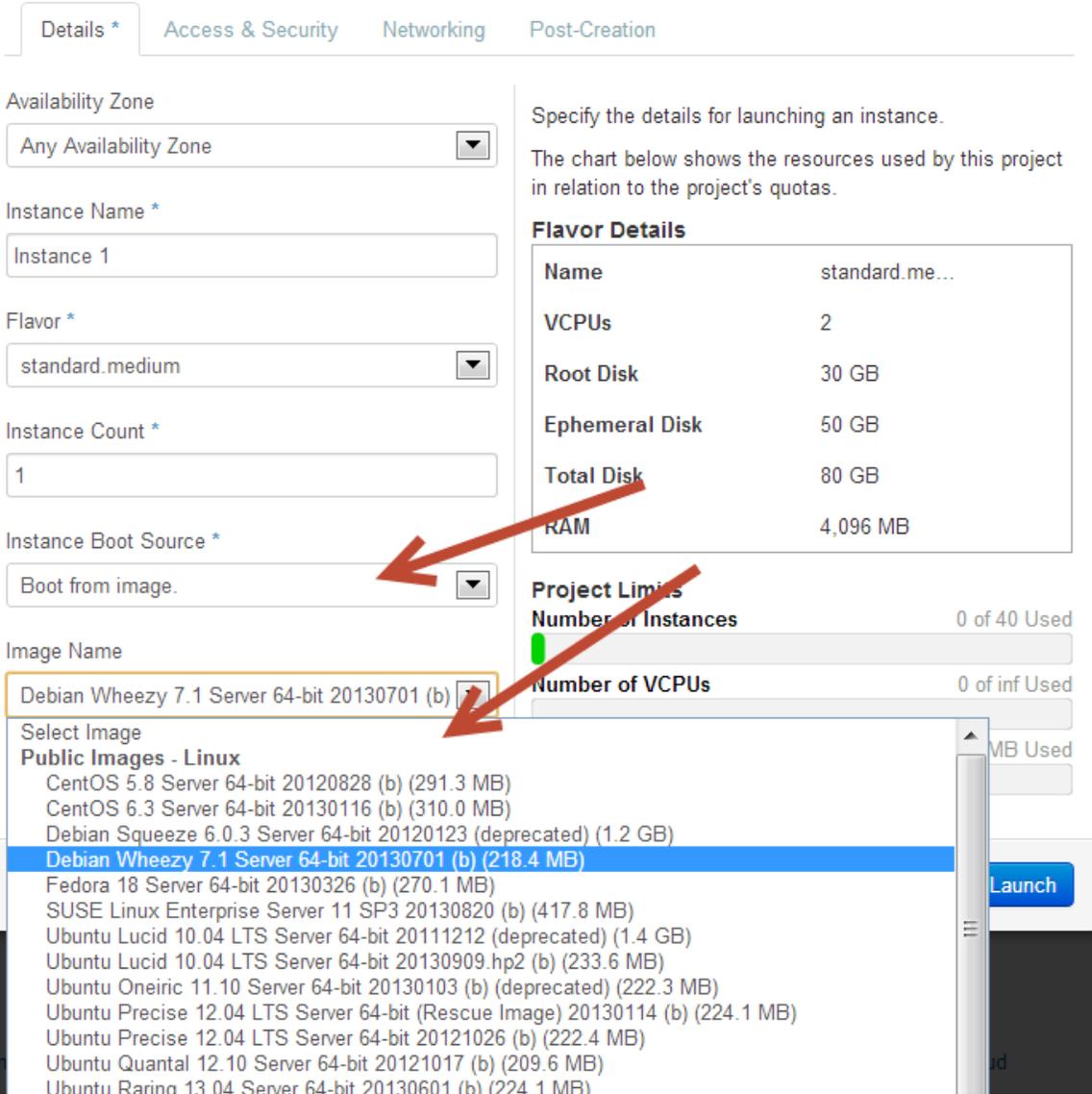
Flavor Details

Name	standard.me...
VCPUs	2
Root Disk	30 GB
Ephemeral Disk	50 GB
Total Disk	80 GB
RAM	4,096 MB

Project Limits

Number of Instances	0 of 40 Used
Number of VCPUs	0 of inf Used
MB Used	

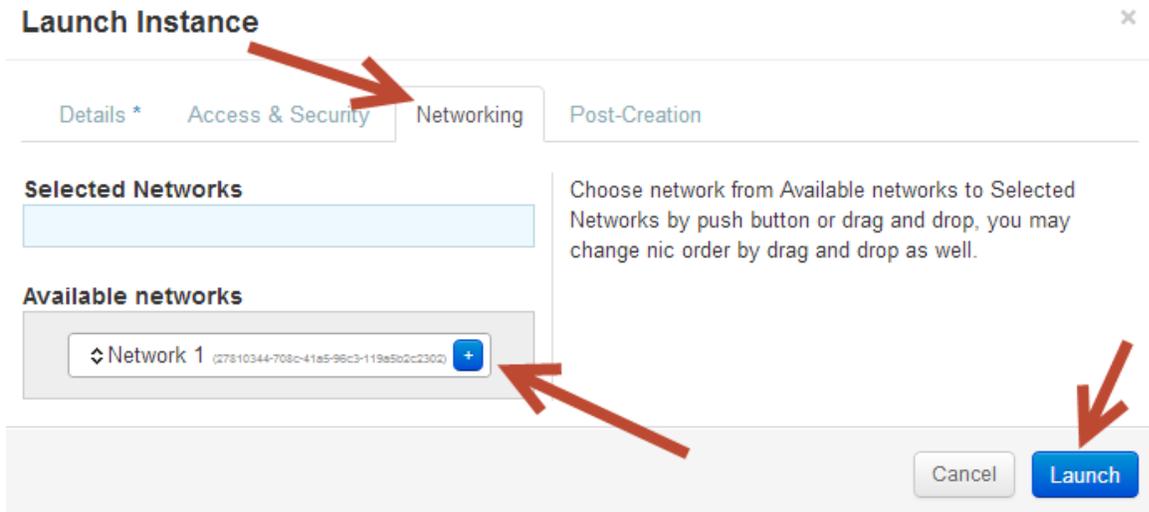
Launch



- Click the "Networking" tab in the upper navigation of "Launch Instance" and click the "+" next to the network you want to launch an instance from. You can also drag and drop the network from which you want to launch the instance from the "Available Networks" box to the "Selected Networks" box.

Note If you click "Launch" before clicking the "Networking" tab, an error message displays; however, you can still select the network desired from the "Available Network" box to the "Selected Networks" box.

- Click "Launch."



Create and Attach a Volume

A volume is a block storage device you attach to an instance.

Note: HP Public Cloud provides a list of images from which you can boot an instance or volume. While you can also boot from an HP Public Cloud instance you have launched using "Images and Snapshots," it is unnecessary to get up and running in HP Public Cloud and beyond the scope of this document.

1. In the left-hand navigation, click "Volumes" under "Manage Compute."
2. Click "+Create Volume" in the upper right-hand navigation.

hp Public Cloud Volumes

Project/Region Scope

-project1

US West

Manage Services

Identity

Project

Manage Compute

Overview

Instances

Volumes

Images & Snapshots

Access & Security

Manage Network

Network Topology

Filter

Filter

+ Create Volume

Name	Description	Size	Status	Type	Attached To	Availability Zone	Actions
No items to display.							
Displaying 0 items							

Volume Backups

Name	Description	Size	Status	Source Volume	Actions
No items to display.					
Displaying 0 items					

Chat with HP Cloud

3. Enter a name under "Volume Name" and, optionally, a description in the box below and a "Type" from the following drop-down menu.
4. Staying within the "Volume Limits" shown in the "Create Volume" box, enter a number of GBs under "Size."

Create Volume ×

Volume Name *

Description

Type

Size (GB) *

Volume Source

Availability Zone

Description:
Volumes are block devices that can be attached to instances.

Volume Limits

Total Gigabytes (0 GB)	3,000 GB Available
Number of Volumes (0)	20 Available

5. Select a volume source from the drop-down menu.
6. If you select "Image" as your volume source, click the drop-down menu for "Choose an image" under the "Use image as a source" box that appears. Click on the image you want to use.

Create Volume



Volume Name *

Description

Type

Size (GB) *

Volume Source

Use image as a source

- Choose an image
- Windows Server 2008 R2 Enterprise SP1 x64 Volume License 20130925 (b) (5.0 GB)
- Windows Server 2008 Enterprise SP2 x86 Volume License 20131017 (b) (4.1 GB)
- Windows Server 2008 Enterprise SP2 x64 Volume License 20131017 (b) (6.1 GB)
- SUSE Linux Enterprise Server 11 SP3 20130820 (b) (417.8 MB)
- Ubuntu Lucid 10.04 LTS Server 64-bit 20130909.hp2 (b) (233.6 MB)
- Windows Server 2008 Enterprise SP2 x86 Volume License 20130808 (b) (deprecated) (4.2 GB)
- Windows Server 2008 Enterprise SP2 x64 Volume License 20130808 (b) (deprecated) (6.4 GB)
- Windows Server 2008 R2 Enterprise SP1 x64 Volume License 20130808 (b) (deprecated) (5.4 GB)
- CentOS 6.3 Server 64-bit 20130116 (b) (310.0 MB)
- Debian Wheezy 7.1 Server 64-bit 20130701 (b) (218.4 MB)
- Fedora 19 Server 64-bit 20130627 (b) - Partner Image (226.4 MB)
- Ubuntu Raring 13.04 Server 64-bit 20130601 (b) (224.1 MB)
- ActiveState Stackato-v2.10.4 - Partner Image (1.4 GB)
- Ubuntu Quantal 12.10 Server 64-bit 20121017 (b) (209.6 MB)
- Ubuntu Precise 12.04 LTS Server 64-bit (Rescue Image) 20130114 (b) (224.1 MB)
- Ubuntu Precise 12.04 LTS Server 64-bit 20121026 (b) (222.4 MB)
- Ubuntu Oneiric 11.10 Server 64-bit 20130103 (b) (deprecated) (222.3 MB)
- Ubuntu Lucid 10.04 LTS Server 64-bit 20111212 (deprecated) (1.4 GB)
- Fedora 18 Server 64-bit 20130326 (b) (270.1 MB)

Description:

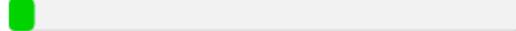
Volumes are block devices that can be attached to instances.

Volume Limits

Total Gigabytes (0 GB) 3,000 GB Available



Number of Volumes (0) 20 Available



7. Select an AZ. HP Public Cloud recommends the pre-filled "Any Availability Zone."
8. Click "Create Volume."

Create Volume ×

Volume Name *

Description

Type

Size (GB) *

Volume Source

Use image as a source

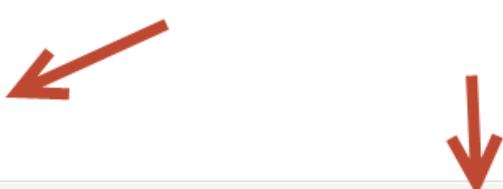
Availability Zone

Description:
Volumes are block devices that can be attached to instances.

Volume Limits

Total Gigabytes (0 GB) 3,000 GB Available

Number of Volumes (0) 20 Available



- To attach the volume to an instance, click "Edit Volume" under "Action" on the "Volumes" page.

The screenshot displays the HP Public Cloud Volumes management interface. The top navigation bar includes the HP logo, 'Public Cloud', and 'Volumes'. The sidebar on the left provides navigation for 'Project/Region Scope' (showing '-project1' and 'US West'), 'Identity', 'Project', 'Manage Compute' (with sub-options: Overview, Instances, Volumes, Images & Snapshots, Access & Security), and 'Manage Network' (with sub-option: Network Topology). The main content area is titled 'Volumes' and features a search filter, '+ Create Volume', and 'Delete Volumes' buttons. A table lists one volume:

Name	Description	Size	Status	Type	Attached To	Availability Zone	Actions
Volume 1	Big volume, lots of important stuff. ...	200GB	Available	-		az3	Edit Volume More ▾

Below the table, it indicates 'Displaying 1 item'. A red arrow points to the 'Edit Volume' button in the 'Actions' column. Underneath is a 'Volume Backups' section with a table that currently shows 'No items to display.' and 'Displaying 0 items'. A 'Chat with HP Cloud' button is located at the bottom right.

10. Select an instance to attach the volume to from the drop-down menu on the "Manage Volume Attachments" page.
11. Under "Device Name," you can specify a location in the system if desired or enter the displayed default. **Note:** If choosing the default, you must still enter it manually even though it is displayed (greyed out). Otherwise, you receive an error message that you must specify a location.
12. Click "Attach Volume."

Attachments

Instance	Device	Actions
No items to display.		
Displaying 0 items		

Attach To Instance

Attach to Instance *

Select an instance

- Select an instance
- Instance 1 (21ec6158-937f-4983-b21f-412e038229b8)

Device Name *

/dev/vdc

Cancel Attach Volume

Images and Snapshots

Functionality Overview

Important: HP Public Cloud provides a list of images from which you can boot an instance. While you can also boot from an HP Public Cloud instance you have launched and customized using "Images and Snapshots," it is unnecessary to get up and running in the Cloud and beyond the scope of this document.

While this document does not cover creating snapshots, click "Images and Snapshots" in the left-hand bar to view available server and volume images and their details. For more details, click the image name on the "Images" page. Images listed under "Public" are available to anyone. "Project" images are for your specific project only.

Access and Security

Security groups and security group rules allow you to specify the type of traffic and direction (inbound/outbound) that are allowed to pass through a project's network port(s). When you create a project in HP Public Cloud, you must also create security group rules to define access types through its ports, designating security group members depending on their job functions and access needs.

When a port is created in HP Cloud Networking it is associated, unless you specify otherwise, with a default security group that allows inbound traffic from the same subnet and all outbound traffic. You can add security group rules to the default security group to modify access or create a new security group to contain the rules you need.

Security group rules have three parts:

1. Rule - A rule template or rules you create. For example, if setting up a VM as a mail server, you might select Custom TCP Rule, Custom UDP Rule, or Custom ICMP Rule.
2. Open Port/Port Range: Open a single port or a range of ports.
3. Remote: For this rule, you must specify the source of allowed traffic in either the form of an IP address block (CIDR) or through a security group.

Default security group

1. Click "Access & Security" in the left-hand bar under "Manage Compute" and "Project" to begin.

The screenshot displays the HP Public Cloud console interface. On the left, the navigation menu is expanded to show 'Access & Security' under the 'Manage Compute' section. The main content area is divided into three regional sections: 'Global Services', 'US East', and 'US West'. Each section contains a table of services and their status. A red arrow points to the 'Access & Security' link in the navigation bar.

Service	Region	Version	Status	Actions
DNS	US West	v1	Activated	DNS

Displaying 1 item

Service	Region	Version	Status	Actions
Compute	US East	v13.5	Activated	Compute Instances More
Monitoring	US East	v1.1	Not Activated	Activate
Object Storage	US East	v1	Activated	Object Storage

Displaying 3 items

Service	Region	Version	Status	Actions
---------	--------	---------	--------	---------

2. A default security group is already set up. To display the default rules, click the "Edit Rules" button next to "default" on the "Security Groups" page. As shown below, the default security group rules have "Ether Types" IPv4 and IPv6 set up for "Ingress" (Incoming) and "Egress" (Outbound) directions. **Note:** It may be easiest to add any new

security group rules to the default group so you do not have to recreate ingress and egress directions.

Security Group Rules

<input type="checkbox"/>	Direction	Ether Type	IP Protocol	Port Range	Remote	Actions
<input type="checkbox"/>	Ingress	IPv4	Any	-	default	Delete Rule
<input type="checkbox"/>	Egress	IPv6	Any	-	::/0 (CIDR)	Delete Rule
<input type="checkbox"/>	Ingress	IPv4	ICMP	-	0.0.0.0/0 (CIDR)	Delete Rule
<input type="checkbox"/>	Egress	IPv4	Any	-	0.0.0.0/0 (CIDR)	Delete Rule
<input type="checkbox"/>	Ingress	IPv6	Any	-	default	Delete Rule
<input type="checkbox"/>	Ingress	IPv4	TCP	22 (SSH)	0.0.0.0/0 (CIDR)	Delete Rule

Displaying 6 items

+ Add Rule Delete Rules

Chat with HP Cloud

3. Click the "+Add Rule" button in the top-right navigation if you want to create a new rule in the default security group.

hp Public Cloud Edit Security Group Rules: default Sign Out Support

Project/Region Scope

-project1

US West

Manage Services

Identity

Project

Manage Compute

Overview

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Manage Network

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Security Group Rules

[+ Add Rule](#) [Delete Rules](#)

<input type="checkbox"/>	Direction	Ether Type	IP Protocol	Port Range	Remote	Actions
<input type="checkbox"/>	Ingress	IPv4	Any	-	default	Delete Rule
<input type="checkbox"/>	Egress	IPv6	Any	-	::/0 (CIDR)	Delete Rule
<input type="checkbox"/>	Ingress	IPv4	ICMP	-	0.0.0.0/0 (CIDR)	Delete Rule
<input type="checkbox"/>	Egress	IPv4	Any	-	0.0.0.0/0 (CIDR)	Delete Rule
<input type="checkbox"/>	Ingress	IPv6	Any	-	default	Delete Rule
<input type="checkbox"/>	Ingress	IPv4	TCP	22 (SSH)	0.0.0.0/0 (CIDR)	Delete Rule

Displaying 6 items

[Chat with HP Cloud](#)

4. In the "Add Rule" box, make selections for the rule as outlined below. Additional selections may pop up depending on your setup choices.

Add Rule ✕

Rule *

Direction

Open Port *

Port

Remote *

CIDR

Description:
Rules define which traffic is allowed to instances assigned to the security group. A security group rule consists of three main parts:

Rule: You can specify the desired rule template or use custom rules, the options are Custom TCP Rule, Custom UDP Rule, or Custom ICMP Rule.

Open Port/Port Range: For TCP and UDP rules you may choose to open either a single port or a range of ports. Selecting the "Port Range" option will provide you with space to provide both the starting and ending ports for the range. For ICMP rules you instead specify an ICMP type and code in the spaces provided.

Remote: You must specify the source of the traffic to be allowed via this rule. You may do so either in the form of an IP address block (CIDR) or via a source group (Security Group). Selecting a security group as the source will allow any other instance in that security group access to any other instance via this rule.

5. Click the "Rule" drop-down box and make a selection based on the function of your VM.
6. Select "Port" to open a single port, or "Port Range" to specify a range from the drop-down under "Open Port." Enter the port number or start and end port numbers based on your selection.
7. Select "CIDR" or "Security Group" from the drop-down under "Remote" to specify the source of the allowed traffic for the rule. If CIDR, enter an IP address block under "CIDR." If "Security Group," select the name from the drop-down box, then designate IPv4 or IPv6 under "Ether Type." If you do not already know you are using IPv6, select IPv4.
8. Click "Add."
9. To delete a rule from the default group, click "Access & Security" in the left-hand bar, then click "Edit Rules" to the right of the default security group, which is what you did to add a rule.
10. Click "Delete Rule" next to the rule you want to get rid of.

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Security Group Rules

+ Add Rule

Delete Rules

<input type="checkbox"/>	Direction	Ether Type	IP Protocol	Port Range	Remote	Actions
<input type="checkbox"/>	Ingress	IPv4	Any	-	default	Delete Rule
<input type="checkbox"/>	Egress	IPv6	Any	-	::/0 (CIDR)	Delete Rule
<input type="checkbox"/>	Ingress	IPv4	ICMP	-	0.0.0.0/0 (CIDR)	Delete Rule
<input type="checkbox"/>	Egress	IPv4	Any	-	0.0.0.0/0 (CIDR)	Delete Rule
<input type="checkbox"/>	Ingress	IPv6	Any	-	default	Delete Rule
<input type="checkbox"/>	Ingress	IPv4	TCP	22 (SSH)	0.0.0.0/0 (CIDR)	Delete Rule



Displaying 6 items

Chat with HP Cloud

New security group

1. Click "Access & Security" in the left-hand bar under "Manage Compute" and "Project" to begin.

The screenshot shows the HP Public Cloud management console interface. The left-hand navigation bar is expanded to show the 'Project' section, which includes 'Manage Compute'. Under 'Manage Compute', the 'Access & Security' option is highlighted with a red arrow. The main content area displays three sections: 'Global Services', 'US East', and 'US West', each with a table of services and their status.

Global Services

Service	Region	Version	Status	Actions
DNS	US West	v1	Activated	DNS

Displaying 1 item

US East

Service	Region	Version	Status	Actions
Compute	US East	v13.5	Activated	Compute Instances More ▾
Monitoring	US East	v1.1	Not Activated	Activate
Object Storage	US East	v1	Activated	Object Storage

Displaying 3 items

US West

Service	Region	Version	Status	Actions
---------	--------	---------	--------	---------

Chat with HP Cloud

2. Click "+Create Security Group" in the upper right-hand navigation.

The screenshot shows the HP Public Cloud console interface. At the top, the 'hp Public Cloud' logo is on the left, and 'Access & Security' is the main header. On the right, there are 'Sign Out' and 'Support' links. A left-hand navigation menu includes sections for 'Project/Region Scope' (with a dropdown for '-project1' and 'US West'), 'Identity', 'Project', 'Manage Compute' (with sub-items: Overview, Instances, Volumes, Images & Snapshots), 'Access & Security' (highlighted), and 'Manage Network' (with sub-item: Network Topology). The main content area is titled 'Security Groups' and has tabs for 'Security Groups', 'Key Pairs', 'Floating IPs', and 'API Access'. A red arrow points to the '+ Create Security Group' button. To its right is a 'Delete Security Groups' button. Below these buttons is a table with columns 'Name' and 'Description', and an 'Actions' column. The table contains one row with 'default' in both columns and an 'Edit Rules' button in the actions column. Below the table, it says 'Displaying 1 item'. At the bottom right, there is a 'Chat with HP Cloud' button.

3. Enter a name in ASCII-only characters and numbers, a description, then click "Create Security Group."
4. Click "Edit Rules" next to the new security group under "Actions" in the right-hand navigation to add security group rules.

hp Public Cloud Access & Security

Project/Region Scope

-project1

US West

Manage Services

Identity

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Manage Compute

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Manage Network

Network Topology

Security Groups Key Pairs Floating IPs API Access

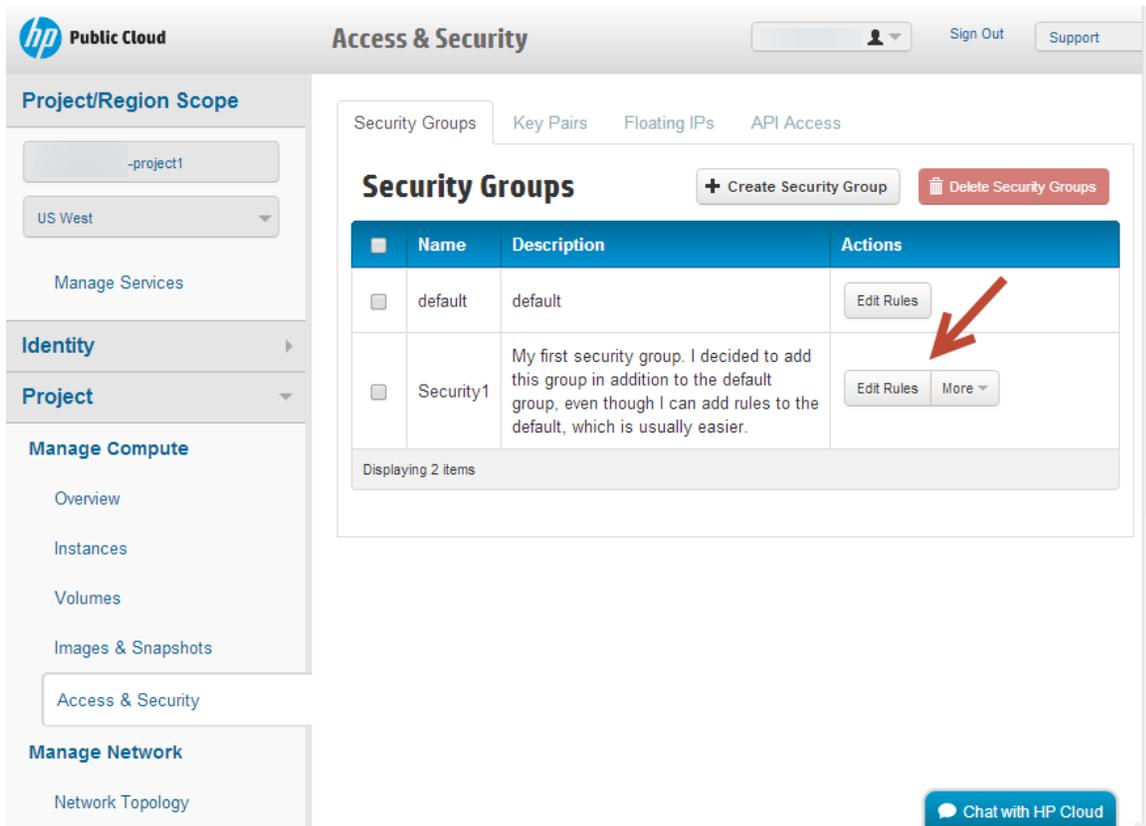
Security Groups

+ Create Security Group Delete Security Groups

<input type="checkbox"/>	Name	Description	Actions
<input type="checkbox"/>	default	default	Edit Rules
<input type="checkbox"/>	Security1	My first security group. I decided to add this group in addition to the default group, even though I can add rules to the default, which is usually easier.	Edit Rules More

Displaying 2 items

Chat with HP Cloud



5. Click the "+Add Rule" button in the top-right navigation.

hp Public Cloud Edit Security Group Rules: Security

Project/Region Scope

-project1

US West

Manage Services

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Network Topology

Security Group Rules

+ Add Rule Delete Rules

	Direction	Ether Type	IP Protocol	Port Range	Remote	Actions
<input type="checkbox"/>	Egress	IPv4	Any	-	0.0.0.0/0 (CIDR)	Delete Rule
<input type="checkbox"/>	Egress	IPv6	Any	-	:::/0 (CIDR)	Delete Rule

Displaying 2 items

Chat with HP Cloud

6. Click the "Rule" drop-down in the "Add Rule" box and make a selection based on the function of your VM.
7. Click the "Direction" drop-down box and select "Egress" to designate outbound traffic or "Ingress" to designate inbound traffic.
8. Select "Port" to open a single port, or "Port Range" to specify a range from the drop-down under "Open Port." Enter the port number or start and end port numbers based on your selection.
9. Select "CIDR" or "Security Group" from the drop-down under "Remote" to specify the source of the allowed traffic for the rule. If CIDR, enter an IP address block under "CIDR." If "Security Group," select the name from the drop-down box, then designate IPv4 or IPv6 under "Ether Type." If you do not already know you are using IPv6, select IPv4.
10. Click "Add" and your new rule displays in the security group.

hp Public Cloud Edit Security Group Rules: Security

Project/Region Scope

denisewalters-project1

US West

Manage Services

Identity

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Access & Security

Manage Network

Network Topology

Security Group Rules

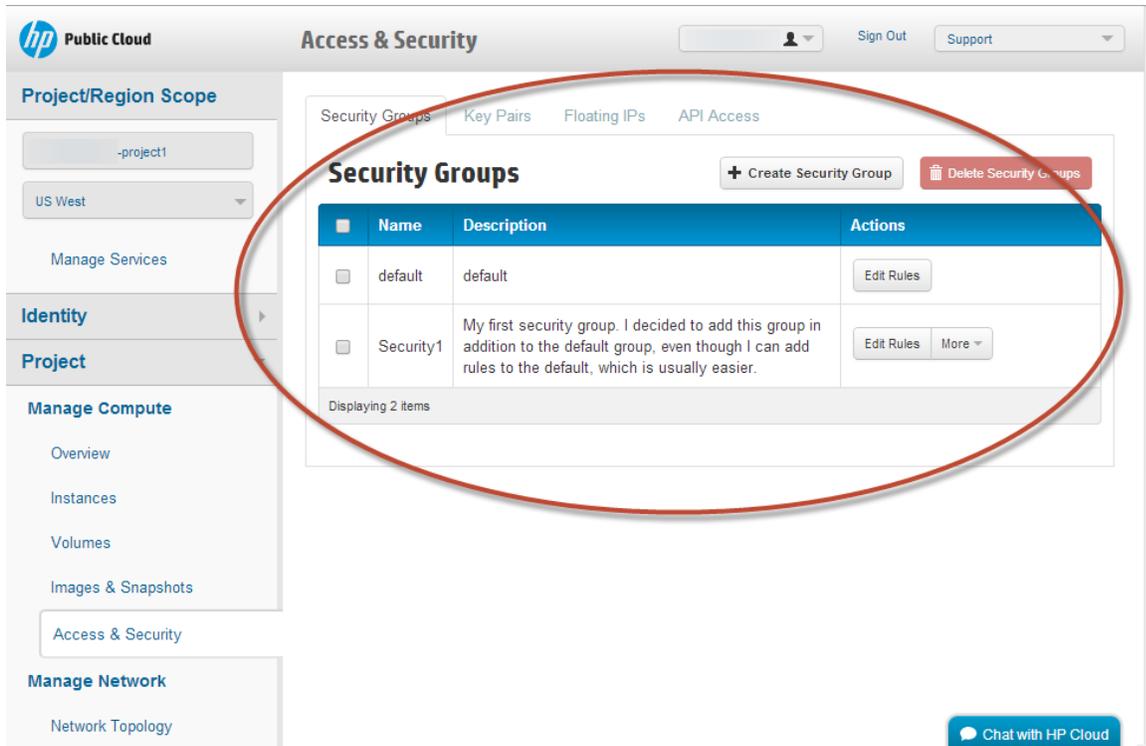
+ Add Rule Delete Rules

<input type="checkbox"/>	Direction	Ether Type	IP Protocol	Port Range	Remote	Actions
<input type="checkbox"/>	Egress	IPv4	Any	-	0.0.0.0/0 (CIDR)	Delete Rule
<input type="checkbox"/>	Ingress	IPv4	TCP	1	Security1	Delete Rule
<input type="checkbox"/>	Egress	IPv6	Any	-	:::0 (CIDR)	Delete Rule

Displaying 3 items

Chat with HP Cloud

11. Click "Delete Rule" next to a rule you want to get rid of.
12. Click "Access & Security" in the left-hand bar to display your security groups.



Organize and manage HP Cloud Access

Click "Identity" in the left-hand interface to display links:

- Domain - The domain is your primary work space in HP Public Cloud. An individual or company can be the domain owner and enables a project with the necessary services and permissions. The first user created in a domain is considered the domain owner and placed in both the "Users" and "Domain Administrators" groups.

A domain has one owner and may have multiple users, groups and roles. A domain owner can allow users of another domain access to its projects.

- Projects - A project is a collection of HP Public Cloud services, e.g., compute, storage, etc. within a domain A project is defined by selecting services to be activated and a set of users to interact with the services. A project may contain multiple services, such as compute or object storage. Services can exist multiple times within the same project as long as they have different service endpoints, distinguished by their geography and region.
- Users - Users are defined individually and can be assigned to groups and granted roles either directly or through inclusion in groups. A user may have multiple roles.

- Groups - When you create a domain, two default groups are created: Users and Domain Administrators. Domain Administrators can add individuals to a group and create new groups, which may contain multiple users.
- Roles - A role is a user or group capability within a service that determines access rights. Roles include Compute Admin, Network Admin, Object Storage Admin, and others. Domain owners can assign roles to individuals or groups. A role may be associated with multiple users and multiple groups.

For further information

*For the latest updates to the current HP Public Cloud Console release, see [What's new with HP Public Cloud Console](#).. * For basic information about our HP Cloud compute services, take a look at the [HP Cloud compute overview](#) page * If you'd rather use the HP Cloud Command Line Interface (CLI) features, choose your topic of interest from our [HP CCloud CLI](#) pages.

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