# HP Cloud OS for Moonshot Support Matrix

Version 1

# HP Cloud OS for Moonshot: Support Matrix

This document is an overview of the supported hardware and software for the HP Cloud OS for Moonshot Version 1.0, including information for setting up your hardware and software. For the performance and stability of your HP Cloud OS for Moonshot environment, you must meet the minimum recommendations.

In the following sections, we list the recommendations for memory, processors and disk space for each component when you are creating an HP Cloud OS for Moonshot environment.

**Note:** Be sure to reference the appropriate platform support matrix for each component product before you install.

- Server infrastructure for HP Cloud OS for Moonshot
- Hypervisor recommendations for HP Cloud OS for Moonshot
- Node requirements for HP Cloud OS for Moonshot
- Moonshot chassis firmware
- Operating systems supported
- Supported deployment scenario
- Included software

## Server infrastructure for HP Cloud OS for Moonshot

We recommend your Proliant server contains the following:

- Quad Core Processor
- Hard disk drive with a minimum of 500 GB of space
- Three (3) Ethernet ports
- 72 GB of memory

**Note:** For information on cartridges and workloads, consult the server website.

## Hypervisor recommendations for HP Cloud OS for Moonshot

| Hypervisor | Version |
| --- | --- |
| KVM | qemu-kvm1.0 and above |
| VMWare | ESXi 5.1 and above |

# Node requirements for HP Cloud OS for Moonshot

| Node Type | Virtual? | CPU Cores | Memory | Internal Storage | NICs | OS (incl. as part of ISO) | Virtualized Platforms Supported |
|---|---|---|---|---|---|---|---|
| Admin Node | Yes | 4 | 12 GB | 40 GB | 2 | Ubuntu Server 12.04 LTS (64-bit) | VMWare ESXi 5.1 and above KVM qemu-kvm-1.0 and above |
| Controller Node | Yes | 4 (24 for Bulk provisioning) | 32 GB | 60 GB (80 GM for bulk provisioning) | 3 | Ubuntu Server 12.04 LTS (64-bit) | VMWare ESXi 5.1 and above KVM qemu-kvm-1.0 and above |
| Baremetal Host ** | Yes | 4 (16 for bulk provisioning) | 32 GB | 60 GB (150 GB for bulk provisioning) | 3 | Ubuntu Server 12.04 LTS (64-bit) | VMWare ESXi 5.1 and above KVM qemu-kvm-1.0 and above |

**Important:** The Baremetal host's internal storage space depends on the number of nodes planned to be provisioned and the size of the images being used to provision. To calculate your internal storage needs, use the following equation:

```
Baremetal internal storage = X * N + N * 110MB + 100GB
```

Where **X** is the average image size in gigabytes, and **N** is the expected number of additional nodes.
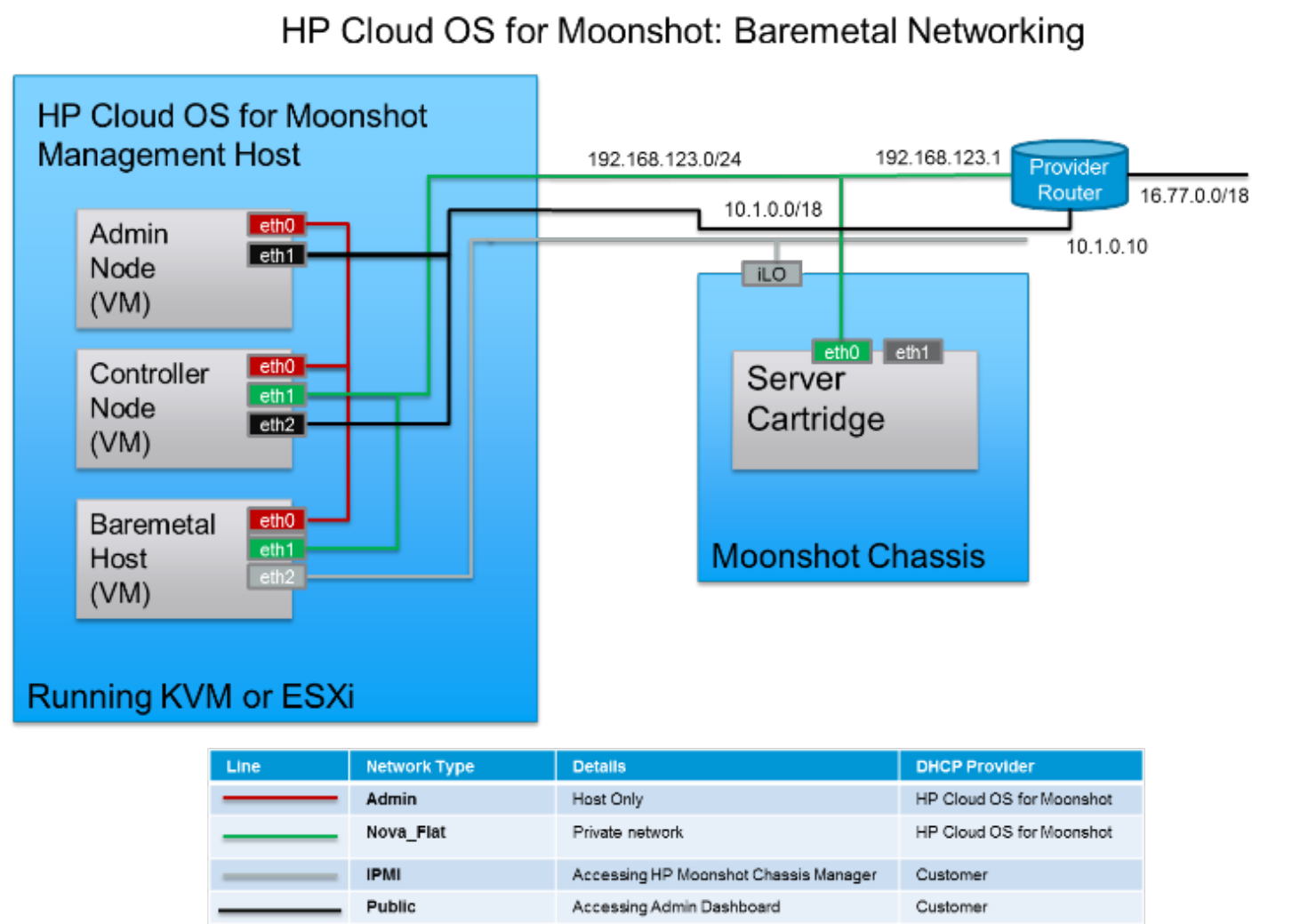
## Moonshot chassis firmware

| Software / Firmware | Version |
|---|---|
| m300 BIOS | H02 2013.11.13 and above |
| ProLiant Moonshot Cartridge BIOS | H01 2013.11.15 and above |
| iLO CM | 1.11 and above |
| Satellite FW | 2013.10.18 and above |
| Carbondale 8 | 4.3 and above |
| Switch FastPath FW | 2.0.0.13 and above |

## Operating systems supported

| Cartridge Type | OS / Version Supported |
|---|---|
| HP ProLiant Moonshot Server Cartridge | Ubuntu 12.04 LTS **OR** Redhat Enterprise Linux 6.4 |
| HP ProLiant m300 Server Cartridge | Ubuntu 13.10 **OR** Redhat Enterprise Linux 6.5 |

## Supported deployment scenario

An HP Cloud OS for Moonshot deployment includes one Admin node, one Controller node, and one Baremetal host. The following diagram depicts a simplified deployment scenario.



HP Cloud OS for Moonshot: Baremetal Networking

| Line | Network Type | Details | DHCP Provider |
|---|---|---|---|
| | Admin | Host Only | HP Cloud OS for Moonshot |
| | Nova_Flat | Private network | HP Cloud OS for Moonshot |
| | IPMI | Accessing HP Moonshot Chassis Manager | Customer |
| | Public | Accessing Admin Dashboard | Customer |

## Included software

Refer to the [HP Cloud OS for Moonshot Installation Guide](#) for a complete list of installation prerequisites and requirements, plus step-by-step instructions.

| HP Cloud OS 1.0 Platforms | Supported Versions |
| --- | --- |
| Admin and Controller Nodes | |
| Operating System | |
| Ubuntu Linux | 12.04 LTS (64-bit) + security updates |
| Java Developer Kit / Java Runtime Environment | 1.7 |
| Database | |
| CouchDB | 1.2.0 |
| PostgreSQL | 9.1.5 |
| Application Server | |
| Apache httpd | 2.3 and above |
| Tomcat | 7 |
| Web Browser | |
| Microsoft Internet Explorer | 11.0 and above |
| Mozilla Firefox | 27 and above |
| Google Chrome | 30 and above |
| Kernel | |
| OpenStack release | Grizzly 2013.1.3 |
| OpenStack Components and Plugins | |
| Cinder | Grizzly 2013.1.3 |
| Glance | Grizzly 2013.1.3 |
| Plugin: Filesystem Persistence | Grizzly 2013.1.3 |
| Keystone | Grizzly 2013.1.3 |
| Nova | Grizzly 2013.1.3 |
| Plug-in: Baremetal | Grizzly 2013.1.3 |
| Quantum (Neutron) | Grizzly 2013.1.3 |

| | |
|---|---|
| Plugin: Open vSwitch | Grizzly 2013.1.3 |
| Horizon | Grizzly 2013.1.3 |
| Python | 2.6, 2.7 |
| Base | |
| Graffiti | HP Cloud OS for Moonshot 1.0 |
| Eve | HP Cloud OS for Moonshot 1.0 |
| Plug-in: CouchDB 1.2.0 Persistence<br>Plug-in: MongoDB 2.2 Persistence | HP Cloud OS for Moonshot 1.0 |
| Focus | HP Cloud OS for Moonshot 1.0 |
| Plug-in: FileSystem Persistence | HP Cloud OS for Moonshot 1.0 |
| Skyline | HP Cloud OS for Moonshot 1.0 |
| Deployment | |
| Cosmos | HP Cloud OS for Moonshot 1.0 |
| Crowbar | 1.4 |
| Message Queue | |
| RabbitMQ | 2.7.1 and above |