Prerequisites

The following sections detail the prerequisites for installing Cisco Elastic Services Controller:

Virtual Resource Requirements

The following table lists the virtual resource requirements for Cisco Elastic Services Controller:

ESC Deployment	Number of ESC VMs	Virtual CPU per ESC VM	Virtual Memory (GB) per ESC VM	Virtual Hard Disk (GB)per ESC VM	Number of total VMs Supported	VIM
ESC Standalone	1	4	8	40	1000	All supported VIMs
ESC Active/Standby HA	2	4	8	40	2500	All supported VIMs
ESC Active/Active HA	3	8	16	40*	5000	OpenStack Only
ESC GEO HA	6	8	16	40*	5000	OpenStack Only

Note *The Active/Active HA and Geo HA deployment can accommodate up to 60 GB of hard disk while provisioning the NFVI resources.

Software Requirements

The following table lists the software requirements on OpenStack:

Requirements	Description
Supported Browsers	Google Chrome 44.x or later
OpenStack Version	Any of the following: • Train • Queens (Keystone V3) • Ocata (Keystone V2 and V3)

Preparing for the Installation

Before you perform the installation, ensure that you are prepared by reviewing this checklist:

Requirements	Your Information/ Notes
For Pre-installation Configuration	
QCOW image location	
QCOW image	
VM per Instance	
IP address	
Subnet mask	
Hostname	
Domain name	
Gateway IP address	
Admin password	

Table 1: ESC Release Package

Requirements	Your Information/ Notes
ESC.qcow2	An image file for booting up the ESC instance
bootvm.py	The installation script is compatible with python 2.7.6 and Python 3.4

Pre-requisites for Installing ESC 6.0 on OpenStack:

While glancing the ESC 6.0 image on OpenStack, make sure that the following property is configured for that image, only then the ESC 6.0 image will boot.

```
--property hw_firmware_type=uefi
```

If Cisco Virtual Infrastructure Manager (CVIM) is being used as Virtual Infrastructure platform, then UEFI is NOT SUPPORTED by CVIM 3.x versions. For more details on UEFI support on CVIM platform, please refer to the respective product user guide.

While glancing the ESC 6.0 image on CVIM 4.x platform, ensure that the following properties are configured for that image, only then the ESC 6.0 image will boot.

```
--property hw_firmware_type=uefi--property hw_machine_type=q35
```

Note   For the compute host to support UEFI, user may require to install "ovmf" package on the host. Command to install ovmf package differs based on the Host Operating System.