Prerequisites

This chapter provides information about the prerequisites for installing VTS components. It provides details about the system requirements, supported Virtual Machine Manager (VMM) and supported platforms.

System Requirements for VTC VM

The following table provides information about the minimum system requirements for the VTC virtual machine:

Requirement	Details
Disk space	48 GB
CPUs	8
Memory	16 GB
Computing Host	Certified with Cisco UCS B-series, Cisco UCS C-series Rack Servers

System Requirements for VTSR

The following table gives details about the minimum system requirements for VTSR:

Note VTSR serves two purposes. It is required to enable VTS High Availability. It also acts as the control plane for the VTF. You need to install VTSR only if you consider enabling High Availability or if you plan to have a VTF in your set up.

Requirement	Details
Disk Space	77GB
CPUs	14
Memory	48 GB RAM
Computing Host	Certified with Cisco UCS B-series, Cisco UCS C-series Rack Servers

System Requirements for VTF

The following table gives details about the minimum system requirements for the VTF virtual machine:

Requirement	Details
Disk Space	8 GB
CPUs	2
Memory	16 GB RAM
Server network interface card (NIC)	Intel DPDK-supported NIC

See OpenStack VTF vhost Mode Considerations for details about vhost Mode requirements.

Supported Virtual Machine Managers

Cisco VTS can be installed on the following supported versions of VMMs:

- OpenStack:

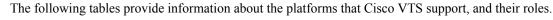|	OpenStack Liberty	OpenStack Newton
On RHEL	12.0.0; 12.0.1; 12.0.2; 12.0.3; 12.0.4; 12.0.5; 12.0.6	14.0.3
On CentOS	12.0.0; 12.0.1; 12.0.2	N/A

Prerequisites

Supported Platforms

- vCenter:

  ◦ vCenter/VMware ESXi 6.0 Update 2

  ◦ vCenter/VMware ESXi 6.5 Update 1

Supported Platforms

The following tables provide information about the platforms that Cisco VTS support, and their roles.

Note   Cisco VTS supports VXLAN overlays using the BGP EVPN control plane.

Role	Platform Supported
Top-of-rack (ToR) leaf switch	• Cisco Nexus 9300TX and 9300PX platform switches • Cisco Nexus 9332PQ and 93128TX switches • Cisco Nexus 9200 platform switches • Cisco Nexus 5600 platform switches • Cisco Nexus 9500 platform switches • Cisco Nexus 7x00 platform switches • Cisco Nexus 3100-V platform switches
Data center spine	• Cisco Nexus 9300TX and 9300PX platform switches • Cisco Nexus 9500 platform switches • Cisco Nexus 9200 platform switches • Cisco Nexus 7x00 Series switches • Cisco Nexus 5600 platform switches

Border leaf	• Cisco Nexus 9300TX and 9300PX platform switches • Cisco Nexus 9500 platform switches • Cisco Nexus 9200 platform switches • Cisco Nexus 5600 platform switches • Cisco Nexus 7x00 platform switches • Cisco Nexus 3100-V Platform switches
Data center interconnect (DCI)	• Cisco ASR 9000 Series Aggregation Services routers • Cisco Nexus 7x00 Series switches • Cisco Nexus 9300 platform switches
Fabric Extenders (FEX)	• Cisco Nexus C2248TP-E9500 • Cisco Nexus C2232PP FEX support is available for Cisco Nexus 9300, Cisco Nexus 5600, Cisco Nexus 9500 and Cisco Nexus 7x00 switches.
Hypervisor	• vCenter/VMware ESXi 6.0 Update 2 and vCenter/VMware ESXi 6.5 Update 1 • Red Hat Enterprise Linux 7.3 with KVM

Note Cisco Nexus 5672 does not interoperate with Cisco Nexus 93xx or 95xx.

The following table lists the software images supported for the different devices.

Table 1: Software Images Supported

Cisco Nexus 93xx	NX-OS Release 7.0(3)I5(1)
Cisco Nexus 95xx	NX-OS Release 7.0(3)I5(1).

Cisco Nexus 7x00	• Data center spine —NX-OS Release 8.1.(1)
	
	• Data center interconnect (DCI):
	
	   ◦ VRF Peering mode—NX-OS Release 7.3.1 and later.
	
	   ◦ Integrated DCI mode—NX-OS Release 7.3.1 and later.

Cisco Nexus 5600	NX-OS Release 7.3(0)N1(1) and later.
Cisco ASR 9000	Cisco IOS XR Software Release 5.3.2 and later.

The following table lists the VPC modes supported for the different devices.

Note If Cisco Nexus 9000 series ToR is not configured with vPC related configuration, including peer-link, also known as a multichassis etherChannel trunk (MCT), you must not configure "feature vpc" on the ToR. This may bring loopback interface used for NVE to "admin down" state.

Table 2: VPC Modes Supported

Cisco Nexus 93xx	Server VPC
Cisco Nexus 95xx	Server VPC
Cisco Nexus 5600	Server VPC, FEX VPC, Enhanced VPC
Cisco Nexus 7000	Host VPC and single-homed host in port channel mode.

Supported Browsers

Cisco VTS supports the following browsers:

- Mozilla Firefox, version 47 and later.
- Google Chrome