Server	vMotion Network IP Addresses (configured using the post_install script)
Server 2	
Server 3	
Subnet mask	
Gateway	

Port Requirements



Important

Ensure that the following port requirements are met in addition to the prerequistes listed for Intersight Connectivity.

If your network is behind a firewall, in addition to the standard port requirements, VMware recommends ports for VMware ESXi and VMware vCenter.

- CIP-M is for the cluster management IP.
- SCVM is the management IP for the controller VM.
- ESXi is the management IP for the hypervisor.

Verify that the following firewall ports are open:

Time Server

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
123	NTP/UDP	Each ESXi Node	Time Server	Bidirectional
		Each SVCM Node		
		CIMC		
		HX Data Platform Installer		

HX Data Platform Installer

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
22	SSH/TCP	HX Data Platform Installer	Each ESXi Node	Management addresses
			Each SVCM Node	Management addresses
			CIP-M	Cluster management
			CIMC	CIMC addresses
80	HTTP/TCP	HX Data Platform Installer	Each ESXi Node	Management addresses
			Each SVCM Node	Management addresses
			CIP-M	Cluster management
			CIMC	CIMC addresses
443	HTTPS/TCP	HX Data Platform Installer	Each ESXi Node	Management addresses
			Each SVCM Node	Management addresses
			CIP-M	Cluster management
			CIMC	CIMC addresses
8089	vSphere SDK/TCP	HX Data Platform Installer	Each ESXi Node	Management addresses
902	Heartbeat/UDP/TCP	HX Data Platform Installer	vCenter	
7444	ICMP	HX Data Platform	ESXi IPs	Management
		Installer	CVM IPs	addresses
9333	UDP/TCP	HX Data Platform Installer	CIP-M	Cluster management
2400	ТСР	HX Data Platform Installer	CIMC SoL	Direct Serial over LAN port that allows you to by-pass the Cisco IMC shell to provide direct access to SoL.

Mail Server

Optional for email subscription to cluster events.

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
25	SMTP/TCP	Each SVCM Node	Mail Server	Optional
		CIP-M		
		CIMC		

Monitoring

Optional for monitoring UCS infrastructure.

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
161	SNMP Poll/UDP	Monitoring Server	CIMC	Optional
162	SNMP Trap/UDP	CIMC	Monitoring Server	Optional

DNS Server

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
53 (external lookups)	DNS/TCP/UDP	Each ESXi Node	DNS	Management addresses
		Each SVCM Node	DNS	Management addresses
		CIP-M	DNS	Cluster management
		Each CIMC Address	DNS	

vCenter

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
80	HTTP/TCP	vCenter	Each SCVM Node CIP-M	Bidirectional
443	HTTPS (Plug-in)/TCP	vCenter	Each ESXi Node Each SVCM Node CIP-M	Bidirectional

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
7444	HTTPS (VC SSO)/TCP	vCenter	Each ESXi Node Each SVCM Node CIP-M	Bidirectional
9443	HTTPS (Plug-in)/TCP	vCenter	Each ESXi Node Each SVCM Node CIP-M	Bidirectional
5989	CIM Server/TCP	vCenter	Each ESXi Node	
902	Heartbeat/TCP/UDP	vCenter	HX Data Platform Installer ESXi servers	This port must be accessible from each host. Installation will result in errors if the port is not open from the HX Installer to the ESXi hosts.

User

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
22 SSH/TCP	SSH/TCP	User	Each ESXi Node	Management addresses
		Each SVCM Node	Management addresses	
			CIP-M	Cluster management
			HX Data Platform Installer	
		Each CIMC Address	Each CIMC Address	
		vCenter		
			SSO Server	

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
80	HTTP/TCP	User	Each SVCM Node	Management addresses
			CIP-M	Cluster management
			CIMC	
			HX Data Platform Installer	
			vCenter	
443	HTTPS/TCP	User	Each SVCM Node	
			CIP-M	
			Each CIMC Address	Each CIMC Address
			HX Data Platform Installer	
			vCenter	
7444	HTTPS (SSO)/TCP	User	vCenter	
			SSO Server	
9443	HTTPS (Plug-in)/TCP	User	vCenter	

SSO Server

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
7444	HTTPS (SSO)/TCP	SSO Server	Each ESXi Node	Bidirectional
			Each SCVM Node	
			CIP-M	

Replication

Required only when configuring native HX asynchronous cluster to cluster replication.

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
9338	Data Services Manager Peer/TCP	Each CVM Node	Each CVM Node	Bidirectional, include cluster management IP addresses

Port Number	Service/Protocol	Source	Port Destinations	Essential Information
9339	Data Services Manager/TCP	Each CVM Node	Each CVM Node	Bidirectional, include cluster management IP addresses
3049	Replication for CVM/TCP	Each CVM Node	Each CVM Node	Bidirectional, include cluster management IP addresses
4049	Cluster Map/TCP	Each CVM Node	Each CVM Node	Bidirectional, include cluster management IP addresses
4059	NR NFS/TCP	Each CVM Node	Each CVM Node	Bidirectional, include cluster management IP addresses
9098	Replication Service	Each CVM Node	Each CVM Node	Bidirectional, include cluster management IP addresses
8889	NR Master for Coordination/TCP	Each CVM Node	Each CVM Node	Bidirectional, include cluster management IP addresses
9350	Hypervisor Service/TCP	Each CVM Node	Each CVM Node	Bidirectional, include cluster management IP addresses
443	HTTPS/TCP	Each CVM Node	Each CVM Node	Bidirectional, include cluster management IP addresses



Tip

If you do not have standard configurations and need different port settings, refer to Table C-5 Port Literal Values for customizing your environment.

Hypervisor Credentials

root username	root	