

VMware Ports and Protocols

September 24, 2019

Product	Version	Source	Destination	Ports	Protocols	Purpose	Service Description	Classification
VMware HCX	HCX Service	HCX Manager (Connector/Initiator)	HCX SGW	9443	TCP	OSAM Service Management	HCX Service Appliance Configuration and Control	Within the HCX Site
VMware HCX	HCX Service	HCX Manager (SDDC/Cloud)	HCX SDR	9443	TCP	OSAM Service Management	HCX Service Appliance Configuration and Control	Within the HCX Site
VMware HCX	HCX Service	HCX Sentinel Agent on Virtual Machine	HCX-SGW	443	TCP	OSAM Data Transfer	HCX Sentinel Agent Virtual Machine Data Transfer	Within the HCX Site
VMware HCX	HCX Service	HCX-SGW	HCX-WAN-IX (Initiator)	45000 to 44600	TCP	OSAM Data Transfer	Virtual Machine Data Transfer	Within the HCX Site
VMware HCX	HCX Service	HCX-SDR	HCX-WAN-IX (Receiver)	45000 to 44600	TCP	OSAM Data Transfer	Virtual Machine Data Transfer	Within the HCX Site
VMware HCX	HCX Service	vRealize Operations Manager	HCX Manager	443	TCP	Monitoring HCX in vRealize Operations Manager	Collection of HCX metrics for vRealize Operations.	HCX Integration with vRealize Operations
VMware HCX	HCX Service	HCX Cloud Manager	AMQP/RabbitMQ Broker	5672	TCP	HCX with vCloud Director Messaging	Advanced Message Queue Protocol (Additional requirement at the Destination with vCloud Director-based installations)	Within the HCX Site
VMware HCX	HCX Service	HCX Cloud Manager	vCloud Director	443	TCP	HCX with vCloud Director Management	vCloud Director API (Additional requirement at the Destination with vCloud	Within the HCX Site

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VMware HCX	HCX Service	ESXi Management or Replication Network	HCX-WAN-IX	31031, 44046	TCP	HCX Migration and DR Services	Director-based HCX Bulk Migration / Disaster Recovery	Within the HCX Site
VMware HCX	HCX Service	ESXi Cluster Management Network	HCX-WAN-IX	902	TCP	HCX Migration Services	HCX Cold Migration (bidirectional)	Within the HCX Site
VMware HCX	HCX Service	HCX-WAN-IX	ESXi Cluster Management Network	902	TCP	HCX Migration Services	HCX Cold Migration (bidirectional)	Within the HCX Site
VMware HCX	HCX Service	ESXi Cluster vMotion Network	HCX-WAN-IX	8000	TCP	HCX Migration Services	HCX vMotion Protocol	Within the HCX Site
VMware HCX	HCX Service	HCX-WAN-IX	ESXi Cluster vMotion Network	8000	TCP	HCX Migration Services	HCX vMotion Protocol	Within the HCX Site
VMware HCX	HCX Service	HCX-WAN-IX	ESXi Cluster Management Network	80	TCP	HCX Migration Services	ESX Authentication	Within the HCX Site
VMware HCX	HCX Service	HCX-WAN-IX	vCenter Server	902	UDP	HCX Migration Services	HCX vMotion Control	Within the HCX Site
VMware HCX	HCX Service	vCenter Server	HCX Manager	443	TCP	HCX Management	HCX HTTPS	Within the HCX Site
VMware HCX	HCX Service	vCenter Server	HCX-WAN-IX	443	TCP	HCX Migration Services	Control traffic for HCX vMotion migration operations.	Within the HCX Site
VMware HCX	HCX Service	HCX-WAN-IX	Syslog Server	514	TCP/UDP	Common Infrastructure Management	Syslog Originator to Syslog Collector	Within the HCX Site
VMware HCX	HCX Service	HCX Manager	Syslog Server	514	TCP/UDP	Common Infrastructure Management	Syslog Originator to Syslog Collector	Within the HCX Site

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VMware HCX	HCX Service	HCX Manager	NTP Server	123	TCP	Common Infrastructure Management	Time Synchronization	Within the HCX Site
VMware HCX	HCX Service	HCX Manager	DNS Server	53	TCP/UDP	Common Infrastructure Management	Name Resolution	Within the HCX Site
VMware HCX	HCX Service	HCX Manager	ESXi Cluster Management Network	902	TCP	HCX Service Mesh Deployment	OVF Import / Service Appliance Deployment	Within the HCX Site
VMware HCX	HCX Service	HCX Manager	ESXi Cluster Management Network	443	TCP	HCX Service Mesh Deployment	OVF Import / Service Appliance Deployment	Within the HCX Site
VMware HCX	HCX Service	HCX Manager	ESXi Cluster Management Network	80	TCP	HCX Service Mesh Deployment	OVF Import / Service Appliance Deployment	Within the HCX Site
VMware HCX	HCX Service	HCX Manager	NSX Manager	443	TCP	HCX Integration with NSX	NSX API. Optional at the Source (if NSX networks will not be extended). Required at the Destination (SDDC).	Within the HCX Site
VMware HCX	HCX Service	HCX Manager	vCenter Server	7444	TCP	HCX Integration with vSphere	vSphere 5.0 SSO, Lookup Service	Within the HCX Site
VMware HCX	HCX Service	HCX Manager	vCenter Server	9443	TCP	HCX Integration with vSphere	Web-client/Plug-in	Within the HCX Site
VMware HCX	HCX Service	HCX Manager	vCenter Server	443	TCP	HCX Integration with vSphere	vSphere API, vSphere 6.0+ SSO Lookup	Within the HCX Site

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VMware HCX	HCX Service	HCX Manager	HCX-WAN-IX, HCX-NET-Ext	9443	TCP	HCX Internal Control	HCX Internal Control	Within the HCX Site
VMware HCX	HCX Service	HCX Manager	HCX-WAN-IX	8123	TCP	HCX Bulk Migration Control	HCX Bulk Migration Control	Within the HCX Site
VMware HCX	HCX Service	HCX Manager	HCX-WAN-IX	443	TCP	HCX vMotion Service	HCX vMotion Control	Within the HCX Site
VMware HCX	HCX Service	HCX Operator	HCX Manager	9443	TCP	HCX Appliance Management Interface	Activate and Register vCenter Server and Management Systems.	Within the HCX Site
VMware HCX	HCX Service	HCX Operator	HCX Manager	443	TCP	HCX Service UI	Configure and Manage HCX Services	Within the HCX Site
VMware HCX	HCX Service	HCX Operator	HCX Manager	22	TCP	SSH	Secure shell connection is used to launch the HCX Central CLI	Within the HCX Site
VMware HCX	HCX Service	HCX-NET-EXT (Initiator)	HCX-NET-EXT (Receiver)	4500	UDP	HCX WAN Transport Suite B Cryptography; IKEv2	The NET-EXT transport path is used when virtual machines in the source network communicate with virtual machines in the HCX Extended network.	HCX to HCX Connections
VMware HCX	HCX Service	HCX-WAN-IX (Initiator)	HCX-WAN-IX (Receiver)	4500	UDP	HCX WAN Transport Suite B Cryptography; IKEv2	The IX transport path carries HCX migration and DR traffic.	HCX to HCX Connections

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VMware HCX	HCX Service	HCX Manager (Connector/Initiator)	HCX Manager (SDDC/Cloud)	443	TCP	HCX Multi-Site Management	Site Pairing and ongoing authentication and management of HCX service jobs coordinated across the paired environments.	HCX to HCX Connections
VMware HCX	HCX Service	All HCX Managers	hybridity-depot.vmware.com	443	TCP	Access to published HCX updates.	Activation and service updates	Outbound Connections to HCX SaaS Systems
VMware HCX	HCX Service	All HCX Managers	connect.hcx.vmware.com	443	TCP	Activation and entitlement.	Connections initiated from every HCX Manager system for activation, publishing system updates, and enhanced support.	Outbound Connections to HCX SaaS Systems