VMware Ports and Protocols

December 31, 2019

Product	Version	Source	Destination	Ports	Protocols	Purpose	Service Description	Classification
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRB	22	TCP	Optional. Access for SSH sessions	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vCenter	80	TCP	Optional. Redirects to 443	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	111	TCP, UDP	RPC	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRA DEM-O vRA DEM-W	443	TCP	Access to the vRealize Automation console and API calls	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRA vCenter Agent	443	TCP	Access for machines to download and grant agent and software bootstrap agent	-	-
vRealize Automation	7.4, 7.5, 7.6	vRA DEM-O vRA DEM-W	vRealize Automation	5480	TCP	Access to the virtual appliance Web management interface	-	-
vRealize Automation	7.4, 7.5, 7.6	vRA IaaS vRA vCenter Agent	vRealize Automation	5480	TCP	Used by the Management Agent and for communication with the vRealize Automation Appliance	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	5488, 5489	TCP	Internally used by the vRealize Automation appliance for updates	-	-

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vRealize Automation	7.4, 7.5, 7.6	-	-	4369, 25672, 5671, 5672	TCP	RabbitMQ messaging	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRealize Orchestrator	8230, 8280, 8281	TCP	Internal vRealize Orchestrator instance	-	-
vRealize Automation	7.4, 7.5, 7.6	Client browser	vRealize Automation	8444, 8082	TCP	Console proxy communication for vSphere Remote console connections	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	Mail Server	25, 587	TCP, UDP	SMTP for sending outbound notification emails	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	DNS	53	TCP, UDP	DNS	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	67, 68, 546, 547	TCP, UDP	DHCP	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vCenter	80	TCP	Optional. For fetching software updates. Updates can be downloaded separately and applied.	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	8484	TCP	Haproxy for Xenon	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	8090	TCP	vrhb	-	-

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vRealize Automation	7.4, 7.5, 7.6	-	-	40793, 5701, 8005	TCP	vCO app server	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	5433	TCP	Haproxy for postgresql	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	9200, 9300	TCP	Elastic Search	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	VIDM	6443, 8080, 8443, 40002, 40003	TCP	VIDM horizon workspace service	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vCenter Orchestrator Config Server	8105, 8238, 50676, 8282	TCP	vCO Configuration server	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation IaaS	MSSQL	1433	TCP	MSSQL	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRealize Orchestrator	8281	TCP	Optional. For communicating with an external vRealize Orchestrator instance	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRA DB	5432	TCP, UDP	Optional. For communicating with an Appliance Database	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	5050	TCP	Optional. For communicating with vRealize Business	-	-

Product	Version	Source	Destination	Ports	Protocols	Purpose	Service Description	Classification
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	ESXi	902	TCP	ESXi network file copy operations and Vmware Remote Console connections	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vCenter Agent	443	TCP	Communication with the software bootsrap agent over HTTPS	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRA Iass	443	TCP	Communication with IaaS Manager Service and infrastucture endpoint hosts over HTTPS	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	NTP	123	TCP, UDP	Optional. For connecting directly to NTP instead of using host time	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	Mail Server	143, 993	TCP, UDP	IMAP for receiving inbound notification emails	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	Mail Server	110, 995	TCP, UDP	POP for receiving inbound notification emails	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vCenter	80	TCP	Optional. For fetching software updates. Updates can be downloaded	-	-

Product	Version	Source	Destination	Ports	Protocols	Purpose	Service Description	Classification
						separately and applied.		
vRealize Automation	7.4, 7.5, 7.6	-	-	67, 68, 546, 547	TCP, UDP	DHCP	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	DNS	53	TCP, UDP	DNS	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	Mail Server	25, 587	TCP, UDP	SMTP for sending outbound notification emails	-	-
vRealize Automation	7.4, 7.5, 7.6	Client browser	vRealize Automation	8444, 8082	TCP	Console proxy communication for vSphere Remote console connections	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRealize Orchestrator	8230, 8280, 8281	TCP	Internal vRealize Orchestrator instance	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	4369, 25672, 5671, 5672	TCP	RabbitMQ messaging	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	5488, 5489	TCP	Internally used by the vRealize Automation appliance for updates	-	-
vRealize Automation	7.4, 7.5, 7.6	vRA IaaS vRA vCenter Agent	vRealize Automation	5480	TCP	Used by the Management Agent and for communication	-	-

Product	Version	Source	Destination	Ports	Protocols	Purpose	Service Description	Classification
						with the vRealize Automation Appliance		
vRealize Automation	7.4, 7.5, 7.6	vRA DEM-O vRA DEM-W	vRealize Automation	5480	TCP	Access to the virtual appliance Web management interface	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRA vCenter Agent	443	TCP	Access for machines to download and grant agent and software bootstrap agent	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRA DEM-O vRA DEM-W	443	TCP	Access to the vRealize Automation console and API calls	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	111	TCP, UDP	RPC	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vCenter	80	TCP	Optional. Redirects to 443	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRB	22	TCP	Optional. Access for SSH sessions	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	8484	TCP	Haproxy for Xenon	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	8090	TCP	vrhb	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	40793, 5701, 8005	TCP	vCO app server	-	-

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vRealize Automation	7.4, 7.5, 7.6	-	-	5433	TCP	Haproxy for postgresql	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	9200, 9300	TCP	Elastic Search	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	VIDM	6443, 8080, 8443, 40002, 40003	TCP	VIDM horizon workspace service	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vCenter Orchestrator Config Server	8105, 8238, 50676, 8282	TCP	vCO Configuration server	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation IaaS	MSSQL	1433	TCP	MSSQL	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRealize Orchestrator	8281	TCP	Optional. For communicating with an external vRealize Orchestrator instance	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRA DB	5432	TCP, UDP	Optional. For communicating with an Appliance Database	-	-
vRealize Automation	7.4, 7.5, 7.6	-	-	5050	TCP	Optional. For communicating with vRealize Business	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	ESXi	902	TCP	ESXi network file copy operations and Vmware Remote Console	-	-

Product	Version	Source	Destination	Ports	Protocols	Purpose	Service Description	Classification
						connections		
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vCenter Agent	443	TCP	Communication with the software bootsrap agent over HTTPS	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	vRA Iass	443	TCP	Communication with IaaS Manager Service and infrastucture endpoint hosts over HTTPS	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	NTP	123	TCP, UDP	Optional. For connecting directly to NTP instead of using host time	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	Mail Server	143, 993	TCP, UDP	IMAP for receiving inbound notification emails	-	-
vRealize Automation	7.4, 7.5, 7.6	vRealize Automation	Mail Server	110, 995	TCP, UDP	POP for receiving inbound notification emails	-	-
vRealize Automation	8.0	vRealize Automation	VMWare Identity Manager	443	TCP	Component Communication	-	Direct Access Only
vRealize Automation	8.0	vRealize Automation	vRealize Lifecycle Manager	443	TCP	Component Communication	-	-
vRealize Automation	8.0	vRealize Automation	vRealize Automation	8008	TCP	Health Monitor	-	Direct Access Only

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vRealize Automation	8.0	Vmware Identity Manager	vRealize Automation	22	TCP	Access for SSH sessions	-	-
vRealize Automation	8.0	User	vRealize Lifecycle Manager	443	TCP	Communication	-	-
vRealize Automation	8.0	User	VMWare Identity Manager	443	TCP	Communication	-	Direct Access Only
vRealize Automation	8.0	User	vRealize Automation	443	TCP	Communication	-	Direct Access Only
vRealize Automation	8.0	vRealize Lifecycle Manager	VMWare Identity Manager	22	TCP	Access for SSH sessions	-	-
vRealize Automation	8.0	vRealize Lifecycle Manager	vRealize Automation	22	TCP	Access for SSH sessions	-	-
vRealize Automation	8.0	vRealize Automation	vRealize Automation	10250	TCP	Intra-cluster communication	-	-
vRealize Automation	8.0	vRealize Automation	vRealize Automation	6443	TCP	Intra-cluster communication	-	-
vRealize Automation	8.0	vRealize Automation	vRealize Automation	8285	UDP	Intra-cluster communication	-	-
vRealize Automation	8.0	vRealize Automation	vRealize Automation	2379	TCP	Intra-cluster communication	-	-
vRealize Automation	8.0	vRealize Automation	vRealize Automation	2380	TCP	Intra-cluster communication	-	-
vRealize Automation	8.0	vRealize Automation	vRealize Automation	500	UDP	Intra-cluster communication	-	-
vRealize Automation	8.0	vRealize Automation	vRealize Automation	4500	UDP	Intra-cluster communication	-	-