



Protocol Ports Used by Avi Vantage for Management Communication

Avi Technical Reference (v17.2)

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Overview

The Avi Controller and Avi Service Engines use the following ports for management. The firewall should allow traffic for these ports.

Traffic Source	Traffic Destination	Ports To Allow
Avi Controller	Avi Controller	TCP 22 (SSH)
		TCP 443 (HTTPS)
		TCP 8443 (HTTPS)
		TCP 5098 (SSH) <i>(if controller is a docker container, SSH is on port 5098)</i>
	External Entities	<i>See sections below the table.</i>
	Service Engine	Not Required
Avi Service Engine	Avi Controller	TCP 22 (SSH)
		TCP 8443 (HTTPS)
		UDP 123 (NTP)
		TCP 5098 (SSH) <i>(if controller is a docker container, SSH is on port 5098)</i>
External Network Services	Avi Controller	TCP 22 (SSH)
		TCP 80 (HTTP) <i>(optional)</i>
		TCP 443 (HTTPS)
		TCP 5054 (CLI Server) <i>(if using the optional CLI shell for remote management access)</i>
		UDP 161 (SNMP agent listens to this port)

Notes:

- You do not have to open any firewall port from Controller to SE.
- The source IP comes from the Avi Controller IP and not from the cluster IP, even if the cluster IP is configured.
- The secure channel on port 22 (or 5098 in container environments) is used for communication between Avi components for configuration sync, metrics and logs transfer, heartbeats and other management processes.
- 5098 port on the container side is not supported in the OpenStack mode.

For more details on the system portal 8443 and port 22 usage, refer to [Avi Controller to SE Communication](#).

Ports Used by Controller for Network Services

The Controller may send traffic to the following ports as part of network operation. The firewall also should allow traffic from the Controller to these ports.

Application	Protocol	Port Number
SMTP	TCP	25
DNS	UDP	53
NTP	UDP	123
SNMP traps	UDP	162
LDAP	TCP or UDP	389
syslog	UDP	514
LDAPS	TCP or UDP	636

Protocols / Ports Used by Cloud Orchestrators

OpenStack

Some or all of the following ports may be required:

For	Protocol	Port Number
Keystone	TCP	5000 35357
Galance	TCP	9292
Nova	TCP	8774
Neutron	TCP	9696
Heat (optional; used for autoscaling back-end members)	TCP	8004

VMware vCenter

- Controller-to-ESXi hosts: port 443

OpenShift Master

- Port 8443

Kubernetes Master

- Port 8080 for unauthenticated masters

Mesos or DC/OS Masters

For	Port Number
Masters	Port 5050
Unauthenticated Marathon Services	Port 80

Ports Used by Container Cluster Nodes

OpenShift

- Port 22

Kubernetes Minions

- Port 22

Mesos Nodes

- Port 22