



# OpenStack Support in Avi Vantage

Avi Technical Reference (v20.1)

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## Overview

OpenStack has become the de facto standard for open source cloud orchestration because of its openly designed, collaboratively developed architecture by a vast community. OpenStack provides Infrastructure as a Service (IaaS) for deploying scalable cloud infrastructure. Furthermore, OpenStack allows the user to program and automate infrastructure through REST APIs.

## Cloud Application Delivery Platform for OpenStack

Avi Vantage integrates with OpenStack infrastructure components to provide centralized automation, monitoring, and management of application discovery and delivery. Avi Vantage integrates with OpenStack services like Keystone, Glance, Nova, Neutron, and Heat. Avi Vantage integrates with OpenStack to offers several benefits like: \* Accelerated OpenStack adoption \* Quality end-user experience \* On-demand autoscaling of application performance \* 50% total cost of ownership (TCO) savings \* Faster application rollout and problem resolution

The following table provides a comprehensive list of links to documentation for OpenStack integration with Avi Vantage:

[Avi Vantage Platform Reference Architecture for OpenStack](#)

[Installing Avi Vantage for Openstack](#)

[Installing Avi Vantage into a No-Access OpenStack Cloud](#)

[Installing Avi Plugins Kolla Ansible Based Deployment](#)

[Creating Service Engine using Heat-Templates in No Access OpenStack Cloud](#)

[Anti-affinity for Service Engine Placement](#)

[IPAM and DNS Support](#)

[Openstack Advanced Configuration Options](#)

[OpenStack Network Configuration for Avi Controller Cluster](#)

[Forcing Deletion of Virtual Service Ports in Neutron](#)

[Custom Security Groups in OpenStack and AWS Clouds](#)

[Custom Security Groups in OpenStack](#)

[Security Hardening in OpenStack and AWS Clouds](#)

[Avi Vantage Support for Multiple OpenStack Floating IPs](#)

[Further Tightening Security in OpenStack](#)

[SR-IOV with VLAN and Avi Vantage \(OpenStack No-Access\) Integration in DPDK](#)

[Keystone Authentication](#)

[Avi Heat Resource Types](#)

[IPv6 in Avi Vantage for OpenStack](#)

[OpenStack AZ Awareness](#)

[OpenStack External Networks](#)

[Reset An OpenStack Default Cloud](#)

[Avi and Juniper Contrail Integration](#)

[ECMP Support in OpenStack Contrail Environments](#)

[Integrating OpenStack full access using non Admin Privileges](#)

[How to Clean up OpenStack Tenants and User-created Objects in Avi Controller](#)

[How to Spin Up an Avi SE in a Specific Tenant in No Orchestrator Cloud](#)

[Is an Avi Controller restart required to pick up a new token from Keystone?](#)

[Setting a Property for Newly Created Service Engine Group](#)

[Red Hat Technologies](#)

[Note: Navigate to the Certifications tab](#)

[Avi Heat Plugin](#)

**Reference Architecture**

**Installation Guides**

**Deployment Guides**

**Configuration Guides**

**User Guides**

**Integration Documents**

**Troubleshooting**

**Certification Documents**

**Downloads**

## Related References

[Avi Heat Releases](#)

[Avi Heat Examples](#)