



# OpenStack Support in Avi Vantage

Avi Technical Reference (v18.1)

Copyright © 2020

---

# OpenStack Support in Avi Vantage

[view online](#)

## 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, Neutron LBaaS v2, Horizon, and Heat. Avi Vantage integrates with OpenStack to offer 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](#)

[Creating Service Engine using Heat-Templates in no access OpenStack Cloud](#)

[Avi LBaaS Installation Steps for Contrail](#)

[Deployment of Avi Vantage in Nuage Networks](#)

[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](#)

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

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

[Avi Heat Resource Types](#)

[IPv6 in Avi Vantage for OpenStack](#)

[OpenStack AZ Awareness](#)

[OpenStack External Networks](#)

[Reset An OpenStack Default Cloud](#)

[Avi and Nuage Integration](#)

[Avi and Juniper Contrail Integration](#)

[ECMP Support in OpenStack Contrail Environments](#)

[Red Hat Technologies](#)

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

[Avi Heat Plugin](#)

[Horizon Dashboard](#)

[LBaaS v2](#)

## Related References

[Avi Heat Releases](#)

[Avi Heat Examples](#)

[Avi Dashboard](#)

## Reference Architecture

### Installation Guides

### Deployment Guides

### Configuration Guides

### User Guides

### Integration Documents

### Certification Documents

### Downloads