



# Compatibility Guide for AKO

Avi Technical Reference (v21.1)

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## Overview

The Avi Vantage platform integrates with Kubernetes/OpenShift using the operator called Avi Kubernetes Operator (AKO). This document outlines the compatibility and features supported by AKO in different environments.

## Support for Kubernetes/ Orchestrators

The AKO version 1.3.1 support for Kubernetes/Orchestrators is as below:

AKO Release	Versions Supported
Kubernetes Support	Versions 1.16, 1.17, 1.18, 1.19 (tolerance support)
OpenShift Support	Versions : 4.3, 4.4, 4.5
TKGm	Versions 1.2, 1.3
TKGs	Versions : vSphere 7.0 U2

## Support for Avi Ecosystems and CNI

AKO supports the following CNI: \* Calico \* Antrea \* OpenShift SDN \* Flannel

## Public Cloud Support and Pod Reachability

Container/ Platform/ IaaS Provider	vCenter (VDS)	VCenter(NSX-T)with No-Access cloud	Azure	GCP	AWS	Comments
Standalone Kubernetes	Cluster IP, nodeport	Cluster IP, nodeport	Cluster IP, nodeport	Cluster IP, nodeport	Node Port	
OpenShift	Cluster IP, nodeport	Cluster IP, nodeport	Cluster IP, nodeport	Not supported	Node Port	
Managed Kubernetes	Cluster IP	NA	Cluster IP	Cluster IP	Cluster IP	Routeable Pods
TKGm	Cluster IP, Nodeport	Not Supported	Nodeport	NA	Node Port	

## Avi Controller Version Support for AKO

AKO Release (s)	Avi Controller Versions Supported
0.9	18.2.6 - 18.2.10
1.1	18.2.6 - 18.2.10
1.2	18.2.10, 20.1.2 (minimum requirement)
1.3	18.2.10, 20.1.2 (minimum requirement)

## Cloud Support

- In ClusterIP Mode: GCP, Azure, vCenter
- In Nodeport Mode: AWS

## Managed Kubernetes Support

- Google Kubernetes Engine (GKE)
- Azure Kubernetes Service (AKS)
- Amazon Elastic Container Service for Kubernetes(EKS)

## Features Not Supported in AKO Release 1.3.1

AKO version 1.3.1 does not support the following:

- OpenShift 3.x
- Avi Annotations
- Egress pod

## Caveats and Restrictions

- AKO does not support ingresses which do not have either hostname or a path defined.
- Ingresses in Kubernetes will be deployed only as Sharded L7 VSs in Avi. Dedicated VSs will not be supported for Ingresses.
- Services of type:LoadBalancer will only be deployed as dedicated L4 virtual services in Avi
- Change of Sharding scheme requires a restart of AKO and will be service impacting

## Document Revision History

Date	Change Summary
December 18, 2020	Published the Compatibility Guide for AKO version 1.3.1
September 16, 2020	Published the Compatibility Guide for AKO version 1.2.1
July 20, 2020	Published the Compatibility Guide for AKO version 1.2.1 (Tech Preview)