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VMware - Avi - Diligent

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Chapter 1. Document Information

This document includes the Overview of what Avi can offer to Diligent Deployment.

- Overview of Avi Vintage deployment in Vmware vSphere
  - VMware Support in Avi Vantage
  - VMware User Role for Avi Vantage
  - Avi Service Engine Group Options

1.1. This is a Draft Document based on the meeting onsite dated Nov 7th, 2019 between VMware - Avi and Diligent

Chapter 2. Originator

Remo Mattei

Solutions Architect

VMware .Inc

2.1. Owner

VMware and Diligent – Confidential. Restricted Distribution

2.2. Confidentiality

All information supplied to Diligent for the purpose of this project is to be considered Diligent confidential.

2.3. Contact Information

Table 1. VMware - Avi Contact Information

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2.4. VMware User Role for Avi Vantage (VMware vCenter 6.5)

2.4.1. Overview

Avi Vantage deployed in a VMware cloud with write access mode requires certain permissions. This article discusses setting up the required user role and permissions for Avi Vantage vCenter cloud.

Vmware User Role - Full Article

2.5. Configuration Used

2.5.1. Overview

Avi Vantage was deployed in Denver, where we enabled SSH. We reserved a block of IPs

- Avi Controller Version: 18.2.6

- Controller IP: 10.74.78.211
- NETWORK: 10.74.78.0/23
  - Reserved to Avi: 10.74.78.211 through 10.74.78.222
- Datacenter: Denver
  - Deployed on HOST: ???

2.6. Cloud Configuration

2.6.1. Overview

Avi Vantage was deployed in Denver, where we enabled SSH. We reserved a block of IPs

- VMware: Read and Write mode
- User: Juan accounts'
- Created an IPAM with the network 10.74.78.212 through 10.74.78.222
- NO DHCP on VMware side
- DHCP for SEs

2.7. Virtual Service Scaling

2.7.1. Overview

This article covers the following virtual service optimization topics:

- Scaling out a virtual service to an additional Avi Service Engine (SE)
- Scaling in a virtual service back to fewer SEs
- Migrating a virtual service from one SE to another SE
- Avi Vantage supports scaling virtual services, which distributes the virtual service workload across multiple SEs to provide increased capacity on demand, thus extending the throughput capacity of the virtual service and increasing the level of high availability.
- Scaling out a virtual service distributes that virtual service to an additional SE. By default, Avi Vantage supports a maximum of four SEs per virtual service when native load balancing of SEs is in play.In BGP environments the maximum can be increased to 32.
- Scaling in a virtual service reduces the number of SEs over which its load is distributed. A virtual service will always require a minimum of one SE.

Advanced Options - Full Article

2.8. Troubleshooting Vmware / Avi

2.8.1. Overview

Installation was simple but we had an issue where the SE would not deploy to vSphere.

Requirements

vSphere will need to have port 22 open in order for Avi Controller to deploy the Service Engine (SE)