VMware Avi Load Balancer: Plan, Configure, Troubleshoot R1

Course Code: ANS00006

Course Description

VMware Avi Load Balancer: Plan, Configure, Troubleshoot R1 is an elite, five-day technical immersion into the world's leading software-defined application delivery platform. Designed for engineers who prioritize "muscle memory," this course features an unprecedented library of 51 hands-on labs.

To provide the most realistic experience possible, **every attendee is provisioned with a private, dedicated lab environment.** This is not a shared sandbox. It allows students to explore deep infrastructure integration and full-lifecycle automation.

Delivery Method

Instructor-Led

Duration

Five Days

Course Objectives

By the end of this course, you should be able to meet the following objectives:

- Why your App needs a Load Balancer
- Controller Architecture where to, and how to install
- How to automate
- Access control
- How to upgrade

Course Outline

Module 1 Course Introduction

- Introduction and course logistics
- Lab environment overview
- Learning objectives

Module 2 Introduction to Avi

- The shift from Legacy ADCs to Software-Defined Load Balancing

Module 3 Controller Architecture

- Designing the Control Plane for high availability and scalability

Module 4 Cloud

- Integrating with vCenter, NSX and Public Cloud ecosystems

Module 5 Service Engine

- Deployment models, sizing, and Elastic HA groups

Module 6 Server Load Balancing

- Deep dive into Virtual Services, Pools and Health Monitors

Module 7 SSL

- Mastering modern encryption, certificate management

Module 8 Managing Applications at Scale

- Harnessing Metrics, Logs, Events, Alerts and Control Scripts

Module 9 GSLB

- Multi-site resilience, DNS integration, and global traffic steering

Module 10 Automation

- Exploring the REST API, SDKs, infrastructure-as-code to provide LBaaS

Module 11 Multi-Tenancy & RBAC

- Isolating workloads and securing administrative access

Module 12 VKS/Kubernetes, AKO and AMKO

- Understanding how Avi natively integrates with cloud native applications

Module 13 Upgrade

- Best practices for upgrading the control plane and data plane