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# VMware NSX Advanced Load Balancer: Troubleshooting and Operations

## Course Overview

This 3-day, hands-on training course provides you with the advanced knowledge, skills, and tools to achieve competence in operating and troubleshooting the VMware NSX® Advanced Load Balancer™ (Avi) solutions. In this course, you are introduced to several operational, management, and troubleshooting tools. You will be presented with various types of technical problems, which you will identify, analyze, and solve through a systematic process.

## Course Objectives

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

- Become familiar with NSX Advanced Load Balancer (Avi) troubleshooting tools and steps to solve the problems.
- Establish and apply a structured troubleshooting approach and methodology
- Understand built-in mechanisms available for NSX Advanced Load Balancer (Avi) monitoring
- Identify, analyze, and troubleshoot problems related to the NSX Advanced Load Balancer infrastructure, including control and data plane components
- Identify, analyze, and troubleshoot problems related to application components such as Virtual Services, Pools, and related components

## Target Audience

- Experienced system administrators or network administrators
- Network professionals who have experience working with VMware NSX Advanced Load Balancer (Avi) and are responsible for troubleshooting and operating Application Delivery Controllers solutions

## Prerequisites

This class requires completion of the following courses:

- VMware NSX Advanced Load Balancer: Install, Configure, Manage

## Course Delivery Options

- Classroom
- Live Online
- Private Training

## Product Alignment

- NSX Advanced Load Balancer 20.X

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## Course Modules

### 1 Course Introduction
- Introductions and course logistics
- Course objectives

### 2 Introduction to NSX Advanced Load Balancer
- Introduce NSX Advanced Load Balancer
- Discuss NSX Advanced Load Balancer use cases and benefits
- Explain NSX Advanced Load Balancer architecture and components
- Explain the management, control, data, and consumption planes and functions

### 3 Events and Alerts
- Describe NSX Advanced Load Balancer Events
- Describe and configure NSX Advanced Load Balancer Alerts
- Describe NSX Advanced Load Balancer monitoring capabilities leveraging SNMP, Syslog, and email

### 4 Introduction to NSX Advanced Load Balancer Troubleshooting
- Explain NSX Advanced Load Balancer troubleshooting concepts
- Describe and leverage Virtual Service Traffic Logs
- Describe and leverage Virtual Service Security Insights
- Understand and utilize Health Score concepts
- Explain and leverage application metrics and analytics
- Explain and leverage packet capture and CLI utilities for application troubleshooting
- Leverage UI, CLI, and useful log files to perform control plane troubleshooting

### 5 Infrastructure Troubleshooting
- Describe and perform general VMware Cloud Connector troubleshooting
- Describe and analyze VMware Cloud Connector state
- Leverage case studies to troubleshoot VMware Cloud Connector

- Describe and troubleshoot NSX-T Cloud Connector integration
- Leverage case studies to troubleshoot NSX-T Cloud Connector
- Describe and troubleshoot Linux Server Cloud Connector integration
- Describe and troubleshoot OpenStack Cloud Connector integration
- Leverage case studies to troubleshoot OpenStack Cloud Connector
- Describe and troubleshoot AWS and Azure Cloud Connector integrations

### 6 Troubleshooting NSX Advanced Load Balancer Service Engines and Advanced Troubleshooting
- Explain general Service Engine infrastructure
- Explain and leverage analytics, health score, and metrics for Service Engine troubleshooting
- Explain and leverage Events and Alerts for Service Engine troubleshooting
- Leverage CLI for accessing Service Engine
- Analyze Service Engine logs offline with Tech Support utility and collecting core dumps
- Leverage CLI and useful log files for Service Engine Data Plane troubleshooting
- Leverage CLI to capture packets for advanced datapath analysis

### 7 Monitoring NSX Advanced Load Balancer
- Explain and configure SNMP-based monitoring
- Explain and configure REST API-based monitoring
- Describe and leverage 3$^{rd}$-party integration with monitoring tools like Splunk
- Leverage 3$^{rd}$-party REST API monitoring extensions like Prometheus
- Describe and leverage VMware integrations like VMware vRealize® Network Insight™ for monitoring

## Contact

If you have questions or need help registering for this course, click here.