

VMware NSX Advanced Load Balancer: Install Configure Manage

Dieser fünftägige, rasante Kurs bietet eine umfassende Schulung zur Installation, Konfiguration und Verwaltung einer VMware NSX Advanced Load Balancer (Avi Networks)-Lösung. Zu den Funktionen gehören die gesamte Infrastruktur, virtuelle Services, Anwendungskomponenten, globaler Server-Lastausgleich, verschiedene Cloud-Konnektoren, Fehlerbehebung bei Anwendungen und Lösungsüberwachung. Praktische Übungen bieten Zugang zu einer softwaredefinierten Rechenzentrums Umgebung, um die im Kurs vorgestellten Fähigkeiten und Konzepte zu vertiefen.

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Die Teilnehmer erhalten englischsprachige Dokumente von Broadcom zum Download als pdf im Kurs.

Zielgruppe

Erfahrene Systemadministratoren und Netzwerkadministratoren

Voraussetzungen

keine

Kursziel

VMware Certified Professional - Network Virtualization

Dieser Kurs im Web



Alle tagesaktuellen Informationen und Möglichkeiten zur Bestellung finden Sie unter dem folgenden Link: www.experteach.de/go/VLBI

Vormerkung

Sie können auf unserer Website einen Platz kostenlos und unverbindlich für 7 Tage reservieren. Dies geht auch telefonisch unter 06074 4868-0.

Garantierte Kurstermine

Für Ihre Planungssicherheit bieten wir stets eine große Auswahl garantierter Kurstermine an.

Ihr Kurs maßgeschneidert

Diesen Kurs können wir für Ihr Projekt exakt an Ihre Anforderungen anpassen.

Training		Preise zzgl. MwSt.	
Termine in Deutschland	5 Tage	€ 3.995,-	
Online Training	5 Tage	€ 3.995,-	
Termin/Kursort	Kurssprache Deutsch 		
23.06.-27.06.25		27.10.-31.10.25	
23.06.-27.06.25		27.10.-31.10.25	

Stand 13.05.2025

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- Introduction 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 their respective functions

3 Virtual Services Configuration Concepts

- Explain Virtual Service components
- Explain Virtual Service types
- Explain and configure basic Virtual Service components such as Application Profiles and Network Profiles

4 Virtual Services Configuration Advanced Concepts

- Explain Virtual Service Advanced components such as Wildcard VIP, Server Name Identification (SNI), and Enhanced Virtual Hosting (EVH)
- Explain the concept of Virtual Service VIP Sharing
- Explain different authentication mechanisms used for a Virtual Service such as LDAP, SAML, JSON Web Token, and OAUTH

5 Profiles and Policies

- Explain Application Profiles and types such as L4, DNS, Syslog, HTTP, and Horizon VDI
- Explain and configure advanced application HTTP profile options
- Describe Network Profiles and types
- Explain and configure SSL profiles and Certificates
- Explain and configure HTTP, network, and DNS policies

6 Pools Configuration Concepts

- Explain Pools configuration options
- Describe the available load balancing algorithms
- Explain multiple Health monitor types
- Explain multiple Persistence profiles
- Explain and configure Pool groups

7 Modifying Application Behavior

- Design and apply application solutions by using application profiles
- Design and apply application solutions by using Network, HTTP Policies, and DataScripts
- Explain DataScript fundamentals
- Explain and use NSX Advanced Load Balancer analytics to understand application behavior
- Describe and configure Client SSL Certificate Validation
- Describe and configure Virtual Service DDoS, Rate limiting, and Throttling capabilities
- Modify Network profiles properties such as TCP connection properties
- Design and apply application solutions by using Persistence profiles

8 NSX Advanced Load Balancer Infrastructure Architecture

- Explain management, control, data, and consumption planes and functions
- Describe Control Plane Clustering and High Availability
- Describe Controller Sizing and Process Sharing
- Describe Service Engine CPU and NIC Architecture
- Explain Tenants
- Configure properties of Service Engine groups
- Explain Service Engine Group High Availability Modes
- Describe and configure Active-Standby High Availability Mode
- Explain Service Engine Placement in multiple availability zones for

Public Clouds

- Describe and configure Elastic HA High Availability Mode (Active/Active, N+M)
- Explain Service Engine Failure Detection and Self-Healing
- Describe Service Engine as a Router
- Explain Virtual Service scale out options such as Layer 2 (Native), Layer 3 (BGP), and DNS-based
- Describe how to upgrade NSX Advanced Load Balancer

9 Introduction to Cloud Connector

- Explain Cloud Connectors
- Review Cloud Connector integration modes
- List Cloud Connector types
- Review the different Service Engine Image types in different ecosystems

10 Installing, Configuring, and Managing NSX Advanced Load Balancer in No-Access Cloud

- Explain No Access Cloud concepts
- Configure No Access Cloud integration
- Explain and configure Linux Server Cloud
- Explain and configure VMware No Orchestrator
- Describe the Advanced Configuration options available in bare metal (Linux Server Cloud)

11 Installing, Configuring, and Managing NSX Advanced Load Balancer in VMware Environment: Cloud Configuration

- Introduce VMware integration options
- Explain and configure VMware Write Access Cloud Connector
- Explain NSX Advanced Load Balancer integration options in VMware NSX environment
- Explain and configure NSX Cloud Connector for Overlay and VLAN-backed segments

12 AWS Cloud Configuration

- Describe NSX Advanced Load Balancer Public Cloud integrations
- Explain different AWS components
- Explain and demonstrate AWS Public Cloud Integration
- Deploy NSX Advanced Load Balancer Controller, SEs, and Virtual Services in AWS Cloud
- Review Multi-AZ Support for Virtual Services in AWS cloud

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- Explain different GCP components
- Explain and demonstrate GCP Public Cloud Integration
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14 Azure Cloud Configuration

- Describe NSX Advanced Load Balancer Public Cloud integrations
- Explain different Azure components
- Explain and demonstrate Azure Public Cloud integration
- Deploy NSX Advanced Load Balancer Controller, SEs, and Virtual Services in Azure Cloud

15 NSX Advanced Load Balancer Enterprise with Cloud Services (Avi Pulse)

- Describe NSX Advanced Load Balancer Public Cloud Services
- Explain different features of NSX Advanced Load Balancer Cloud Services
- Registering Controller with Cloud Services

16 DNS Foundations

- Review, discuss, and explain DNS fundamentals
- Describe NSX Advanced Load Balancer DNS and IPAM providers

17 Global Server Load Balancing (GSLB)

- Introduce Global Server load balancing concepts and benefits
- Explain and configure the NSX Advanced Load Balancer infrastructure
- Explain and configure the DNS Virtual Service components
- Explain and configure GSLB Service Engine Group
- Describe and configure GSLB Sites
- Explain and configure basic GSLB Services to include pools and health monitors
- Describe GSLB Service Load Balancing algorithms
- Explain and configure Data and Control Plane-based Health Monitors
- Describe GSLB Health Monitor Proxy
- Explain GSLB Site-Cookie Persistence
- Explain the different GSLB replication methods

18 Role-Based Access Control (RBAC)

- Introduce Local Authentication in NSX Advanced Load Balancer
- Introduce Remote Authentication in NSX Advanced Load Balancer
- Review the different types of Remote Authentication
- Explain Granular RBAC using labels

19 NSX Advanced Load Balancer: Troubleshooting

- Introduce infrastructure and application troubleshooting concepts
- Describe Control Plane and Data Plane-based Troubleshooting
- Explain Application Analytics and Logs
- Describe client logs analysis
- Explain Headers troubleshooting and Packet Capture mechanism
- Describe how to use CLI for detailed data plane troubleshooting
- Explain Service Engine Logs
- Explain Health Monitors troubleshooting
- Explain BGP session troubleshooting
- Describe Control Plane Troubleshooting, Clustering, and Cloud Connector issues

20 Events and Alerts

- Describe NSX Advanced Load Balancer events
- Describe and configure NSX Advanced Load Balancer alerts
- Describe NSX Advanced Load Balancer monitoring capabilities with SNMP, Syslog, and Email

21 Introduction to NSX Advanced Load Balancer Rest API

- Introduce the NSX Advanced Load Balancer REST API interface
- Describe REST API Object Schema
- Explain and interact with REST API interface with browser and command-line utility
- Explain Swagger-based API documentation
- Review the different types of SDKs available in NSX Advanced Load Balancer
- Explain and configure VMware Write Access Cloud Connector
- Explain NSX Advanced Load Balancer integration options in VMware NSX environment
- Explain and configure NSX Cloud Connector for Overlay and VLAN-backed segments
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