

VMWARE NSX ADVANCED LOAD BALANCER: INSTALL, CONFIGURE, MANAGE





Professional

Course Duration:

5 Days

Course Overview:

This five-day VMware NSX Advanced Load Balancer: Install, Configure, Manage training course from CloudThat teaches candidates how to install, manage, and configure a VMware NSX Advanced Load Balancer (Avi Networks) solution. Candidates taking up this course can gain a deeper understanding of key NSX Advanced Load Balancer (Avi Networks) features and functionality that are offered in the NSX Advanced Load Balancer 18.2 release.

By enrolling in our VMware NSX Advanced Load Balancer: Install, Configure, Manage training program, candidates acquire the necessary knowledge and skills to clear the final exam successfully. Candidates attending our training get access to the authored curriculum and can learn through engaging and interactive sessions delivered by VMware certified in-house trainers.







Product Alignment

NSX Advanced Load Balancer 18.2

Objectives

- Describe NSX Advanced Load Balancer architecture

 Describe the NSX Advanced Load Balancer components and main functions
- Deploy and configure NSX Advanced Load Balancer infrastructure within Private or Public Clouds
- Deploy and configure NSX Advanced Load Balancer infrastructure within Private or Public Clouds leveraging Write and No Access Cloud Connectors
- Explain, deploy, and configure Service Engines
- Explain and configure Local Load Balancing constructors such as Virtual Services, Pools, Health Monitors, and related components
- Understand and modify application behavior leveraging Profiles, Policies, and DataScripts
- Configure advanced services such as Global Server Load Balancing

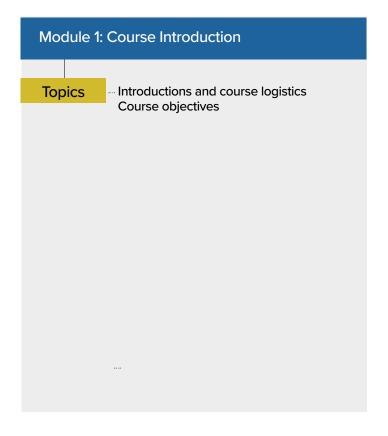
Explain the NSX Advanced Load Balancer key features and benefits

- Describe and leverage NSX Advanced Load Balancer REST API interfaces and related automation capabilities
- Describe and configure NSX Advanced Load Balancer application and infrastructure monitoring
- Gather relevant information and perform basic troubleshooting of applications leveraging built-in NSX Advanced Load Balancer tooling

Want to make a career in virtualization? Move up the corporate ladder with a list of VMware cloud certifications from CloudThat. Grab up to 30% discount on any of our 45+ VMware certification courses.

Enroll Today!

Course Outline

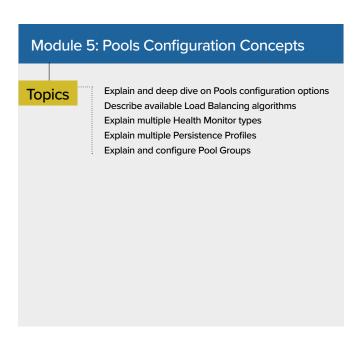


Module 2: Introduction to NSX Advanced
Load Balancer

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

Course Outline

Module 3: Virtual Services Configuration Concepts Topics Explain Virtual Service components Explain Virtual Service types Explain and configure basic Virtual Service components such as Application Profiles, Network Profiles, Pools, and Health Monitors



Module 4: Profiles and Policies

Topics

Explain and deep dive on Advanced Virtual Service creation

Explain and deep dive on Application Profiles and Types such as L4, DNS, Syslog, and HTTP Explain and configure advanced application HTTP

Profile options

Deep dive on Network Profiles and Types

Explain and configure SSL Profiles and Certificates

Explain and Configure HTTP and DNS policies

Module 6: Modifying Application Behavior

Topics

Design and apply application solutions leveraging application profiles

Design and apply application solutions leveraging Network and HTTP Policies and DataScripts Explain DataScript fundamentals

Explain and leverage NSX Advanced Load Balancer analytics to understand application behavior Describe and configure Client SSL Certificate Valida-

tion

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 leveraging Persistence Profiles

Course Outline

Module 7: NSX Advanced Load Balancer Infrastructure Architecture

Topics

Deep dive on the management, control, data, and consumption planes and functions

Describe Control Plane Clustering and High Availability

Describe Controller Process Sharding

Describe Controller Sizing

Describe Service Engine CPU and NIC Architecture Explain Tenants

Deep dive and configure properties of Service Engine Groups

Explain Service Engine Group High Availability Modes
Describe and configure Active/Standby High Availability Mode

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

Deep dive on Virtual Service scale out options, such as Layer 2 (Native), Layer 3 (BGP), and DNS-based Explain Infrastructure Upgrade process

Module 11: Install, Configure, and Manage NSX ALB in Public Clouds (AWS)

Topics

Describe NSX Advanced Load Balancer Public Cloud integrations

Explain and demonstrate AWS Public Cloud Integration

Describe Azure Public Cloud Integration

Module 8: I Introduction to Cloud Connectors

Topics

Introduce Cloud Connectors
Review Cloud Connector integration modes
Introduce Cloud Connector types

Module 9: Install, Configure, and Manage NSX ALB in No Access Clouds

Topics

Explain No Access Cloud concepts
Configure No Access Cloud integration
Explain and Configure Linux Server Cloud
Describe the Advanced Configuration options available in Bare-Metal (Linux Server Cloud)

Module 10: Install, Configure, and Manage NSX ALB in VMware environments

Topics

Introduce VMware integration options

Explain and configure VMware No Access Cloud

Connector

Explain and configure VMware Write Access Cloud

Connector

Describe VMware Write with NSX-V Access Cloud

Connector

Describe VMware NSX-T integration

Module 12: DNS Foundations

Topics

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

Course Outline

Module 13: Global Server Load Balancing

Topics

Introduce Global Server Load Balancing Concepts and

Explain and configure NSX Advanced Load Balancer infrastructure

Explain and configure 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

Module 15: Monitoring NSX Advanced Load Balancer Solution

Topics

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

Module 14: Troubleshooting

Topics

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

Leverage 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

Module 16: Introduction to NSX ALB Programmability and Automation

Topics

Introduce NSX Advanced Load Balancer REST API interface

Describe REST API Object Schema

Explain and interact with REST API interface, leverag-

ing browser and command line utility

Explain Swagger-based API documentation

Review 3rd-party automation integrations

Who Should Enroll for this Course?

Experienced system administrators or network administrators

About CloudThat

CloudThat is the first company in India to offer Cloud Training & Consulting services for mid-market & enterprise clients from across the globe. Since our inception in 2012, we have trained over 500K+ IT professionals from fortune 500 companies on technologies such cloud, Artificial Intelligence, Machine Learning, IoT, OpenStack, OpenShift, DevOps, MongoDB, Big Data and more.

Through sheer dedication and excellence in the field of cloud training, CloudThat has recently being recognized as **VMware Authorized Training Reseller**. In addition, CloudThat is a proud Microsoft Gold Partner, AWS Advanced Consulting Partner, Google Cloud Platform Partner, and Databricks Partner. Recently, we have won the Microsoft Asia Superstar Campaign for India-2021 for being a global leader in providing cloud training and consultancy services with exemplary track record.

Our Success Track-

10+ Years of Experience

500K+
Professionals trained

100+

Corporates served

200+

Projects delivered

28+

countries catered

350+

Cloud certifications

To know more about our VMware certification training, email at sales@cloudthat.com or call us at +918880002200.