

VMware NSX Advanced Load Balancer: Global Server Load Balancing Design and Deploy

Course Duration: 24 Hours

Course Code: VM-NSX

1. Course Overview

This course provides a comprehensive understanding of how to design and deploy Global Server Load Balancing (GSLB) solutions using VMware NSX Advanced Load Balancer. Participants will learn how to configure, manage, and optimize GSLB to deliver high availability, scalability, and intelligent traffic distribution across multiple data centers or cloud environments. The course is designed to build both theoretical knowledge and hands-on skills to ensure seamless delivery of applications to global users.

2. What You'll Learn?

By the end of this course, you will be able to:

- Understand the architecture and components of VMware NSX Advanced Load Balancer (Avi).
- Design and configure Global Server Load Balancing (GSLB) for enterprise applications.
- Deploy and manage GSLB services across multiple sites.
- Implement intelligent traffic distribution strategies for improved performance and redundancy.
- Monitor, troubleshoot, and optimize GSLB deployments.
- Integrate NSX Advanced Load Balancer with hybrid and multi-cloud infrastructures.

3. Target Audience

This course is ideal for:

- Network Engineers and Administrators
- Cloud Architects and Engineers
- System Administrators
- Data Center Engineers
- Professionals responsible for application delivery, high availability, and disaster recovery solutions

4. Pre-Requisites

Participants should have:

- Basic knowledge of networking concepts (TCP/IP, DNS, load balancing).
- Familiarity with VMware NSX Advanced Load Balancer or equivalent load balancing solutions.
- Understanding of data center or cloud infrastructure concepts is recommended.

5. Course Content

Module 1: Introduction to VMware NSX Advanced Load Balancer

- Overview of NSX Advanced Load Balancer (Avi)
- Architecture and components
- Key features and benefits

Module 2: Fundamentals of Global Server Load Balancing (GSLB)

- GSLB concepts and use cases
- GSLB architecture and design principles
- Traffic distribution algorithms

Module 3: GSLB Design and Deployment

- Designing GSLB solutions for enterprise environments

- Configuring GSLB services and sites
- Multi-site deployment strategies

Module 4: Intelligent Traffic Management

- Traffic steering policies
- Application and user-based traffic distribution
- High availability and disaster recovery design

Module 5: Operations and Management

- Monitoring and reporting in NSX Advanced Load Balancer
- Troubleshooting GSLB configurations
- Best practices for optimization

Module 6: Integration and Advanced Use Cases

- Hybrid and multi-cloud GSLB deployments
- Integration with VMware ecosystem
- Security considerations and compliance

Module 7: Hands-On Labs and Case Studies

- Real-world deployment scenarios
- Practical configuration exercises
- End-to-end GSLB design and testing