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

Content

1. Course Introduction

- **Introductions and Course Logistics**
- **Course Objectives**

2. Introduction to NSX Advanced Load Balancer

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

3. Virtual Services Configuration Concepts

- Explain Virtual Service components
- Explain Virtual Service types
- Configure basic virtual service components (Application Profiles, Network Profiles, Pools, and Health Monitors)

4. DNS Foundations

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

5. Global Server Load Balancing

- Introduce Global Server Load Balancing concepts and benefits
- Configure NSX Advanced Load Balancer infrastructure
- Configure DNS Virtual Service components
- Configure GSLB Service Engine Group
- Describe and configure GSLB Sites
- Configure basic GSLB Services (pools and health monitors)
- Describe GSLB Service Load Balancing algorithms
- Configure Data and Control Plane-based Health Monitors
- Describe GSLB Health Monitor Proxy

6. Global Server Load Balancing Advanced Topics

- Configure advanced GSLB service properties (different types of pool members, Host Header, and TLS SNI handling within GSLB Health Monitors)
- Describe EDNS Client Subnet
- Describe Geo-aware Global Server Load Balancing
- Design and configure Geo-aware Global Server Load Balancing

- Leverage DNS Policies to customize client experience
- Explain and configure Topology-aware Global Server Load Balancing
- Explain and configure GSLB third-party sites
- Describe GSLB Health Monitor sharding
- Describe GSLB Service Engine sizing implications

7. Troubleshooting NSX Advanced Load Balancer GSLB Solution

- Introduce infrastructure and application troubleshooting concepts
- Describe Control Plane and Data Plane-based troubleshooting
- GSLB Infrastructure troubleshooting
- GSLB Services troubleshooting
- Explain Health Monitors troubleshooting
- Geo-aware and Topology-based GSLB Services troubleshooting
- Explain Application Analytics and Logs
- Describe Client Logs analysis
- Leverage CLI for advanced data plane troubleshooting

8. Monitoring NSX Advanced Load Balancer Solution

- Describe NSX Advanced Load Balancer Events
- Configure NSX Advanced Load Balancer Alerts
- Describe monitoring capabilities leveraging SNMP, Syslog, and Email