

Nuage Networks Virtualized Network Services (VNS) – Advanced Topics



Online Course

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Course Modules

1.VNS Overview

- Software-Defined networking (SDN)
- VNS: the Nuage Networks SD-WAN solution
- VNS deployment

2.Routing Protocols on the NSG

- Configuration and verification of OSPF on the NSG access side
 - o Lab – OSPF on the NSG access side
- Configuration and verification of BGP on the NSG
 - o Lab – BGP on the NSG network side

3.NSG Underlay Border Router (NSG-UBR)

- Capabilities of the NSG-UBR
- Domain linking with the BR connection
 - o Lab – Domain linking with the BR connection
- Use case of NSG-UBR Gateway
 - o Lab – DC Connection with the NSG-UBR Gateway
- Use case of NSG-UBR Hub
 - o Lab – NSG Mesh Group with UBR Hub
- Use case of NSG-UBR DUC
 - o Lab – Inter-underlay L3 domain with the NSG-UBR DUC



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4.Domain Linking Approaches

- Domain linking with service chaining
- Port-based address translation (PAT) to the overlay
 - o Lab – PAT to the overlay
- Bi-directional network address translation (NAT)
 - o Lab – Bidirectional NAT

5.Application-Aware Routing (AAR)

- Application-Aware Routing (AAR) components
- AAR configuration and visualization
 - o Lab – AAR configuration and visualization

6.IPsec Internet Key Exchange (IKE)

- IPsec Internet Key Exchange (IKE)
 - o Lab – IPsec on the NSG using a 7750 SR as an IKE gateway

7.Virtualized network function (VNF) on the NSG

- Virtualized network function (VNF) deployment on the NSG
 - o Lab – VNF on the NSG

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