



Online Course



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Course Modules

1.VCS Overview

- Software-Defined Networking (SDN)
- SDN in datacenters
- Nuage Networks product portfolio
- Review of overlay network concepts
- Review of the Shared Infrastructure

2. Datacenter Underlay Design

- Traditional data center networking
- Leaf and spine design
- External connectivity options
- Routing protocol in the underlay
- Redundancy Zetlan Technologies

3.BGP on L3-Domain VPorts

- Using BGP in a L3-domain to learn external routes
- Configuration of BGP on a L3-domain virtual port
- Verification of BGP on the VTEP
- o Lab BGP on an overlay virtual port

4. Domain Linking in VCS

- Hub-and-spoke domain linking
- Domain linking with service chaining
- Security policies between linked domains
- PAT between overlays using floating IP addresses
- o Lab Domain Linking in VCS

5. Routing to the Underlay

- Access to external networks
- Centralized breakout
- Hub-and-spoke model
- Local breakout with and without NAT
- PAT to the underlay
- FIP to the underlay
- VRS and secondary network namespaces
- o Lab Routing to the Underlay on the VRS

6. Dual Uplinks on the VRS

- Usefulness of dual uplinks on the VRS
- Configuration of a VRS with dual uplink
- •Usage of a VRS with dual uplink
- o Lab Dual Uplinks on the VRS



7. Datacenter Gateways

- Rationale behind the use of DC GWs
- •Different models to extend L2 and L3-domains into the DC GW
- Auto discovery of the DC GW on the VSD
- •7750 DC GW provisioning methods (static, static + dynamic)
- Service chaining on the 7750 DC GW
- o Lab Datacenter Gateways

8.Policy Groups

- The concept of policy groups
- Usage restrictions on hardware-based VTEPs
- Policy group configuration
- Policy group expressions
- o Lab Policy Groups

9.Multicast in the Underlay

- The need for multicast in the underlay
- Enabling multicast in the underlay
- Carrying multicast traffic in the underlay

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10. Quality of Service

- Quality of service capabilities in VCS
- Classification of packets on ingress
- Rate limiting of traffic on ingress
- Packet marking
- o Lab VCS Quality of Service

11. 7750 SR Netconf Integration

- •Using Netconf to configure a 7750 Service Router frm the VSD
- •Extend L2 and L3 domains to a 7750 SR usd as VXLAN Gateway
- •L3 Domain Aggregation on a 7750 SR with Netconf
- o Lab Configure a 7750 SR with Netconf from the VSD

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