

Implementing ArubaOS-CX Switching



Online Course

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Implementing ArubaOS-CX Switching

Course Modules



1.Introduction to Aruba Switching

- o Switches overview
- o Architectures

2.NetEdit

- o Overview
- o Centralized configuration
- o Switch groups/templates
- o AOS-CX mobile App

3.Network Analytics Engine (NAE)

- o Overview
- o Configuration
- o Core NAE feature lab
- o sflow, local mirror, remote mirror



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4.VSX

- o VSF vs. VSX: access and Agg/core design
- o Stacking review
- o VSF and uni/multi packet forwarding
- o Stack fragments / split brain
- o VSX Overview: roles, control, data, management planes
- o VSX components (ISL,Keepalive, VSX LAG, Active Gateway etc)
- o Split Brain scenario
- o Upstream Connectivity Options (ROP single VRF, etc)
- o Upstream/Downstream unicast traffic flow
- o VSX Configuration: VSX and Active Gateway
- o VSX firmware updates

5.ACLs

- o Overview: types, components
- o MAC ACL, Standard ACL, Extended ACL,
- o Classifier-based Policies
- o Configuration: wildcard bits, logging, pacl, vacl, racl



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6.Advanced OSPF

- o Review basic OSPF
- o Multi area: setup and aggregation
- o Area-Types Stub, Totally Stub, NSSA, Totally NSSA
- o External routes
- o OSPF tuning: costs, bfd, gr, auth, vrrp, virt link

7.BGP

- o Overview: i/e bgp, as numbers
- o Best path selection
- o Configuration: route announcement
- o Route filtering to prevent transit as

8.IGMP

- o Overview
- o Querier
- o Snooping
- o Unknown multicasts

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9. Multicast Routing: PIM

- o Overview
- o PIM DM

10. 802.1X Authentication

- o Overview: roles, requirements, coa, accounting
- o Dynamic port configuration: avp, acl, qos, VLAN
- o Port-based vs. user-based: examples
- o Radius service tracking, critical VLAN

11. MAC Authentication

- o Overview: Use cases
- o Radius-based MAC Auth

12. Dynamic Segmentation

- o Leverage dynamic segmentation features
- o Configure tunneled-node on AOS-CX switches
- o Describe when and how to config PAPI enhanced security, etc.,



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13. Quality of Service

- o Overview
- o VoQ (Virtual Output Queue)
- o QOS: queueing, QOS marks, dot1p, dscp
- o Trust levels
- o QOS configuration: port, VLAN, policies
- o Interaction with user roles
- o Queue configuration
- o Rate limiters
- o LLDP-MED

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14. Additional Routing Technologies

- o VRF - Management VRF
- o PBR
- o MDNS
- o PIM SM

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15. Captive Portal Authentication

- o Overview of guest solutions
- o Built-in web auth
- o ClearPass redirect with CPPM

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