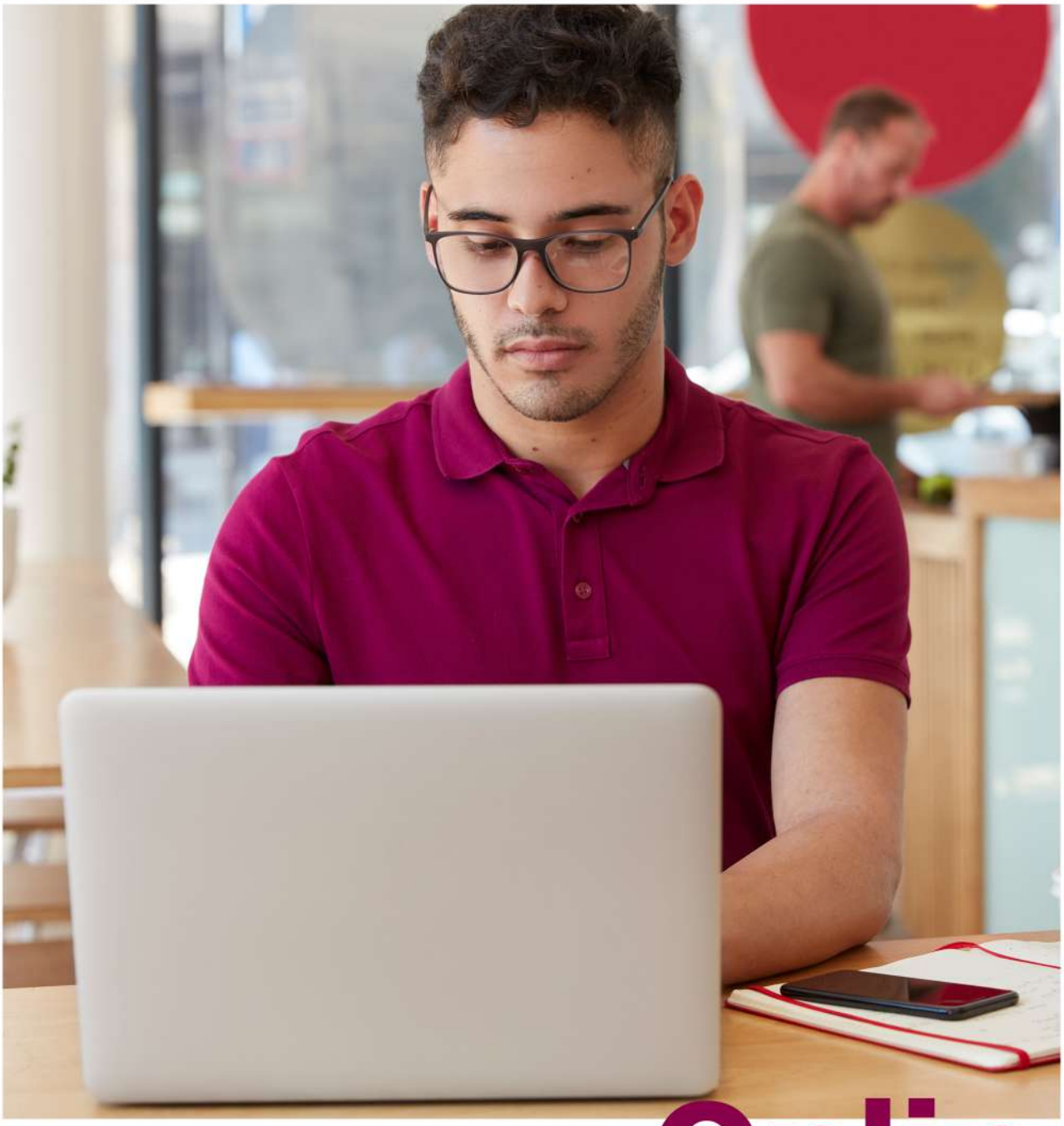
Implementing Data Center Networks

Zetlan Technologies



Online Course

ZETLAN TECHNOLOGIES
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Implementing Data Center Networks

Course Modules

1. Introduction to data center networks

- Define data center networks
- Discuss common drivers for data center networks
- Distinguish common data center network requirements
- Differentiate data center versus campus networks

2. Data center network products and technologies

- Intro HPE Aruba Networking data center products & technologies
- Compare the data center management options and advantages
- Deployment models, products, and technologies
- List & demonstrate connection high avalablty, fault tolerance

3. Data center network design

- Define requirements for data center network design
- Introduce data center network design
- Describe data center policy design
- Compare the data center management options and advantages
- Demonstrate the supported HPE Aruba Data Center Reference Architectures

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4. Switch provisioning and staging

- Switch staging options
- Manual provisioning
- ZTP provisioning
- Remote management

5. Layer 2 collapsed core

- Debate the L2 collapsed core solution and advantages
- Describe the components of the solution

6. Switch virtualization and stacking

- List HPE Aruba Networking switch virtualization & stacking optn
- The diffe betw stacking and virtualizaton & their use cases on DCN
- Describe HPE Aruba Networking VSX technology
- Explain how VSX could be deployed in a data center
- Examine the usage and benefits of VSX in a data center

8. Virtual Routing and Forwarding (VRF)

- Describe the concepts behind VRF
- Explain VRF features
- Demonstrate common use cases for VRF
- Configure and maintain an AOS-CX switch running multiple VRFs

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7. Loop prevention

- Link aggregation group (LAG) and multi-chassis LAG
- Load balancing
- Spanning tree protocols
- Redundant network links:
- Multiple Spanning Tree Protocol
- Loop protect
- Rapid Ring Protection Protocol

8. Leaf spine networks

- Debate the spine and leaf solution and advantages
- Describe the components of the solution

9. Virtual Extensible VLAN (VXLAN)

- Describe the VXLAN feature
- Describe basic VXLAN operations
- Describe the MAC learning process in a VXLAN
- Describe virtual VXLAN to physical VLAN network integration
- Explain the basic configuration of a VXLAN tunnel

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11. EVPN

- Introduce EVPN concepts and use cases
- Explain the EVPN configuration process
- Describe EVPN monitoring and troubleshooting
- Optimize the EVPN environment with ARP and ND suppression
- Describe the EVPN fabric config steps to handle multicast traffic
- Explain IPv6 EVPN overlay over an IPv4 underlay configuration

12. Aruba Fabric Composer

- Define the purpose of Aruba Fabric Composer
- Navigate menus and identify icons
- Manage network services using Guided Set Up
- Benefits of integratg Aruba Fabric Composr with VMware vSphere
- Integrate Aruba Fabric Composer with VMware products & solns
- Integrate Aruba Fabric Composer with HPE iLO to configure
- Integrate Aruba Fabric Composer with Pensando Policy Services

13. Securing the data center with the Aruba CX 10000 Switch

- Define 10K Switch features that improve network performance
- Manage network services with Aruba Fabric Composer
- Policy and network segmentation using Aruba Fabric Composer
- Utilize analytics gathered by telemetry to view network config

14. **Data center bridging (DCB)**
    - Describe DCB and IP ECN
    - Configure DCB and IP ECN
    - Describe DCB monitoring options

15. **Network Analytics Engine (NAE)**
    - Describe NAE use cases to monitor and troubleshoot the network.
    - Describe NAE agents
    - Describe NAE troubleshooting

16. **REST API**
    - Describe the need for the API
    - List the REST API features and functions
    - Demonstrate an AOS-CX REST API use case

17. **Aruba Central on Prem (COP)**
    - Describe COP
    - Explain COP use cases for DCN

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