Configuring Data Center Networks with Aruba OS CX, Rev 21.11

Course description

Course ID	0001172987
Course format, Typical duration	**Select one:**ILT – Instructor Led, 3 days VILT – Virtual Instructor Led, 3 days
Skill level	Intermediate (INT)
Delivery languages	English
Lab required	Yes

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The Configuring Data Center Networks with Aruba OS CX course provides you with the skills and knowledge to design, implement, and configure complex data center solutions based on the Aruba AOS CX Switches.
Data center networks are at a breaking point. Aruba offers a new architectural approach that provides simplified, scalable and automated connectivity for virtualized compute, storage and cloud. Data center networking requirements have evolved rapidly, with emerging technologies increasingly focused on supporting more automation and simplified operations in virtualized data centers.
Aruba data center solutions and technologies such as Virtual Switching Extension (VSX) allow the grouping Data Center switches for simpler management, but keeping its control and data planes separate for better high availability. Ethernet Virtual Private Networks (EVPN) allows the creation of modern two-layered data centers for business resilience and high availability.
This course is approximately forty percent lecture and learning activities and sixty percent lab activities

Ideal candidate for this course

This course is ideal for Aruba partners, customers and employees who have minimum of 3 years of experience implementing and designing enterprise level networks. Candidates should demonstrate an ability to understand, configure and implement modern data centers based on Aruba Switching solutions that provide a simplified, scalable and automated Ethernet fabric that connects virtualized compute, storage, and cloud services.

Suggested prerequisites

It is strongly recommended that the candidate first complete the ArubaOS-CX Switching Fundamentals, Rev. 20.21 (Course ID: 01126291) course.

Topics

- **Introduction to DCN**
  - Data Center Networking Evolution
  - Data Center Networking Design
  - AOS CX Switches Overview
  - Data Center Networking Technology

- **NetEdit**
  - Features
  - Device Discovery
  - Plans

- **Virtual Switching Extension (VSX)**
  - VSX Components and Features
  - VSX Software Upgrade
  - VSX at Data Center

- **Data Center Bridging (DCB)**
  - DCB Configuration
  - DCB Components

- **Virtual Routing and Forwarding (VRF)**
  - VRF Lite
  - VRF Use Cases
  - VRF Configuration
  - Data Center Networking

- **VXLAN**
  - VXLAN Concepts
  - Operations
  - Traffic Flow

- **EVPN**
  - Dynamic Tunneling
  - Forwarding
  - Centralized Routing

- **DCI**
  - DCI Solutions at AOS-CX
  - ERPS

- **NAE**
  - Agents
  - Scripts
  - Upgrades
  - Troubleshooting
  - Use Cases

- **Data Center Networks Design**
  - DCN Requirements
  - DCN Design
  - AOS-CX Technologies for DCN

Objectives

After you successfully complete this course, expect to be able to:

- Understand the components of the ArubaOS-CX Switching architecture.
- Describe common datacenter networking requirements.
- Describe the benefits of VSX implementation in a Data Center
- Understand, describe and configure VRF which enables a switch to run multiple routing instances in a network.
- Understand, describe and configure VXLAN functionality. VXLAN provides an alternative to the traditional VLAN concept.
- Understand, describe and configure EVPN to transport VXLAN thru the datacenter.
- Understand, describe and configure Datacenter Bridging (DCB) that is a technology that enables the consolidation of IP-based LAN traffic and block-based storage traffic onto a single converged Ethernet network. This can help to eliminate the need to build separate infrastructures for LAN systems that carry typical end-user data traffic, and SAN systems that carry storage-specific communications.
- Understand, describe and configure Ethernet Ring Protection Switching (ERPS) which enable enables ethernet ring topologies with a fast convergence.
- Describe requirements for a datacenter network design.
- Describe different datacenter deployment models.
- Understand various data center technologies and their impact on a design.

How to register

Click on this link to register for this course: https://certification-learning.hpe.com/tr/TrainingCalendar?excludePartners=false&CourseId=0001172987

Policies, fees and cancellations

Course fees may vary. Fees are established and collected by the training center that delivers the course. Cancellation fees may apply. Contact your HPE Authorized Training Partner for their respective policies.

For more information

Contact our program

Information is as of March 2021, Revision 1