Orchestrating Distributed Services with the CX 10000 Series

Category: Networking & Security | **Vendor:** HPE Aruba Networking

Duration: 16.00 hours (2 days) **13.0 CPD Hours** **Rating:** ⭐ 4.6 (5,878 reviews)

Course Information

Delivery Format: Instructor Led - Online

Course Overview

This 2-day course teaches students how the Aruba CX 10000 Switch can improve data center network (DCN) security and performance. Students will learn why the CX 10000 Switch is unique and how its placement in the DCN will dynamically change the performance and security. Students will learn how and where to install the CX 10000 Switch. Through the Aruba Fabric Composer, students will create and configure their entire network, as well as create and apply policy, including micro-segmentation. Using AMD Pensando PSM, students will understand how it integrates with Aruba Fabric Composer and the CX Switch, and they will be able to monitor switches and policy performance.

About This Course

CX 10000 Product Overview

- Understanding the Challenge
- Identifying the Solution
- Three main components of CX 10000
- Physical Product Specifications
- Product Details
- Key Attributes

Installation and Setup of Aruba Fabric Composer and AMD Pensando PSM

- Hardware Requirements
- Supported Platforms
- Aruba Fabric Composer Licensing
- PSM Deployment

- PSM User Authentication Policy
- Create PSM Users with appropriate roles
- DSS Configuration

Aruba Fabric Composer Overview and Navigation

- Data Center Networks Overview
- Aruba Fabric Composer key features and benefits
- CX Portfolio Orchestrated by Aruba Fabric Composer
- Understanding Fabrics
- Aruba Fabric Composer Navigation

- Menu bar and Icons
- Customizing Dashboard
- Configuration, Maintenance and Visualization Menu
- User Management, System Settings and Backup

Managing Network Services with Aruba Fabric Composer

- Switch Management

- Switch Actions
- Editing Switch Config
- Switch Ports
- Switch Upgrade
- NTP Configuration
- DNS Workflow and Configuration
- VSX Configuration
- Leaf & Spine

- L2 Leaf-Spine Underlay
- L3 Leaf-Spine Overlay
- Creating and Assigning VLANS
- Creating IP Interfaces
- Provisioning EVPNs

Managing Security with Aruba Fabric Composer

- Stateful versus Stateless Firewalls- What’s the difference?
- Building Policy

- Policy Building Blocks (Service Qualifiers, Applications, Endpoint Groups and Rules)
- Policy Direction
- 3rd Party Integrations

- VMWare vSphere, Nutanix, HPE SimPlivity etc…
- Aruba Fabric Composer and Pensando PSM Integration
- Virtual Routing and Forward (VRF)
- PVLANs and Micro segmentation

AMD Pensando PSM Overview and Navigation

- PSM Key Terms

- PSM Object Model
- PSM Menus and Navigation

- Dashboard
- System menu navigation
- Tenants menu navigation
- Workload navigation
- Monitoring menu navigation
- Search function
- Server Certificate
- API Capture
- Configuration Snapshots

Managing Security with AMD Pensando PSM (Brownfield)

- Firewall Policy Functionality and Configuration

- Firewall Profile
- VSX and Firewall High Availability
- Network Security Policy
- Understanding Firewall Policy Scaling Profiles
- Enable/ Disable Individual Firewalls
- Apps

Network Monitoring

- Aruba Fabric Composer

- Visualization Hosts
- Network
- Statistics Visualization
- Firewall Policy Logs
- Firewall Profiles
- AMD Pensando PSM

- Dashboard and DSS Health

- Firewall Export Policies
- Firewall Profiles
- Firewall Logs
- Alerts, Events and Audit Events
- Metric Charts

Who Should Attend

Ideal candidates are data center networking professionals such as data center network architects and engineers, server administrators, or individuals responsible for network security and compliance who want a cost-effective solution to secure their data center network while simplifying scale and growth, rapid fabric deployments, enhance visibility and control, remove bottlenecks and boost network performance.

Prerequisites & Entry Requirements

General Prerequisites:

It is highly recommended that students be familiar with data center networking principles, including but not limited to understanding zero trust and micro segmentation methodologies. The student should also consider attending the Implementing Data Center Networks (IDCN) course prior to this CX 10000 course as it provides the skills and knowledge to design, implement, and configure complex data center solutions based on AOS-CX switches.

Learning Outcomes

Upon successful completion of this course, participants will be able to:

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

- Define CX 10000 switch features that improve network performance, security and design
- Install and Deploy Aruba Fabric Composer and AMD Pensando PSM
- Operate navigation menus within Aruba Fabric Composer and AMD Pensando PSM
- Create and Manage Network using Aruba Fabric Composer
- Implement Policy and micro segmentation using Aruba Fabric Composer and AMD Pensando PSM
- Utilize analytics gathered by telemetry to view network health, configuration, alerts and create charts.

Detailed Course Outline

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Skills You Will Learn:

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Frequently Asked Questions

Q: What delivery options are available for Orchestrating Distributed Services with the CX 10000 Series?

We offer multiple delivery formats:

- Live Instructor-Led Classroom Online (Virtual/Live Online)
- Traditional Instructor-Led Classroom Training (ILT)
- On-site delivery at your offices anywhere in United Kingdom
- Private dedicated courses customized for your team

Q: How many CPD hours does this course provide?

The 2-day Orchestrating Distributed Services with the CX 10000 Series course provides up to 13.0 CPD hours of structured learning. CPD certificates can be provided upon request.

Q: What is the duration of the Orchestrating Distributed Services with the CX 10000 Series training?

The training takes place over 2 day(s), with each day lasting approximately 16.00 hours including breaks for lunch and refreshments.

Q: Do you provide corporate training for Orchestrating Distributed Services with the CX 10000 Series?

Yes, we provide corporate training, dedicated training, and closed classes for Orchestrating Distributed Services with the CX 10000 Series. Training can take place anywhere in United Kingdom including London, Manchester, Birmingham, Edinburgh, or live online allowing teams from across United Kingdom or internationally to attend.

Q: What related terms do people search for?

Popular related searches include: Orchestrating Distributed Services with the CX 10000 Series, Aruba Products & Management, ODSACX10KS

Q: Why choose Nexus Human for Orchestrating Distributed Services with the CX 10000 Series?

Nexus Human is recognized as one of the leading training providers. Our trainers have won multiple awards including:

- Small Firms Best Trainer Award
- National Training Partner of the Year (Ireland) - Multiple Years
- Global Top 30 Instructor Awards (2012, 2019, 2021)
- Tech Excellence Award Nominations
- Learning Performance Institute (LPI) External Training Provider Sponsor 2024

Q: Are there any discount codes available?

Yes! Use discount code **PENPAL5** when booking your Orchestrating Distributed Services with the CX 10000 Series training. Please note that only one discount code can be used per booking and cannot be combined with other special offers.

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