Enterprise Computing Solutions - Education Services

TRAINING OFFERING

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Implementing Aruba OS-CX Switching

CODE:	LENGTH:	PRICE:
ARU_IAOSCX	40 Hours (5 days)	Request Price

Description

This course teaches you the advanced skills necessary to implement and operate enterprise level Aruba campus switching solutions. You will build on the skills you learned at the Associate level to configure and manage modern, open standards-based networking solutions using Aruba's OS-CX routing and switching technologies. In this course, participants learn about ArubaOS-CX switch technologies including: securing port access with Aruba's dynamic segmentation, redundancy technologies such as Multiple Spanning Tree Protocol (MSTP), link aggregation techniques including Link Aggregation Protocol (LACP) and switch virtualization with Aruba’s Virtual Switching Extension (VSX) and Aruba's Virtual Switching Framework (VSF). This course is approximately 50% lecture and 50% hands-on lab exercises.

Objectives

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

Use NetEdit to manage switch configurations
Use the Network Analytics Engine (NAE) to implement scripting solutions to provide for proactive network management and monitoring
Compare and contrast VSX, VSF, and backplane stacking
Explain how VSX handles a split-brain scenario
Implement and manage a VSX fabric
Define ACLs and identify the criteria by which ACLs select traffic
Configure ACLs on AOS-CX switches to select given traffic
Apply static ACLs to interfaces to meet the needs of a particular scenario
Examine an ACL configuration and determine the action taken on specific packets
Deploy AOS-Switches in single-area and multi-area OSPF systems
Use area definitions and summaries to create efficient and scalable multiple area designs
Advertise routes to external networks in a variety of OSPF environments
Promote fast, effective convergence during a variety of failover situations
Use virtual links as required to establish non-direct connections to the backbone
Implement OSFP authentication
Establish and monitor BGP sessions between your routers and ISP routers
Advertise an IP block to multiple ISP routers
Configure a BGP router to advertise a default route in OSPF
Use Internet Group Management Protocol (IGMP) to optimize forwarding of multicast traffic within VLANs
Describe the differences between IGMP and IGMP snooping
Distinguish between PIM-DM and PIM-SM
Implement PIM-DM and PIM-SM to route multicast traffic
Implement Virtual Routing Forwarding (VRF) policies to contain and segregate routing information
Create route maps to control routing policies
Understand the use of user roles to control user access on AOS-CX switches
Implement local user roles on AOS-CX switches and downloadable user roles using a ClearPass solution
Implement 802.1X on AOS-CX switch ports
Integrate AOS-CX switches with an Aruba ClearPass solution, which might apply dynamic role settings
Implement RADIUS-based MAC Authentication (MAC-Auth) on AOS-CX switch ports
Configure captive portal authentication on AOS-CX switches to integrate them with an Aruba ClearPass solution
Combine multiple forms of authentication on a switch port that supports one or more simultaneous users
Configure dynamic segmentation on AOS-CX switches
Explain how technologies such as sFlow and traffic mirroring allow you to monitor network traffic
Describe how AOS-CX switches prioritize traffic based on its queue
Configure AOS-CX switches to honor the appropriate QoS marks applied by other devices
Configure AOS-CX switches to select traffic, apply the appropriate QoS marks, and place the traffic in the proper priority queues
Implement rate limiting
Understand how the Virtual Output Queuing (VOQ) feature mitigates head-of-line (HOL) blocking
Configure a voice VLAN and LLDP-MED

Audience

Typical candidates for this course are IT Professionals who will deploy and manage networks based on HPE’s ArubaOS-CX switches.

Prerequisites

ArubaOS-CX Switching Fundamentals (CXF)

Programme

ntroduction to Aruba Switching
NetEdit
Network Analytics Engine (NAE)
VSX
ACLs
Advanced OSPF
BGP
IGMP
Multicast Routing: PIM
802.1X Authentication
MAC Authentication
Dynamic Segmentation
Quality of Service
Additional Routing Technologies
Capitve Portal Authentication

Test and Certification

Questo corso è parte della seguente certificazione: Aruba Certified Switching Professional (ACSP)

Session Dates

Su richiesta. Contattaci al n.ro +39 0471 099134 oppure via mail a training.ecs.it@arrow.com

Informazioni aggiuntive

Questa formazione è disponibile anche come formazione in loco. Per favore, contattaci per saperne di più.