Hewlett Packard Enterprise

Implementing Aruba Campus Switching (01095999) H6LK9S

HPE course number	H6LK9S
Course length	5 Days
Delivery mode	ILT , VILT
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Why HPE Education Services?

- IDC MarketScape leader 5 years running for IT education and training*
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*Realize Technology Value with Training, IDC Infographic 2037, Sponsored by HPE, October 2017

This course teaches you how to implement and operate enterprise- level Aruba campus switching solutions. Hand-on labs give you experience with ArubaOS-Switches, including securing access, redundancy technologies such as Multiple Spanning Tree Protocol (MSTP), link aggregation techniques including Link Aggregation Protocol (LACP) and switch virtualization with HPE's Virtual Switching Framework (VSF). You will also learn to configure dynamic routing with Open Shortest Path First (OSPF) and Border Gateway Protocol (BGP), network optimization via Quality of Service (QoS), IP multicast routing leveraging Protocol Independent Multicast (PIM), and protecting the network using Access Control Lists (ACLs). This course is approximately 30% lecture and 70% hands on lab exercises.

Audience

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

Prerequisites

- Aruba Switching Fundamentals For Mobility V1

Course objectives

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

- Implement spanning tree protocol and loop protections
- Ensure redundancy for a network's default gateway by configuring VRRP on Aruba switches
- Implement and manage an VSF fabric
- Deploy ArubaOS switches in single-area and multi-area OSPF systems
- Use Internet Group Management Protocol (IGMP) to optimize forwarding of multicasts within VLANs
- Implement PIM-DM to route multicast traffic
- Establish and monitor BGP sessions between your routers and ISP routers
- Define ACLs and identify the criteria by which ACLs select traffic
- Configure ACLs on ArubaOS switches to select given traffic
- Implement 802.1X on ArubaOS switch ports

- Configure captive portal authentication on ArubaOS switches to integrate them with an
- Configure tunneled-node on ArubaOS switches
- Configure ArubaOS switches to select traffic , apply the appropriate QoS marking, and place the traffic in the proper priority queues
- Implement DHCP snooping and ARP protection to defend networks against DHCP exploits, ARP snooping, and ARP poisoning attacks
- Implement the proper port security measures for various use cases
- Implement connection rate filtering to provide a first layer of protection against viruses and worms

Certifications and related examinations

Related certifications

- Aruba Certified Switching Professional (ACSP) V1
- Aruba Certified Switching Professional (ACSP) V1- upgrade from Cisco, Juniper or Brocade
- Aruba Certified Switching Professional (ACSP) V1- upgrade from HP ASE - FlexNetwork Architect V2 or HP ASE - FlexNetwork Integrator V1

In preparation for these exams

- HPE6-A45: Implementing Aruba Campus Switching Solutions
- HPE6-A46: Delta - Implementing Aruba Campus Switching Solutions

Detailed course outline

- Introduction to Aruba Solutions
- Data Link Layer Redundancy Technologies
- Virtual Router Redundancy Protocol (VRRP)
- Aruba Backplane Stacking and Advanced Virtual Switch Framework (VSF)
- Advanced Open Shortest Path First (OSPF)
- Internet Group Management Protocol (IGMP)
- Border Gateway Protocol (BGP)
- Access Control Lists (ACLs)
- MAC Authentication
- Captive Portal and Other Guest Options
- Integrating with Aruba Mobility Solutions
- Secure Device Management
- Quality of Service (QoS)
- Additional Security Features

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