Training: Aruba
Configuring AOS-S Switching Level 2

TRAINING GOALS:

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.

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 Aruba ClearPass solution
- 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

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- Implement connection rate filtering to provide a first layer of protection against viruses and worms

Target Audience

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

CONSPECT:

- 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

REQUIREMENTS:

Suggested prerequisites **Aruba Switching Fundamentals For Mobility** course.

Difficulty level



CERTIFICATE:

The participants will obtain certificates signed by Aruba Networks.

This course additionally prepares you for Aruba Networks Professional level certification exam: **Aruba Certified Switching Professional (ACSP)** available at Pearson VUE test centers.

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TRAINER:

Aruba Networks Certified Trainer.

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