ERS 8800/8600/8300 Advanced Configuration and Maintenance (6722)

GK0210

Duration: 5 days

Overview

This course provides an in-depth look at the ERS 8800, ERS 8600, ERS 8300, and ERS 1600 products focusing on the advanced features, maintenance, and troubleshooting. You will gain hands-in experience in building and troubleshooting a Resilient Switch Cluster with ERS 8600 and ERS 8300 observing the traffic flow and predicable failure recovery. You will also configure QoS and IP filters on the ERS 8600 R-modules and ERS 8300 switches.

Throughout the course you will perform configuration analysis and troubleshoot Layers 1, 2, 3, and 4 utilizing the ERS 8600 maintenance capabilities including PCAP Ping-Snoop. An IP Multicast network is implemented using PIM-SM.

Discussions for the most advanced features of the ERS are included: VRF-lite, MPLS and IP VPN-lite, RS modules, 10 Gig Ethernet, and advanced QoS.

Pre-Requisites

Attendance at the following courses:
- ✓ Converged Campus: ERS Solution Installation and Configuration (6721)
- ✓ Visualize, Prioritize, and Secure Your Network (6706)

Objectives

You will learn:
- ✓ ERS 8800 hardware and software features and benefits;
- ✓ ERS 8600 hardware and software features and benefits;
- ✓ ERS 8300 hardware and software features and benefits;
- ✓ ERS 1600 hardware and software features and benefits;
- ✓ ERS 8600 hardware including the chassis, power supplies, switch fabrics and I/O modules;
- ✓ ERS chassis operation, tuning, and maintenance requirements;

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- ✓ How the ERS maintains the run-time configuration files and maintains file synchronization;
- ✓ How passwords, filters, and protocols are used to manage security on the ERS 8600;
- ✓ The Physical link test options and PoE on ERS
- ✓ ERS switch cluster operation and configuration including the loop detection and prevention protocols;
- ✓ Diagnostic commands available on the ERS 8600
- ✓ How to configure the ERS Routing Table Manager function and Network Virtualization (VRF-lite) on the ERS 8600;
- ✓ Quality of Service (QoS) capabilities of the ERS 8600 R modules, ERS 8600 E modules, ERS 8300, and ERS 1600;

- ✓ How to configure traffic filters on the ERS for prioritizing, mirroring, and dropping traffic;
- ✓ Multicast protocols supported on the ERS products and how they operate within supported topologies;
- ✓ MPLS solution on the ERS 8600;
- ✓ Configuring the IP-VPN solution on the ERS 8600.

Target Audience

Technical staff who are responsible for the installation or configuration of Campus Solutions using Avaya's Ethernet Routing Switch Products. Technical personnel who need to prepare for operation and management of the Avaya Ethernet Routing Switches.