

Juniper Networks - Advanced Junos Enterprise Switching

Code:	JP-AJEX
Length:	2 days
URL:	View Online

This two-day course provides detailed coverage of virtual LAN (VLAN) operations, Multiple Spanning Tree Protocol (MSTP) and VLAN Spanning Tree Protocol (VSTP), authentication and access control for Layer 2 networks, IP telephony features, class of service (CoS), and monitoring and troubleshooting tools and features supported on the EX Series Ethernet Switches. Through demonstrations and hands-on labs, you will gain experience in configuring and monitoring the Junos operating system and in monitoring device and protocol operations. This course uses Juniper Networks EX Series Ethernet Switches for the hands-on component, but the lab environment does not preclude the course from being applicable to other Juniper hardware platforms running the Junos operating system. This course is based on the Junos OS Release 12.2R1.8.

Skills Gained

- After successfully completing this course, you should be able to:
- Implement filter-based VLAN assignments.
- Restrict traffic flow within a VLAN.
- Manage dynamic VLAN registration.
- Tunnel Layer 2 traffic through Ethernet networks.
- Review the purpose and operations of a spanning tree.
- Implement multiple spanning-tree instances in a network.
- Implement one or more spanning-tree instances for a VLAN.
- List the benefits of implementing end-user authentication.
- Explain the operations of various access control features.
- Configure and monitor various access control features.
- Describe processing considerations when multiple authentication and access control features are enabled.
- Describe some common IP telephony deployment scenarios.
- Describe features that facilitate IP telephony deployments.
- Configure and monitor features used in IP telephony deployments.
- Explain the purpose and basic operations of CoS.
- Describe CoS features used in Layer 2 networks.
- Configure and monitor CoS in a Layer 2 network .
- Describe a basic troubleshooting method.
- List common issues that disrupt network operations.
- Identify tools used in network troubleshooting.
- Use available tools to resolve network issues.

Who Can Benefit

- This course benefits individuals responsible for configuring and monitoring EX Series switches.

Prerequisites

- Intermediate-level of networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite.
- Attend the Introduction to the Introduction to the Operating System (IJOS) course, the Junos Routing Essentials (JRE) course, and the JUNOS Enterprise Switching (JEX) course prior to attending this class.

Course Details

Advanced Junos Enterprise Switching

- Day 1 Chapter 1: Course Introduction Chapter 2: Advanced Ethernet Switching Virtual Local Area Networks
- Automating VLAN Administration
- Tunneling Layer 2 Traffic
- Lab 1: Advanced Ethernet Switching Chapter 3: Advanced Spanning Tree Spanning Tree Review
- MSTP
- VSTP
- Lab 2: Advanced Spanning TreeChapter 4: Authentication and Access Control Authentication Overview
- Access Control Features
- Overview of Authentication Processing
- Lab 3: Authentication and Access Control Day 2Chapter 5: Deploying IP Telephony Features Deployment Scenarios
- IP Telephony Features
- Case Study: Deploying IP Telephony Features
- Lab 4: Deploying IP Telephony FeaturesChapter 6: Class of Service Class of Service Review
- Processing and Feature Overview
- Case Study: Implementing Class of Service
- Lab 5: Class of ServiceChapter 7: Monitoring and Troubleshooting Layer 2 Networks Introduction to Monitoring and Troubleshooting
- Monitoring and Troubleshooting Tools
- Case Studies
- Lab 6: Monitoring and Troubleshooting

Schedule (as of 2)

Date

Location
