
Advanced Junos Enterprise Switching

Duration: 2 Days **Course Code: AJEX**

Overview:

The Advanced Junos Enterprise Switching (AJEX) 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, students will gain experience in configuring and monitoring the Junos operating system and in monitoring device and protocol operations.

Target Audience:

This course is designed for: Individuals responsible for configuring and monitoring EX Series switches.

Objectives:

- Upon completing this course, the learner will be able to meet these overall objectives:
 - 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.
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Prerequisites:

The knowledge and skills that a learner must have before attending this course are as follows:

- Intermediate-level of networking knowledge and an understanding of the Open Systems Interconnection (OSI) reference model and the TCP/IP protocol suite.

To gain the prerequisite skills and knowledge, Juniper strongly recommends the knowledge of the following courses:

- Introduction to the Junos Operating System (IJOS)
- Junos Routing Essentials (JRE)
- Junos Enterprise Switching (JEX)

Testing and Certification

Recommended preparation for:

- JN0-643 - Juniper Networks Certified Internet Professional (JNCIP-ENT)
AJEX and AJER are the courses required for the **Juniper Networks Certified Internet Professional (JNCIP-ENT)** Certification
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Follow-on-Courses:

- AJER - Advanced Junos Enterprise Routing

The above course is part of the **Juniper Networks Certified Internet Professional (JNCIP-ENT)** Certification

Content:

Advanced Ethernet Switching

- Virtual Local Area Networks
- Automating VLAN Administration
- Tunneling Layer 2 Traffic

Advanced Spanning Tree

- Spanning Tree Review
- MSTP
- VSTP

Authentication and Access Control

- Authentication Overview
- Access Control Features
- Overview of Authentication Processing

Deploying IP Telephony Features

- Deployment Scenarios
- IP Telephony Features
- Case Study: Deploying IP Telephony Features

Class of Service

- Class of Service Review
- Processing and Feature Overview
- Case Study: Implementing Class of Service

Monitoring and Troubleshooting Layer 2 Networks

- Introduction to Monitoring and Troubleshooting
 - Monitoring and Troubleshooting Tools
 - Case Studies
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Further Information:

For More information, or to book your course, please call us on +254 713 027 191

training@clclearningafrica.com

www.clclearningafrica.com

Computer Learning Centre 2nd Floor Museum Hill Centre, Muthithi Road, Westlands, Nairobi, Kenya