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Register

JNCIS-ENT Certification Training

3 days (21 hours)

Overview

The Juniper JNCIS-ENT certification is a technical training course designed for network professionals who want to gain in-depth knowledge of Enterprise Routing & Switching environments running Junos OS. Designed for enterprise infrastructures, it validates essential skills in configuring, optimizing, and troubleshooting modern Juniper topologies.

Our JNCIS-ENT training will allow you to deepen your knowledge of advanced network technologies: dynamic routing, professional switching, high availability, routing policies, and L2/L3 services, including the basics of multicast.

You will learn how to design reliable architectures, structure your traffic control policies, implement advanced resilience mechanisms, and industrialize your configurations using the monitoring, traceoptions, and diagnostic tools integrated into Junos. The hands-on workshops in each chapter allow you to anchor each skill in an operational context close to production environments.

The last part of the course is entirely devoted to preparing for certification, with a complete mock exam, realistic scenarios, and a structured review of essential commands, so that you can approach the JNCIS-ENT exam with confidence.

Like all our training courses, this one is based on the latest stable version of [Junos OS](#) and focuses on a decidedly practical, operational, and skills-oriented approach.

Objectives

- Master the architecture and fundamentals of Junos OS
- Deploy enterprise routing and switching environments
- Configure and troubleshoot OSPF and IS-IS
- Implement VLANs, LACP, and high availability
- Apply routing policies and firewall filters

- Effectively prepare for JNCIS-ENT certification

Target audience

- Network engineers
- System/network administrators
- Network technicians
- Professionals aiming for JNCIS-ENT certification

Prerequisites

- CCNA/JNCIA level network knowledge
- Mastery of L2/L3 concepts
- Initial experience with Junos OS preferred

Our JNCIS-ENT - Enterprise Routing & Switching training program

[Day 1 - Morning]

Introduction to Juniper fundamentals and JNCIS-ENT

- Discovering the architecture of Juniper Networks equipment
- Understanding how Junos OS works
- Working with Operational and Configuration modes
- Manage commit and rollback
- Identify the scope of JNCIS-ENT certification
- Hands-on workshop: Getting started with the Junos CLI, commits, and rollbacks.

[Day 1 - Afternoon]

Mastering basic routing in Junos

- Configuring static routing
- Exploring inet routing tables
- Creating and using routing instances
- Understanding routing decision mechanisms
- Use network diagnostic tools
- Hands-on workshop: Setting up static routing.

Dynamic routing protocols (OSPF & IS-IS)

- Understanding how OSPF works
- Configuring areas, DR/BDR, and adjacencies
- Troubleshooting an OSPF environment
- Introduction to IS-IS
- Choosing between OSPF and IS-IS
- Hands-on workshop: complete OSPF deployment.

[Day 2 - Morning]

Advanced switching on Junos

- Configuring VLANs, trunks, and access ports
- Managing RSTP/MSTP
- Understanding bridging domains
- Troubleshooting switching environments
- Optimize L2 performance
- Hands-on workshop: Setting up VLANs and Spanning Tree.

[Day 2 - Afternoon]

Aggregation, redundancy, and high availability

- Configuring LAG / 802.3ad
- Understanding LACP mechanisms
- Building a Virtual Chassis
- Implement GRES and NSR
- Designing an HA Strategy
- Hands-on workshop: Configuring Virtual Chassis and LACP.

Advanced routing: policies and filters

- Understanding policy options
- Applying routing policies
- Creating firewall filters
- Manipulating prefixes and next-hop
- Optimizing traffic via policies
- Hands-on workshop: Configuring routing policies and firewall filters.

[Day 3 - Morning]

L2/L3 and Multicast services

- Analyzing Layer 2/Layer 3 services
- Discover IGMP
- Configuring PIM-SM

- Troubleshoot Multicast Flows
- Integrating Multicast into your business
- Hands-on workshop: Multicast stream transmission.

[Day 3 - Afternoon]

Troubleshooting and monitoring on Junos

- Using traceoptions
- Using monitor traffic and logs
- Applying a diagnostic methodology
- Identify configuration inconsistencies
- Implement observability tools
- Hands-on workshop: Complete incident resolution.

Preparation for JNCIS-ENT certification

- Understanding the exam structure
- Identify the most frequently tested topics
- Work on pitfalls and strategies
- Review essential commands
- Simulate an exam environment
- Practical workshop: Preparation for the mock exam + correction.

Companies concerned

This training is aimed at both individuals and companies, large or small, wishing to train their teams in new advanced IT technology or to acquire specific professional knowledge or modern methods.

Placement at the start of training

The positioning at the start of the training complies with Qualiopi quality criteria. Upon final registration, the learner receives a self-assessment questionnaire that allows us to assess their estimated level of proficiency in different types of technologies, as well as their expectations and personal objectives for the upcoming training, within the limits imposed by the selected format. This questionnaire also allows us to anticipate certain connection or internal security issues within the company (intra-company or virtual classroom) that could be problematic for the monitoring and smooth running of the training session.

Teaching methods

Practical training: 60% practical, 40% theory. Training materials distributed in digital format to all participants.

Organization

The course alternates between theoretical input from the trainer, supported by examples and

reflection sessions and group work.

Assessment

At the end of the session, a multiple-choice questionnaire is used to verify that the skills have been correctly acquired.

Certification

A certificate will be issued to each trainee who has completed the entire training course.