



Juniper Networks Certified Associate JNCIA-Junos (Exam: JN0-102)

This list provides a general view of the skill set required to successfully complete the specified certification exam. Topics listed are subject to change.

Course Content

Networking Fundamentals

- ❖ Identify the concepts and functionality of various fundamental elements of networking
 - ✓ Collision domains and broadcast domains
 - ✓ Function of routers and switches
 - ✓ Optical network fundamentals – SONET/SDH, OTN
 - ✓ Ethernet networks
 - ✓ Layer 2 addressing, including address resolution
 - ✓ IPv4 and IPv6 fundamentals
 - ✓ Layer 3 / IP addressing, including subnet masks
 - ✓ Subnetting and supernetting
 - ✓ Decimal to BINARY conversion
 - ✓ Longest match routing
 - ✓ Connection-oriented vs. connectionless protocols

Junos OS Fundamentals

- ❖ Identify the concepts, benefits and functionality of the core elements of the Junos OS
 - ✓ Junos device portfolio – product families, general functionality
 - ✓ Software architecture
 - ✓ Control and forwarding planes
 - ✓ Routing Engine and Packet Forwarding Engine
 - ✓ Protocol daemons
 - ✓ Transit traffic processing
 - ✓ Exception traffic

User Interfaces

- ❖ Identify the concepts, operation and functionality of the Junos user interfaces
 - ✓ CLI functionality
 - ✓ CLI modes
 - ✓ CLI navigation
 - ✓ CLI Help
 - ✓ Filtering output
 - ✓ Active vs. candidate configuration
 - ✓ Reverting to previous configurations
 - ✓ Modifying, managing, and saving configuration files
 - ✓ Viewing, comparing, and loading configuration files
 - ✓ J-Web – core/common functionality

Junos Configuration Basics

- ❖ Identify the main elements for configuring Junos devices
 - ✓ Factory-default state
 - ✓ Initial configuration
 - ✓ User accounts
 - ✓ Login classes
 - ✓ User authentication methods
 - ✓ Interface types and properties
 - ✓ Configuration groups
 - ✓ Additional initial configuration elements – NTP, SNMP, syslog, etc.
 - ✓ Configuration archival
 - ✓ Logging and tracing

- ✓ Rescue configuration
- ❖ Describe how to configure basic components of a Junos device

Operational Monitoring and Maintenance

- ❖ Identify methods of monitoring and maintaining Junos devices
 - ✓ Show commands
 - ✓ Monitor commands
 - ✓ Interface statistics and errors
 - ✓ Network tools – ping, traceroute, telnet, SSH, etc.
 - ✓ Real-time performance monitoring (RPM)
 - ✓ Junos OS installation
 - ✓ Software upgrades
 - ✓ Powering on and shutting down Junos devices
 - ✓ Root password recovery
- ❖ Describe monitoring and maintenance procedures for a Junos device

Routing Fundamentals

- ❖ Identify basic routing concepts and functionality for Junos devices
 - ✓ Packet forwarding concepts
 - ✓ Routing tables
 - ✓ Routing vs. forwarding tables
 - ✓ Route preference
 - ✓ Routing instances
 - ✓ Static routing
 - ✓ Advantages of / use cases for dynamic routing protocols
- ❖ Describe how to configure and monitor basic routing elements for a Junos device

Routing Policy and Firewall Filters

- ❖ Identify the concepts and functionality of routing policy and firewall filters on Junos devices
 - ✓ Default routing policies
 - ✓ Import and export policies
 - ✓ Routing policy flow
 - ✓ Effect of policies on routes and routing tables
 - ✓ Policy structure and terms
 - ✓ Policy match criteria, match types, and actions
 - ✓ Firewall filter concepts
 - ✓ Firewall filter concepts

- ✓ Filter match criteria and actions
- ✓ Effect of filters on packets
- ✓ Unicast reverse-path-forwarding (RPF)
- ❖ Describe how to configure and monitor routing policies and firewall filters on a Junos device

Contact Us

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