

Online Course



Junos Associate (JNCIA-Junos)

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Course Modules

1. Identify the concepts & Functionlity of various fundamentals

- Collision domains and broadcast domains
- Function of routers and switches
- Ethernet networks
- Layer 2 addressing, including address resolution
- Layer 3 / IP addressing, including subnet masks
- IPv4 / IPv6
- Subnetting and supernetting
- Decimal to binary conversion
- Longest match routing
- CoS
- Connection-oriented vs. connectionless protocols

2. Idntfy the concpts, benefits of the core elements ofJunos OS

- Software architecture
- Control and forwarding planes
- Routing engine and packet-forwarding engine
- Transit traffic processing
- Exception traffic

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3. Identify the concepts, operation of the Junos user interface

- 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 only)

4. 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
- Configuration archival
- Logging and tracing
- Rescue configuration



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5. Identify methods of monitoring or maintaining Junos devices

- Show commands
- Monitor commands
- Interface statistics and errors
- Network tools, such as ping, traceroute, telnet, SSH, etc.
- Junos OS installation and upgrades
- Powering on and shutting down Junos devices
- Root password recovery

6. Identify basic routing concepts or functionality for Junos devices

- Traffic forwarding concepts
- Routing tables
- Routing vs. forwarding tables
- Route preference
- Routing instances
- Static routing
- Advantages of and use cases for dynamic routing protocols



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7. Identify the concepts or functionality of routing policy

- 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
- Filter structure and terms
- Filter match criteria and actions
- Effect of filters on packets
- Unicast reverse-path-forwarding (RPF)



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in terms of time management,
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