Certification

Resources - JNCIA-EX Exam Objectives (Exam: JN0-400)

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

- Introduction to Juniper Networks Enterprise Switches
- User Interface Options
- Installation and Initial Configuration
- Secondary System Configuration
- Operational Monitoring and Maintenance
- Virtual Chassis
- Interface Support, Configuration, and Monitoring
- Ethernet Switching and Virtual LANs
- Spanning Tree Protocol
- Inter-VLAN Routing
- Routing Policy and Firewall Filters
- Switching Security
- IP Telephony Services

Introduction to Juniper Networks Enterprise Switches

- Describe the available enterprise switching platforms
- Describe the hardware architecture of an EX-series switch.
- Describe the packet flow through an EX-series switch.
- Define the portions of the JUNOS software architecture. Include information on protected memory spaces, individual daemon process, and locations where the JUNOS software may operate.

▲To Top

User Interface Options

- Describe access and navigation considerations for the J-Web interface
- Describe the configuration hierarchy.
- Identify the commands used in configuration mode (edit, set, delete, commit).
- Describe active, candidate, and rollback configurations.
- Identify options for manipulating "saved" configuration files. Include rollback options, load options, and rollback file locations.

▲To Top

Installation and Initial Configuration

- Describe how to save, delete, and view the rescue configuration.
- Describe the factory default configuration.
- List initial configuration options and describe initial configuration tasks performed in console and J-Web Ezsetup..

▲To Top

Secondary System Configuration

- List user authentication methods and describe the purpose of authentication order.
- Configure user accounts, authentication methods, and the authentication order.
- Describe system logging and tracing.
- Configure and verify secondary configuration options.

▲To Top

Operational Monitoring and Maintenance

- Identify commands and network utilities used to monitor system and chassis operations.
- Perform software upgrade.
- Perform file system maintenance and password recovery.

▲To Top

Virtual Chassis

- List and describe the components of a virtual chassis.
- Explain the recommended installation process for a virtual chassis.
- List and describe some common virtual chassis deployment options.
- Describe the management features used for virtual chassis.
- Describe the roles and responsibilities of member switches within a virtual chassis.
- Describe virtual chassis operation and packet flow.

▲To Top

Interface Support, Configuration, and Monitoring

- Describe interface support for EX-series switches.
- Configure layer 2 and layer 3 interfaces.
- Configure a link aggregation group on an EX-series switch.
- Describe interface monitoring options.

▲To Top

Ethernet Switching and Virtual LANs

- Define and list the benefits of bridging.
- List and describe the mechanisms used to build and maintain bridge tables.
- Define and list the benefits of VLANs.
- Describe the characteristics and operation of the VLAN port modes.
- Describe the structure of an 802.1Q VLAN tagged Ethernet frame.
- Configure and verify proper operation of VLANs

▲To Top

Spanning Tree Protocol

- Explain the purpose and basic operation of STP, RSTP, and MSTP.
- Configure and monitor STP, RSTP, and MSTP.
- Define, configure, and monitor Redundant Trunk Group (RTG).

▲To Top

Inter-VLAN Routing

- Describe the purpose of a routed VLAN interface.
- Describe route preferences.
- Configure static and OSPF routing.
- Define, configure, and monitor VRRP.

▲To Top

Routing Policy and Firewall Filters

- Explain the policy framework components and definition considerations for EX-series switches.
- List common situations when routing policies should be used.
- List the types of firewall filters supported on EX-series switches and describe how each is defined and applied.

▲To Top

Switching Security

- Define, configure, and monitor MAC limiting.
- Explain the benefits and operation of DHCP snooping.
- Describe the purpose and basic of operation of DAI.
- Explain the benefits and operation of 802.1X.
- Configure and monitor 802.1X.

▲To Top

IP Telephony Services

- Explain the purpose of PoE and describe the PoE support on EX-series switches.
- Provide a definition for voice VLAN and explain some benefits for implementing a voice VLAN on an EX-series switch.
- Explain the purpose and benefits of LLDP and LLDP-MED.

▲To Top