

JNCIP-ENT Exam Objectives (Exam: JN0-647)

This list provides a general view of the skill set required to successfully complete the specified certification exam.

Interior Gateway Protocols (IGPs)

- Describe the concepts, operation or functionality of IGPs
 - IS-IS
 - RIP
 - OSPFv2 and OSPFv3
 - Routing Policy
- Given a scenario, demonstrate knowledge of how to configure, troubleshoot, or monitor IGPs

BGP

- Describe the concepts, operation or functionality of BGP
 - BGP route selection process
 - Next hop resolution
 - BGP attributes - concept and operation
 - BGP communities
 - Regular expressions
 - Load balancing - multipath, multihop, forwarding table
 - NLRI families -- inet, inet6
 - Advanced BGP options
- Given a scenario, demonstrate knowledge of how to configure, troubleshoot, or monitor BGP
- Implement BGP routing policy

IP Multicast

- Describe the concepts, operation or functionality of IP multicast
 - Components of IP multicast, including multicast addressing
 - IP multicast traffic flow
 - Any-Source Multicast (ASM) vs. Source-Specific Multicast (SSM)
 - RPF - concept and operation
 - IGMP, IGMP snooping
 - PIM dense-mode and sparse-mode
 - Rendezvous point (RP) - concept, operation, discovery, election

- SSM - requirements, benefits, address ranges
- Anycast RP
- MSDP
- Routing policy and scoping
- Given a scenario, demonstrate knowledge of how to configure, troubleshoot, or monitor IP multicast
- IGMP, PIM-DM, or PIM-SM (including SSM)
- Implement IP multicast routing policy

Ethernet Switching and Spanning Tree

- Describe the concepts, operation or functionality of advanced Ethernet switching
- Filter-based VLANs
- Private VLANs
- Dynamic VLAN registration using MVRP
- Tunnel Layer 2 traffic through Ethernet networks
- Junos Fusion Enterprise
- Layer 2 tunneling using Q-in-Q and L2PT
- Given a scenario, demonstrate knowledge of how to configure, troubleshoot, or monitor advanced Ethernet switching
- Filter-based VLANs
- Private VLANs
- Dynamic VLAN registration using MVRP
- Tunnel Layer 2 traffic through Ethernet networks
- Junos Fusion Enterprise
- Layer 2 tunneling using Q-in-Q and L2PT
- Describe the concepts, operation or functionality of advanced spanning tree protocols, including MSTP or VSTP
- Given a scenario, demonstrate knowledge of how to configure, troubleshoot, or monitor MSTP or VSTP

Layer 2 Authentication and Access Control

- Describe the operation of various Layer 2 authentication or access control features
- Authentication process flow
- 802.1x - concepts and functionality
- MAC RADIUS
- Captive portal
- Server fail fallback
- Guest VLAN

- Considerations when using multiple authentication/access control methods
- Given a scenario, demonstrate how to configure, troubleshoot, or monitor Layer 2 authentication or access control

IP Telephony Features

- Describe the concepts, operation or functionality of features that facilitate IP telephony deployments
 - Power over Ethernet (PoE)
 - LLDP and LLDP-MED
 - Voice VLAN
- Given a scenario, demonstrate how to configure, troubleshoot, or monitor features used to support IP telephony deployments

Class of Service (CoS)

- Describe the concepts, operation or functionality of Junos CoS for Layer 2/3 networks
 - CoS processing on Junos devices
 - CoS header fields
 - Forwarding classes
 - Classification
 - Packet loss priority
 - Policers
 - Schedulers
 - Drop profiles
 - Shaping
 - Rewrite rules
- Given a scenario, demonstrate knowledge of how to configure, troubleshoot, or monitor CoS for Layer 2/3 networks

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