

JNCIE-SP Exam Objectives (Exam: JPR-960)

This list is intended to provide a general view of the skill sets required to successfully complete the JNCIE-SP exam.

Device Infrastructure

- High Availability
 - Aggregated Ethernet, including fault detection
 - Graceful Restart
 - Graceful Routing Engine switchover
 - Nonstop Routing
 - VRRP
- Automation Implementation
 - Scripts (OP/event/commit)
 - Archival
- Secure and Monitor Junos Devices
 - Radius and local user accounts
 - Firewall filtering
 - Unicast reverse-path-forwarding
 - Syslog

IGP

- Troubleshooting
 - Neighbor establishment
 - Routing loops
 - MTU mismatch
 - Authentication
 - Router IDs
 - IGP timers
- Implementing
 - Configuration of IGPs (IS-IS and OSPF)
 - Router advertisement
 - Routing policy
 - IPv4 and IPv6 support
 - BFD

- Loop-free alternate routes
- Load balancing
- Optimize timers
- CSPF support

MPLS

- Signaling protocols
 - RSVP
 - LDP tunneling
 - LDP IGP tracking
 - LDP policies
 - BFD
- Path selection
 - Admin groups
 - Defining EROs
 - Bypass LSPs
 - Detour LSPs
- Features
 - Load balancing
 - LSP selection using policy
 - Routing table manipulation
 - Optimization and auto bandwidth
 - TTL handling

BGP

- Routing Policy
 - Communities
 - IPv4 and IPv6
 - 4-byte ASN
 - Load balancing
 - Remote-triggered black holes
- Implementation
 - IBGP and EBGP
 - IPv4 and IPv6 peering communities
 - IPv6 tunneling
 - Authentication
 - 4-byte ASN
 - BFD
- Scaling

- Route reflection with IPv4, IPv6, and VPNs
- Inet.3 and inet.6.3 route resolution

VPNs

- Layer 3 VPNs
 - Hub and spoke
 - Multi-homed
 - IPv4 and IPv6
 - Internet access
 - Source of Origin
 - PE-CE Protocols (BGP, OSPF, RIP, or Static)
 - 6PE
 - Auto export, RIB groups
 - Label-switched interface
 - AS override
- Layer 2 VPNs
 - VPLS (BGP and LDP)
 - VPLS multi-homing
 - Martini and Kompella
 - VPLS with a point-to-multipoint LSP
 - IRB
 - IGMP snooping for VPLS
 - Spanning tree for VPLS
 - VLAN normalization (push, pop, or swap)
 - Firewall filtering
- Inter-AS VPNs
 - Interprovider
 - Carrier-of-carriers

Multicast

- Implementation
 - Draft-rosen and NG MVPN
 - PIM sparse mode
 - Multicast scoping
 - MSDP
 - RP redundancy

CoS

- Implementation
 - BA and MF classifiers

- Rewrite rules
- Drop profiles
- Policers
- Schedulers

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