Enterprise Routing an Switching Specialist (JNCIS-ENT)

Zetlan Technologies

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Online Course

ZETLAN TECHNOLOGIES
www.zetlantech.com

Foor contact:+91 8680961847
+91 9600579474

Course Modules

1. **Identify the concepts, operations of Layer 2 switching**
   - Bridging components
   - Frame processing

2. **Describe the concepts, benefits, or functionalities of VLANs**
   - Ports
   - Tagging
   - Native VLANs and voice VLANs
   - Inter-VLAN routing

3. **How to configure, monitor, or tshoot Layer 2 switching or VLANs**
   - Interfaces and ports
   - VLANs
   - Inter-VLAN routing

4. **Concepts, benefits, operations of the Spanning Tree Protocol (STP)**
   - STP and Rapid Spanning Tree Protocol (RSTP) concepts
   - Port roles and states
   - Bridge Protocol Data Units (BPDUs)
   - Convergence and reconvergence

5. **How to configure, monitor, or troubleshoot Spanning Tree**
   - STP
   - RSTP

6. **Identify the concepts, benefits of various Layer 2 protection**
   - BPDU, loop or root protection
   - Port security, including MAC limiting, DHCP snooping, etc
   - MACsec
   - Storm control

7. **Identify the concepts, benefits of Layer 2 firewall filters**
   - Filter types
   - Processing order
   - Match criteria and actions

8. **How to configure, monitor, or troubleshoot Layer 2 security**
   - Protection
   - Port security
   - Storm control
   - Firewall filter configuration and application

9. **Identify the concepts, operations of various protocol-independent**
   - Static, aggregate, and generated routes
   - Martian addresses
   - Routing instances, includg routing information base (RIB) groups
   - Load balancing
   - Filter-based forwarding

10. **How to config, monitor various protocol-independent routing**
    - Static, aggregate, and generated routes
    - Load balancing
    - Filter-based forwarding

11. **Describe the concepts, operations, or functionalities of OSPF**
    - Link-state database
    - OSPF packet types
    - Router ID
    - Adjacencies and neighbors
    - Designated router (DR) and backup designated router (BDR)
    - OSPF area and router types
    - Realms
    - Link-state advertisement (LSA) packet types

12. Demonstrate knowledge how to config, monitor ,tshoot OSPF

- Areas, interfaces, and neighbors
- Additional basic options
- Routing policy application
- Troubleshooting tools (ping, traceroute, traceoptions, etc)

13. Describe the concepts, operations, or functionalities of IS-IS

- Link-state database
- IS-IS Protocol Data Units (PDUs)
- Type, length, and values (TLVs)
- Adjacencies and neighbors
- Levels and areas
- Designated intermediate system (DIS)
- Metrics

14. How to configure, monitor, or troubleshoot IS-IS

- Levels, interfaces, and adjacencies
- Additional basic options
- Routing policy application
- Troubleshooting tools (ping, traceroute, traceoptions, etc)

15. Describe the concepts, operations, or functionalities of BGP

- BGP basic operation
- BGP message types
- Attributes
- Route/path selection process
- Internal and external BGP functionality and interaction

16. Demonstrate knowledge of how to configure, monitor

- Groups and peers
- Additional basic options
- Routing policy application
- Troubleshooting tools (ping, traceroute, traceoptions, etc)

17. Identify the concepts, requirements of IP tunneling

- Tunneling applications and considerations
- Generic Routing Encapsulation (GRE)
- IP-IP

18. How to configure, monitor, or troubleshoot IP tunnels

- GRE
- IP-IP
- Troubleshooting tools (ping, traceroute, traceoptions,etc)

19. Identify the concets, benefits, applications for Junos OS envrmet

- Link aggregation groups (LAG)
- Redundant trunk groups (RTG)
- Virtual chassis
- Graceful restart
- Graceful Routing Engine switchover (GRES)
- Nonstop active routing (NSR)
- Nonstop bridging (NSB)
- Bidirectional Forwarding Detection (BFD)
- Virtual Router Redundancy Protocol (VRRP)
- Unified In-Service Software Upgrade (ISSU)

20. How to configure, monitor tshoot high availability components

- LAG and RTG
- Virtual chassis
- Graceful restart, GRES, NSB, and NSR
- VRRP
- ISSU
- Troubleshooting tools (traceoptions, show commands, logging)

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in terms of time management,
flexibility, and the ability
to access resources anytime,
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