H3C Certified Network Engineer for Routing & Switching Plus

Zetlan Technologies

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Online Course

ZETLAN TECHNOLOGIES
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Course Modules

1. Campus Network Overview

- Enterprise network model
- Development history of campus network model
- Typical campus network deployment

2. VLAN Technologies

- Principle of VLAN
- Configurations of VLAN
- VLAN extension technology
- QinQ technology
- VLAN routing
- VLAN
- MVRP
- Private VLAN
- VLAN static routing

3. Spanning Tree

- Basic principles of STP
- Basic principles of RSTP
- Basic principles of MSTP
- Protection mechanism of STP
- RSTP
- MSTP

4.High Availability Technologies

- High availability technologies overview
- Link aggregation
- Smart link and monitor link (optional)
- RRPP (optional)
- VRRP
- BFD
- IRF
- MAD
- M-LAG
- Link aggregation
- Smart link and monitor link
- RRPP
- VRRP
- MAD

5.IP Multicast

- Multicast overview
- Multicast group management protocol
- Multicast forwarding mechanism
- Multicast routing protocols
- Multicast configuration and maintenance
- Layer 3 multicast
- Layer 2 multicast

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6.Campus Network Security Technologies

- Campus network security overview
- AAA, RADIUS, and TACACS
- Port access control
- Network access control
- SSH login management
- Port access control
- Network access control
- SSH

7.Campus Network Management and Maintenance

- Campus network maintenance and management
- NQA
- SNMP and log management
- LLDP technology
- Mirroring technology
- NTP
- Telemetry
- SNMP
- Mirroring technology

8.Large-Scale Network Routing Overview

- Enterprise network model
- Large-scale network routing technologies overview

9.Routing Basics

- Route control and forwarding
- Routing protocol basics
- Load sharing and backup of route
- Route aggregation and CI
- Static ECMP and floating static routes configuration

10. OSPF

- Basic principles of OSPF
- OSPF configuration and optimization
- Configurations of advanced OSPF feature
- Basic configurations of OSPF
- Route aggregation of OSPF
- Stub area and NSSA area configurations of OSPF
- Virtual link and authentication configurations of OSP

11. IS-IS

- Basic concepts of IS-IS
- Protocol principles of IS-IS
- Configurations of IS-IS
- Basic configurations of IS-IS
- Multi-area configuration of IS-IS

12. IGP Route Control

- Route filtering
- Routing policy
- Route import
- PBR
- Using the filter-policy to filter IGP routes
- Using the route-policy to filter IGP routes
- Using PBR to implement policy routing

13. BGP

- Basic principles of BGP
- Basic configurations of BGP
- BGP route control
- Configurations of BGP enhancement
- Configurations of BGP integrating
- Basic configurations of BGP
- Route attributes of BGP
- Route filtering of BGP
- Route aggregation and reflection of BGP

14. IPv6 Technologies

- IPv6 peer discovery
- IPv6 routing protocols
- IPv6 transition technology
- SRv6 technologies
- Basic configurations of ND
- IPv6 routing protocols
- IPv6 transition technologies

15. Secure Optimized WAN Overview

- Enterprise network model
- Remote network connection requirements

16. Broadband Access Technologies

- Broadband access technologies overview
- IPoE
- EPON

17. Conventional VPN Technologies

- VPN overview
- GRE VPN
- L2TP VPN
- Configurations of GRE VPN
- Configurations of L2TP VPN

18. Secure VPN Technologies

- Basic technologies of data security
- Basic principles of IPsec
- Configurations and applications of IPsec
- SSL VPN
- Basic configurations of IPsec VPN
- configurations, IPsec protection, and traditional VPN data

19. BGP/MPLS VPN

- Basic technologies of MPLS
- Basic principles of BGP MPLS VPN
- Configurations and troubleshooting of BGP MPLS VPN
- Cross-domain technology of BGP MPLS VPN
- Basics of BGP MPLS VPN

20. Enhanced Network Security

- Network security overview
- Service isolation
- Access control
- Authentication and authorization
- Transmission security
- Security defense

21. Quality of Service (QoS)

- QoS overview
- Configurations of QoS boundary behavior
- Basic congestion management mechanism
- Configurations of congestion avoidance mechanism
- Advanced QoS management tool
- Link validity enhancement mechanism
- Configurations of traffic policing
- Configurations of congestion management

22. VXLAN Technologies

- Introduction to VXLAN technologies
- Working principles of VXLAN
- Networking optimization of VXLAN
- Basic configurations and networking applications of VXLA

23. EVPN Technologies

- Introduction to EVPN technologies
- Technical principles of EVPN
- Control plane of EVPN
- Forwarding plane of EVPN
- Troubleshooting of EVP

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