

Linux Pathshala



Cisco Certified Network Professional (CCNP) Switching

- Implement VLAN based solution, given a network design and a set of requirements
 - Determine network resources needed for implementing a VLAN based solution on a network
 - o Create a VLAN based implementation plan
 - o Create a VLAN based verification plan
 - o Configure switch-to-switch connectivity for the VLAN based solution
 - o Configure loop prevention for the VLAN based solution
 - Configure Access Ports for the VLAN based solution
 - erify the VLAN based solution was implemented properly using show and debug commands
 - o Document results of VLAN implementation and verification



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• Implement a Security Extension of a Layer 2 solution, given a network design and a set of requirements

- o Determine network resources needed for implementing a Security solution
- o Create a implementation plan for the Security solution
- o Create a verification plan for the Security solution
- Configure port security features
- Configure general switch security features
- o Configure private VLANs Configure VACL and PACL
- Verify the Security based solution was implemented properly using show and debug commands
- o Document results of Security implementation and verification

• Implement Switch based Layer 3 services, given a network design and a set of requirements o

Determine network resources needed for implementing a Switch based Layer 3 solution of Create an implementation plan for the Switch based Layer 3 solution

- o Create a verification plan for the Switch based Layer 3 solution
- Configure routing interfaces Configure Layer 3 Security
- Verify the Switch based Layer 3 solution was implemented properly using show and debug commands
- Document results of Switch based Layer 3 implementation and verification

• Prepare infrastructure to support advanced services

- o Implement a Wireless Extension of a Layer 2 solution
- Implement a VoIP support solution
- o Implement video support solution

Implement High Availability, given a network design and a set of requirements

- Determine network resources needed for implementing High Availability on a network
- o Create a High Availability implementation plan
- o Create a High Availability verification plan
- Implement first hop redundancy protocols
- Implement switch supervisor redundancy
- Verify High Availability solution was implemented properly using show and debug commands
- o Document results of High Availability implementation and verification