

Cisco Certified Network Professional

Implementing Cisco IP Switched Networks

1. Implement VLAN based solution, given a network design and a set of requirements
2. Determine network resources needed for implementing a VLAN based solution on a network
3. Create a VLAN based implementation plan
4. Create a VLAN based verification plan
5. Configure switch-to-switch connectivity for the VLAN based solution
6. Configure loop prevention for the VLAN based solution
7. Configure Access Ports for the VLAN based solution
8. Verify the VLAN based solution was implemented properly using show and debug commands
9. Document the verification after implementing a VLAN solution
10. Implement a Security Extension of a Layer 2 solution, given a network design and a set of requirements
11. Determine network resources needed for implementing a Security solution
12. Create a implementation plan for the Security solution
13. Create a verification plan for the Security solution
14. Configure port security features
15. Configure general switch security features
16. Configure private VLANs
17. Configure VACL and PACL
18. Verify the Security based solution was implemented properly using show and debug commands
19. Document the verification results after implementing a Security solution
20. Implement Switch based Layer 3 services, given a network design and a set of requirements
21. Determine network resources needed for implementing a Switch based Layer 3 solution
22. Create an implementation plan for the Switch based Layer 3 solution
23. Create a verification plan for the Switch based Layer 3 solution
24. Configure routing interfaces
25. Configure Layer 3 Security
26. Verify the Switch based Layer 3 solution was implemented properly using show and debug commands
27. Document the verification results after implementing a Switch based Layer 3 solution
28. Prepare infrastructure to support advanced services
29. Implement a Wireless Extension of a Layer 2 solution
30. Implement a VoIP support solution
31. Implement video support solution
32. Implement High Availability, given a network design and a set of requirements

33. Determine network resources needed for implementing High Availability on a network
34. Create a High Availability implementation plan
35. Create a High Availability verification plan
36. Implement first hop redundancy protocols
37. Implement switch supervisor redundancy
38. Verify High Availability solution was implemented properly using show and debug commands
39. Document results of High Availability implementation and verification

