

Building Cisco Multilayer Switched Networks

Defining VLANs

- Implementing Best Practices for VLAN Topologies
- Implementing VLANs
- Implementing Trunks
- Propagating VLAN Configuration with VTP
- Correcting Common VLAN Configuration Errors
- Lab: Configuring VLANs and VTP

Implementing Spanning Tree

- Describing the STP
- Lab: Configuring Primary and Backup Root Bridges
- Implementing RSTP
- Lab: Implementing Rapid Spanning Tree Protocol
- Implementing MSTP
- Lab: Implementing Multiple Spanning Tree
- Configuring Link Aggregation with EtherChannel
- Lab: Configuring EtherChannel
- Lab: Troubleshooting Spanning Tree

Implementing Inter-VLAN Routing

- Describing Routing Between VLANs
- Enabling Routing Between VLANs on a Multilayer Switch
- Deploying CEF-Based Multilayer Switching
- Lab: Routing Between VLANs

Implementing High Availability in a Campus Environment

- Configuring Layer 3 Redundancy with HSRP
- Optimizing HSRP
- Configuring Layer 3 Redundancy with VRRP and GLBP
- Lab: Enabling and Optimizing HSRP

Wireless LANs

- Introducing Wireless LANs
- Describing Wireless LAN Topologies
- Explaining Wireless LAN Technology and Standards
- Lab: Configuring Switches for WLANs
- Configuring Cisco WLAN Clients
- Lab: Configuring a Wireless Client (Optional)
- Implementing Wireless LANs
- Configuring Wireless LANs
- Lab: Setting up the Wireless LAN Controller
- Lab: Configuring the Controller via the Web Browser

Configuring Campus Switches to Support Voice

- Planning for Implementation of Voice in a Campus Network
- Accommodating Voice Traffic on Campus Switches
- Lab: Configuring IP Telephony Support

Minimizing Service Loss and Data Theft in a Campus Network

- Understanding Switch Security Issues
- Protecting Against VLAN Attacks
- Protecting Against Spoof Attacks
- Describing STP Security Mechanisms
- Describing STP Security Mechanisms
- Securing Network Switches
- Lab: Applying Security Tools