Cisco Troubleshooting and Maintaining (CCNP TSHOOT), Part 2 of 5: Apps and Switched Solutions

Meet the expert: Robert has more than 20 years of expertise in the fields of >sophisticated networking, information, and telecommunication technologies. He has

worked as an Information Technology Consultant and Instructor, consulting and

training in the networking realm of the IT Industry throughout Europe and USA since

2005. Clients include the United States Military, Mercedes Benz, Deutsche Telekom,

and Diversion German Government Entities.

Prerequisites: This is part 2 of the series.

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Course description: This course helps prepare for the CCNP TSHOOT exam. it's recommended to take CCNP ROUTE and CCNP SWITCH courses to have an understanding before this course. This course discuses using maintenance and troubleshooting tools in applications as well as in on campus solutions.

Course outline:

Using Tools and Applications
- Introduction
- IOS show Commands
- IOS show Commands Continued
- Testing Network Connectivity
- Ping Results Characters
- Testing Network Connectivity Continued
- Collecting Real-time Information
- Diagnosing Hardware Issues
- Additional Hardware Commands and Tools
- Using Traffic Capturing Tools
- Using Traffic Capturing Tools Continued
- Gathering Information with SNMP
- Gathering Information with NetFlow
- SNMP and NetFlow Comparison
- Enabling Network Event Notification
- EEM
- Demo: show ip route
- Summary

Campus Switched Solutions
- Introduction
- LAN Switch Operation
- LAN Switch Operation Continued
- Verifying Layer 2 Forwarding
- Spanning Tree Operation
- Spanning Tree Operation Continued
- Spanning Tree Failures
- EtherChannel Operation
- EtherChannel Problems
- Inter-VLAN Routing and Multilayer Switching
- Troubleshooting Routers and Multi-Layer Switches
- Troubleshooting Multi-Layer Switches
- SVIs and Routed Ports
- Multilayer Switches, VLANs, and Routing
- Routed Interfaces vs. SVIs
- Checking SVI Status
- FHRPs
- Verifying HSRP Operation
- Alternatives to HSRP
- HSRP, VRRP, and GLBP Diagnostic Commands
- Summary

Campus Switched Solutions Demo
- Introduction
- Demo: Check Connectivity
- Demo: Spanning Tree
- Demo: Spanning Tree Interfaces
- Demo: HSRP
- Demo: HSRP Continued
- Demo: Verification and Troubleshooting
- Summary