

Cisco IP Switched Networks (CCNP Switch), Part 3 of 7: Spanning Tree

page 1

Meet the expert: As a certified Microsoft Instructor, Ken has focused his career on various security aspects of computer and network technology since the early 1980s. He has offered a wide variety of IT training and high level consulting projects for Fortune 500 companies globally. Through the course of his extensive career, he has taught a full line of Microsoft, CompTIA, Cisco, and other high level IT Security curricula.

Prerequisites: This is part 3 in the series.

Runtime: 02:15:25

Course description: This course discusses the options of spanning tree and what is happening when switches talk to each other to create a loop free topology.

Course outline:

Spanning Tree

- Introduction
- Types of STP
- STP Operation eNotes
- BPDU eNotes
- Summary

Root Bridge

- Introduction
- BPDU Types
- Electing the Root Bridge
- Root Bridge eNotes
- STP Transition States
- Summary

PVST

- Introduction
- PVST
- Demo: Per-VLAN Spanning Tree
- Demo: VTP and Trunking
- Demo: Change Root Bridge
- Influencing the Root Bridge Election
- Summary

Cost and Priority

- Introduction
- Changing Cost and Priority eNotes
- Manipulate a Path
- Demo: Cost and Priority
- Convergence Time
- RSTP Port States
- Change of Port States
- Running RSTP
- Spanning Tree Security Overview

- Summary

UplinkFast

- Introduction
- UplinkFast eNotes
- BackboneFast eNotes
- Configure UplinkFast and BackboneFast
- PortFast and BPDU Guard eNotes
- BPDU Filter
- Root Guard
- Demo: PortFast
- Summary

Unidirectional Problems

- Introduction
- Unidirectional Problems eNotes
- Loop Guard
- Hardware Failure
- Flex Links
- Flex Links eNotes
- Multiple Spanning Tree
- MST Design eNotes
- Internal Spanning Trees
- MST and STP
- Summary
- Summary