

## Cisco CCNA (200-301)

### Describing Layer 2 Loop Prevention

Learner Objective: Describe Layer 2 Loop Prevention

Description: When multiple switches are connected for redundancy, they will form a switching loop. You will discover not only why that is but also what is that stops that loop and how in detail.

**Q: Why do we need spanning tree protocol?**

- Loop Prevention (Diagrams)

**Q: Are there different types of Spanning Tree Protocols?**

- Yes, there are several, for our purpose we're limiting this to 1 which is RSTP Rapid Spanning Tree Protocol.

**Q: How does it work?**

Diagrams.

**Endnotes, External Etc.,**

- 2.5 Describe the need for and basic operations of Rapid PVST Spanning Tree Protocol and identify basic operations
  - 2.5.a Root port, root bridge (primary/secondary), and other port names
  - 2.5.b Port states (forwarding/blocking)
  - 2.5.c PortFast benefits
- 200-301 Exam Objectives