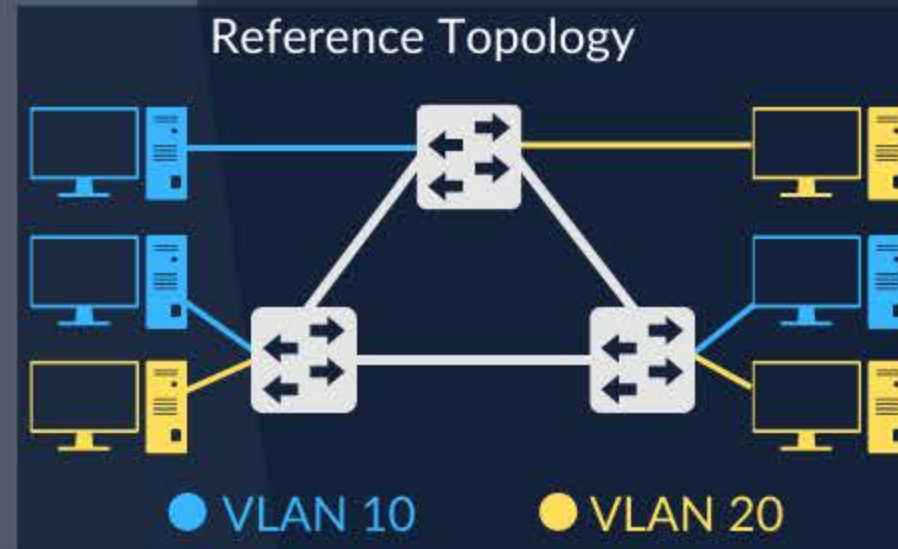# CCNA CHEAT SHEET

Per VLAN Spanning Tree Protocol

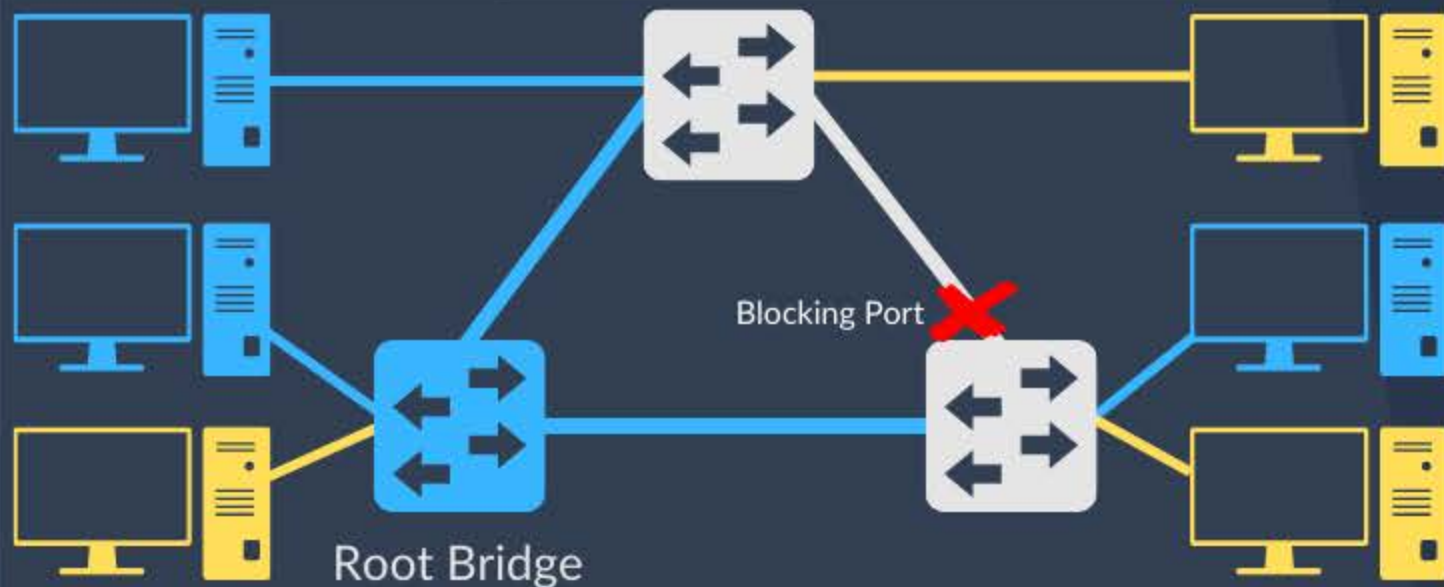### Concept

PVST+ can create different "Virtual Topologies" as each VLAN can have a different "Root Bridge"

Reference Topology

● VLAN 10   ● VLAN 20

In Practice

This creates Layer 2 load balancing which can help prevent bottle necks over utilization of LAN paths

VLAN 10 Topology

Blocking Port ✕

Root Bridge

VLAN 20 Topology

✕ Blocking Port

Root Bridge