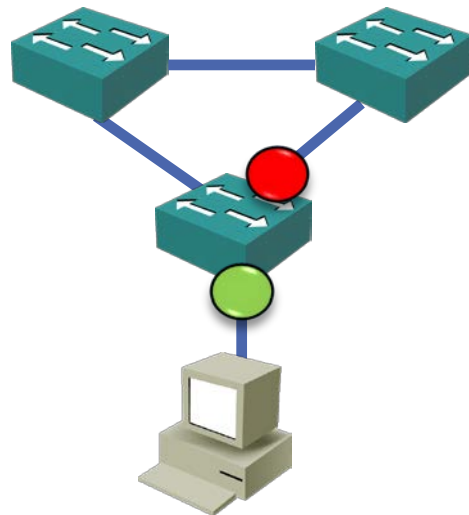


Spanning Tree Portfast

- It can take up to 50 seconds for Spanning Tree to transition a port to a forwarding state when it becomes active
- A loop cannot be formed on ports where a single end host is plugged in
- You can make the port transition to a forwarding state immediately when it becomes active by disabling Spanning Tree on the port



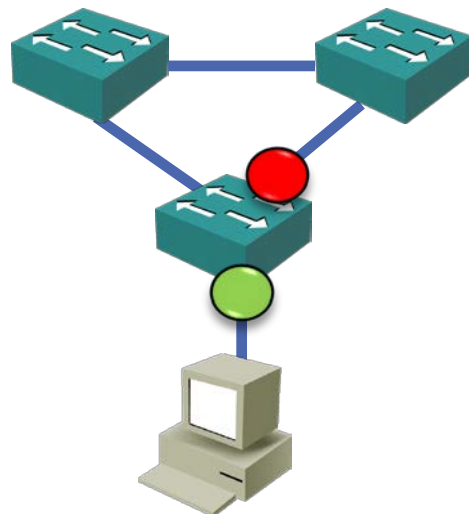
Spanning Tree Portfast



```
SW1(config)# interface f0/10
```

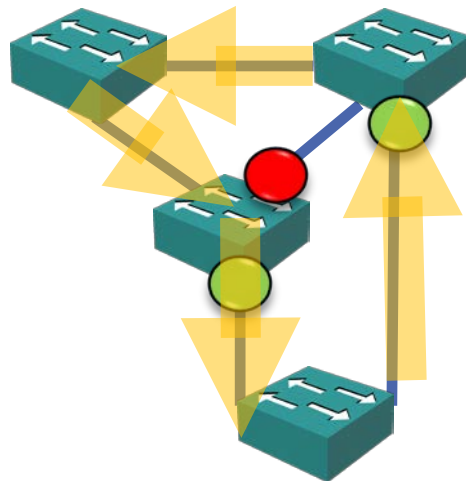
```
SW1(config-if)# spanning-tree portfast
```

```
SW1(config)# spanning-tree portfast default
```



Spanning Tree BPDUs Guard

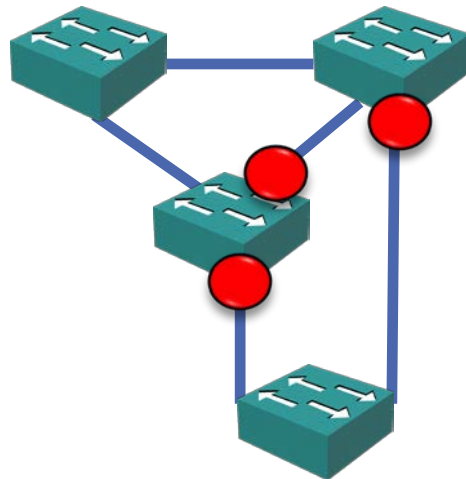
- If you enable Portfast on a port and then a loop is formed through it, a broadcast storm will result
- This can be caused by users adding devices to the network or changing cabling



Spanning Tree BPDUs Guard



- You can enable BPDUs Guard on Portfast ports to guard against this happening
- If a BPDU is received the port will be shut down



Spanning Tree BPDU Guard



```
SW1(config)# interface f0/10
```

```
SW1(config-if)# spanning-tree portfast
```

```
SW1(config-if)# spanning-tree bpduguard enable
```

```
SW1(config)# spanning-tree portfast bpduguard default
```

