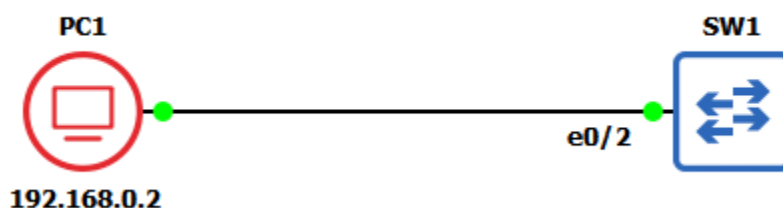


Port Fast:

- o By passing the listening & learning states, go to forwarding mode.
- o STP PortFast feature causes a port to enter forwarding state immediately.
- o Port Fast port normally connect to end devices such as server, printer or PC.
- o Do not enable portfast on an interface to another device which is hub/switch.
- o If Port Fast feature port connect to a cisco switches, it may cause a loop.
- o PVST+, Rapid PVST+, or MSTP Spanning tree all support Port Fast feature.
- o Port Fast can be enable on interface level or globally on Cisco switch.
- o When running globally its enable Portfast on interface that is edge port.



SW3 Default Interface	SW3 Enable Portfast Feature
SW1#debug spanning-tree events	SW1#debug spanning-tree events
SW1(config)#interface e0/2 SW1(config-if)#shutdown SW1(config-if)#no shutdown	SW1(config)#interface e0/2 SW1(config-if)#spanning-tree portfast SW1(config-if)#shutdown SW1(config-if)#no shutdown
SW1#show spanning-tree detail	SW1#show spanning-tree detail

By default, not enable portfast feature.

```
*Mar 30 13:26:56.530: set portid: VLAN0001 Et0/2: new port id 8003
*Mar 30 13:26:56.530: STP: VLAN0001 Et0/2 -> listening
*Mar 30 13:27:11.544: STP: VLAN0001 Et0/2 -> learning
SW3#
*Mar 30 13:27:26.552: STP[1]: Generating TC trap for port Ethernet0/2
*Mar 30 13:27:26.554: STP: VLAN0001 sent Topology Change Notice on Et0/0
*Mar 30 13:27:26.554: STP: VLAN0001 Et0/2 -> forwarding
```

After enable, spanning-tree portfast feature interface skips the listening and learning state.

```
*Mar 30 13:41:40.572: set portid: VLAN0001 Et0/2: new port id 8003
*Mar 30 13:41:40.572: STP: VLAN0001 Et0/2 -> jump to forwarding from blocking
```