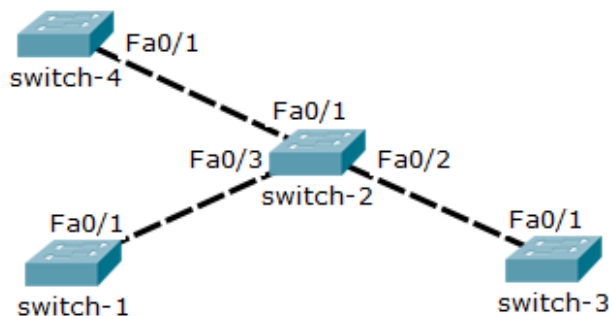


Link Layer Discovery Protocol (LLDP)

Lab Summary

Enable LLDP globally on all switches. Disable LLDP locally on switch-1 interface Fa0/1 and verify LLDP neighbor connectivity from switch-2.

Figure 1 Lab Topology



Lab Configuration

Start Packet Tracer File: **LLDP**

Switch-1

Click on the *switch-1* icon and select the *CLI* folder. Hit the <enter> key for user mode prompt (>).

Step 1: Enter global configuration mode.

```
switch-1> enable
Password: cisconet
switch-1# configure terminal
```

Step 2: Enable CDP globally on switch-1.

```
switch-1(config)# lldp run
```

Step 3: Disable LLDP locally on switch-1 interface Fa0/1.

```
switch-1(config)# interface fastethernet0/1
switch-1(config-if)# no lldp receive
switch-1(config-if)# no lldp transmit
switch-1(config-if)# end
switch-1# copy running-config startup-config
```

Switch-2

Click on the *switch-2* icon and select the *CLI* folder. Hit the <enter> key for user mode prompt (>).

Step 1: Enter global configuration mode.

```
switch-2> enable  
Password: cisconet  
switch-2# configure terminal
```

Step 2: Enable LLDP globally on switch-2.

```
switch-2(config)# lldp run  
switch-2(config)# end  
switch-2# copy running-config startup-config
```

Switch-3

Click on the *switch-3* icon and select the *CLI* folder. Hit the <enter> key for user mode prompt (>).

Step 1: Enter global configuration mode.

```
switch-3> enable  
Password: cisconet  
switch-3# configure terminal
```

Step 2: Enable LLDP globally on switch-3.

```
switch-3(config)# lldp run  
switch-3(config)# end  
switch-3# copy running-config startup-config
```

Switch-4

Click on the *switch-4* icon and select the *CLI* folder. Hit the <enter> key for user mode prompt (>).

Step 1: Enter global configuration mode.

```
switch-4> enable  
Password: cisconet  
switch-4# configure terminal
```

Step 2: Enable LLDP globally on switch-4.

```
switch-4(config)# lldp run  
switch-4(config)# end  
switch-4# copy running-config startup-config
```

Verify Lab

Click on Fast Forward 2-3 times so that Packet Tracer is updated for network convergence.

The following command lists all neighbors of switch-2 and the local interface. Note that LLDP was disabled on switch-1 interface Fa0/1. The result is that switch-1 is not listed as a neighbor.

```
switch-2# show lldp
```

```
switch-2# show lldp neighbors
```

Capability codes:

(R) Router, (B) Bridge, (T) Telephone, (C) DOCSIS Cable Device
(W) WLAN Access Point, (P) Repeater, (S) Station, (O) Other

Device ID	Local Intf	Hold-time	Capability	Port ID
switch-4	Fa0/1	120	B	Fa0/1
switch-3	Fa0/2	120	B	Fa0/1

Lab Notes:

LLDP is disabled globally as a default setting on Cisco devices. All supported network interfaces are disabled as well. This lab shows you how to enable LLDP initially or if it has been previously disabled. As with CDP you can select to enable or disable LLDP globally or per interface. Cisco ASA firewalls do not support LLDP for security reasons.