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Lab 10.1.2.5 - Configure CDP and LLDP

Part 2: Network Discovery with CDP

a. **How often are CDP packets sent?** Every 60 seconds.
b. **How many interfaces are participating in the CDP advertisement?** 4 interface. **Which interfaces are up?** GigabitEthernet0/0/1 and Serial0/1/1.
c. **What can you learn about ISP and S3 from the outputs of the show cdp neighbors detail command?** To which interface there is a connection and the capabilities of the device.
d. **Which command(s) would you use to verify that CDP has been disabled?** show cdp.
e. **Enable CDP globally on Gateway. How many interfaces are CDP enabled? Which interfaces are CDP disabled?** GigabitEtherneo0/0/1 and Serial0/1/1

```
Gateway#show cdp interface
Vlan1 is administratively down, line protocol is down
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds
GigabitEthernet0/0/0 is administratively down, line protocol is down
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds
GigabitEthernet0/0/1 is up, line protocol is up
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds
Serial0/1/0 is administratively down, line protocol is down
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds
Serial0/1/1 is up, line protocol is up
  Sending CDP packets every 60 seconds
  Holdtime is 180 seconds
```

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Part 3: Network Discovery with LLDP

a. **Issue the show lldp neighbors command. Which devices are neighbors to Gateway?** Switch 3 with G0/0/1

```
Gateway#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
S3                  Gig0/0/1       120        B               Gig0/1

Total entries displayed: 1
```

b. **What port is used on S3 to connect to the Gateway router?** Port Gig0/1.

c. **Use the show command outputs from CDP and LLDP to document the connected ports in the network topology.**

```
Gateway#show cdp neighbors
Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
                  S ├- Switch, H - Host, I - IGMP, r - Repeater, P - Phone
Device ID    Local Intrfce   Holdtme    Capability   Platform    Port ID
S3           Gig 0/0/1       160           S       2960        Gig 0/1
Gateway#show ll
Gateway#show lldp ne
Gateway#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
S3                  Gig0/0/1       120        B               Gig0/1

Total entries displayed: 1
```

Reflection

Within a network, on which interfaces should you not use discovery protocols? On interfaces that are facing the external network because these protocols provide details about the internal network. This information allows attackers to gain valuable information about the internal network.