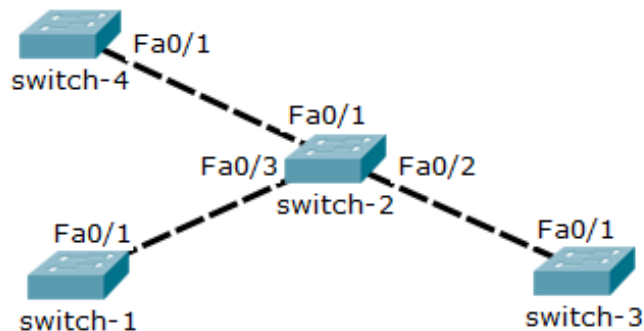# Cisco Discovery Protocol (CDP)

Lab Summary

Enable CDP globally on switch-1, switch-2 and switch-3. Disable CDP locally on switch-4 interface Fa0/1. Verify CDP switch neighbor connectivity from switch-2.

Figure 1 Lab Topology

Lab Configuration

Start Packet Tracer File: **CDP**

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)# **cdp run**
> switch-1(config)# **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 CDP globally on switch-2.

> switch-2(config)# **cdp 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 CDP globally on switch-3.

> switch-3(config)# **cdp 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 CDP globally on switch-4 and disable CDP locally on switch interface Fa0/1.

    switch-4(config)# **cdp run**
    switch-4(config)# **interface fastethernet0/1**
    switch-4(config-if)# **no cdp enable**
    switch-4(config-if)# **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 CDP was disabled on switch-4 interface Fa0/1 and not listed.

    switch-2# **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
switch-1	Fas 0/3	121	S	2960	Fas 0/1
switch-3	Fas 0/2	147	S	2960	Fas 0/1

Lab Notes:

CDP is enabled globally as a default setting on Cisco devices. All supported network interfaces are enabled as a result as well. This lab shows you how to reenable CDP when it has been disabled. You cannot enable CDP on an interface unless it is enabled globally as well. Cisco ASA firewalls do not support CDP for security reasons.