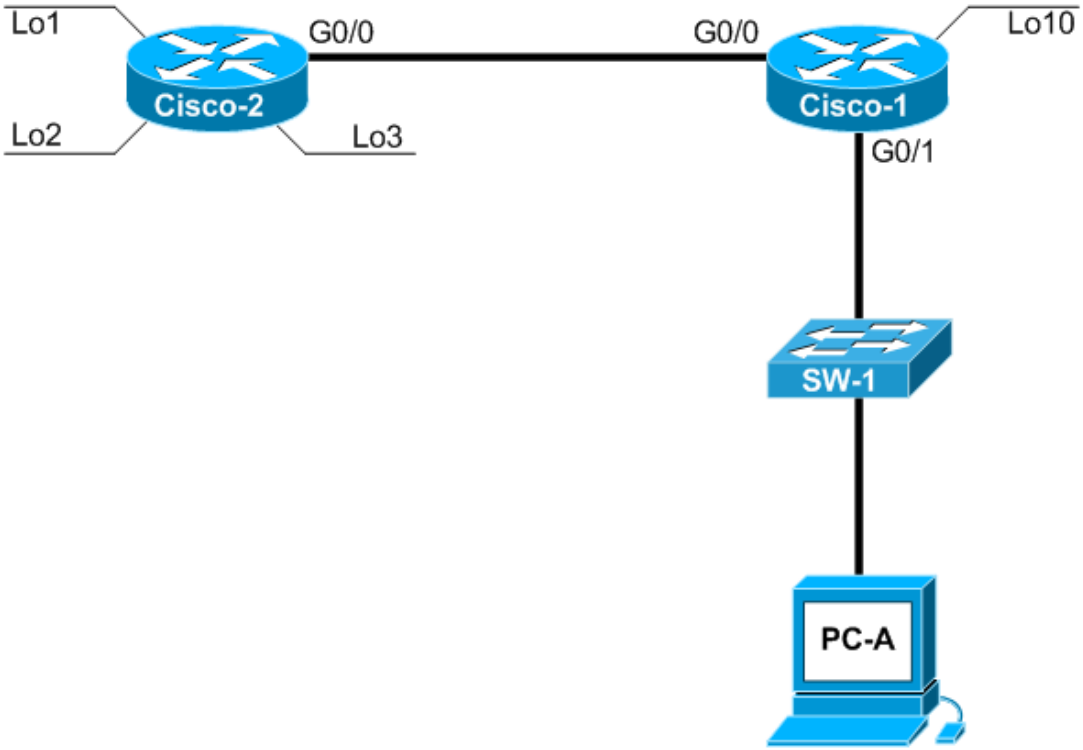
Topology



Note:

1) The routers in the topology above are **2901**s and the switch is a **2960** (Layer 2 switch)
2) The 1 switch is a 2960, there is "**NO**" Configuration to be done on the switch, **BUT** it must be clean!
3) For the In-House students, you will be working by yourself this week, there is enough equipment in the pods for 3 students per row to work by yourself.
4) For the On-Line students, you will have to build the lab in Packet Tracer.
5) You will find in the Lab section of FOL for this week a PowerPoint file. Please download this file, I have placed markers in the lab where you should do each capture. Make the screen captures and save them in the PowerPoint file according to the questions asked.

IPV4 Addressing Table

Device	interface	IP Address	Subnet Mask	Default Gateway
Cisco-1	G0/0	172.16.1.22	/30	
	G0/1	172.16.1.62	/27	
	Lo10	10.10.10.1	/24	
Cisco-2	G0/0	172.16.1.21	/30	
	Lo1	192.168.1.1	/24	
	Lo2	192.168.2.1	/24	
	Lo3	192.168.3.1	/30	
SW-1				
PC-A		172.16.1.33	/27	172.16.1.62

Initial Setup

I would like to see each device with the following:

Basic system config:

a) The time set on your devices (both the clock and the time zone).
b) Set the hostname
c) Set the enable password to “class”.
d) Encrypt all passwords.
e) Disable domain name lookup.
f) Setup a banner.
g) Set the console and vty password to “cisco”.
h) Setup synchronous logging on the console port.
i) Enable telnet and ssh on the vty ports

Setup the Network

j) Setup the IP addressing on the ports of the devices according to the “Addressing Table”.
    a. Look for scripts on FOL for cisco-1.txt, and cisco-2.txt, for the base configs.
k) Setup the OSPF routing to work on the devices according to the “Addressing Table”.
    a. Process ID of 10
    b. **network** lines for each interface for that device, all networks in **area** of **42**
    c. router id
        i. Cisco-1 will be 1.1.1.1
        ii. Cisco-2 will be 2.2.2.2

At this point in the configuration, you should be able to, from PC-A, ping the default gateway of PC-A (Cisco-1) and the local loopback interfaces on Cisco-2 (Lo1, Lo2, Lo3).
If you can not do the pings above, **DO NOT GO ON WITH THE LAB!**
You must complete steps “a” through “k” and be able to do the pings above before moving on with the lab.

(PowerPoint – Capture 1)

(PowerPoint – Capture 2)

l) Create a **SIMPLE/STANDARD** **one line** access list
- 1 That will allow the "PC-A" to ping the Cisco-2 router
- 2 Will **not** allow the "PC-A" to telnet to the Cisco-2 router
- 3 Will allow the "PC-A" to telnet to the Cisco-1 and then from Cisco-1 telnet to Cisco-2

- 4 Assign the access list to the appropriate place

Once you think you have this completed:

(PowerPoint – Capture 3)

(PowerPoint – Capture 4)

(PowerPoint – Capture 5)

That's it for today.

Clean out the configurations on the switches and routers you used this week.
Don't forget to collect your cables.
Then cleanup your workstations