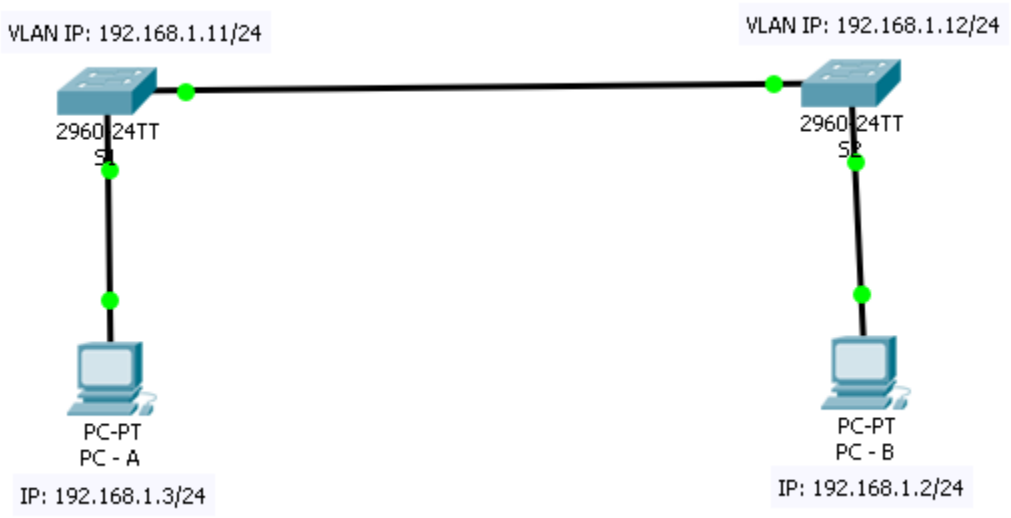
CCNA Sem01 Lab#03

Lab03 Topology



Addressing Table

Device	Interface	IP Address	Subnet Mask	Default Gateway
S1	VLAN 1	192.168.1.11	255.255.255.0	N/A
S2	VLAN 1	192.168.1.12	255.255.255.0	N/A
PC-A	NIC	192.168.1.3	255.255.255.0	N/A
PC-B	NIC	192.168.1.2	255.255.255.0	N/A

Setup topology

Step 1: Connect PC-A to the switch S1.

1- Establish a copper straight-through connection to the S1(Fa0/1) from PC-A(Fa0) (Select straight-through Cable from connections in Cisco Packet Tracer).

Step 2: Connect PC-B to the switch S2.

1- Establish a copper straight-through connection to the S2(Fa0/1) from PC-B(Fa0) (Select straight-through Cable from connections in Cisco Packet Tracer).

Step 3: Connect the switch S1 to the switch S2.

1- Establish a copper straight-through connection to the S2(Gig0/1) from S1(Gig0/1) (Select straight-through Cable from connections in Cisco Packet Tracer).

Step 4: Configure PCs

1- Set IP for PC-A (Desktop -> IP configuration)

a. IP address: 192.168.1.3
b. Subnet Mask: 255.255.255.0

2- Set IP for PC-B (Desktop -> IP configuration)
a. IP address: 192.168.1.2
b. Subnet Mask: 255.255.255.0

Step 5: Enter privileged EXEC mode.

You can access all switch commands in privileged EXEC mode.
Enter privileged EXEC mode by entering the **enable** command.

```
1. Switch> enable
2. Switch#
```

The prompt changed from **Switch>** to **Switch#** which indicates privileged EXEC mode.

Step 6: Enter configuration mode.

Use the **configuration terminal** command to enter configuration mode.

```
1. Switch# configure terminal
2. Switch(config)#
```

The prompt changed to reflect global configuration mode.

Step 7: Set a password on the privileged EXEC mode of the both switches

Encrypted, limits access to the privileged EXEC mode of the **Switch**

```
1. Switch(config)# enable secret cisco
```

Step 8: Set IPs for VLANs of the Switches.

Change hostname for the **switch S1**

```
1. Switch(config)# hostname S1
2. S1(config)#
```

Change hostname for the **switch S2**

```
1. Switch(config)# hostname S2
2. S2(config)#
```

Step 9: Set IPs for VLANs of the Switches.

Switch S1:

```
1. S1(config)# interface vlan 1
2. S1(config-if)# ip address 192.168.1.11 255.255.255.0
3. S1(config-if)# no shutdown
4. S1(config-if)# exit
5. S1(config)#
```

Switch S2:

```
1. S2(config)# interface vlan 1
2. S2(config-if)# ip address 192.168.1.12 255.255.255.0
3. S2(config-if)# no shutdown
4. S2(config-if)# exit
5. S2(config)#
```

Show interfaces status:

```
1. S1# show ip interface brief
2. S2# show ip interface brief
```

Step 10: Configure the switches via Telnet

Switch S1:

```
1. S1(config)# line vty 0 4
2. S1(config-line)# password cisco
3. S1(config-line)# login
4. S1(config-line)# exit
```

Switch S2:

```
1. S2(config)# line vty 0 4
2. S2(config-line)# password cisco
3. S2(config-line)# login
4. S2(config-line)# exit
```

Access switches via Telnet from PCs:

1- Open CMD of the PC-A (Desktop -> Command prompt)

   a. **telnet** 192.168.1.11
      User access verification
      Password: cisco
      S1>

2- Open CMD of the PC-B (Desktop -> Command prompt)

   a. **telnet** 192.168.1.12
      User access verification
      Password: cisco
      S2>

Step 11: Encrypting Password Display

Switch S1:

```
1. S1(config)# service password-encryption
2. S1(config)# exit
```

Switch S2:

```
1. S2(config)# service password-encryption
2. S2(config)# exit
```

Step 12: Save running configuration

Switch S1:

```
1. S1 # copy running-config startup-config.
```

Switch S2:

```
1. S2 # copy running-config startup-config.
```