UID	2019230064
Name	Afaan Ansari
Batch	A [TE Comps]
Subject	DCCN

Experiment: 4

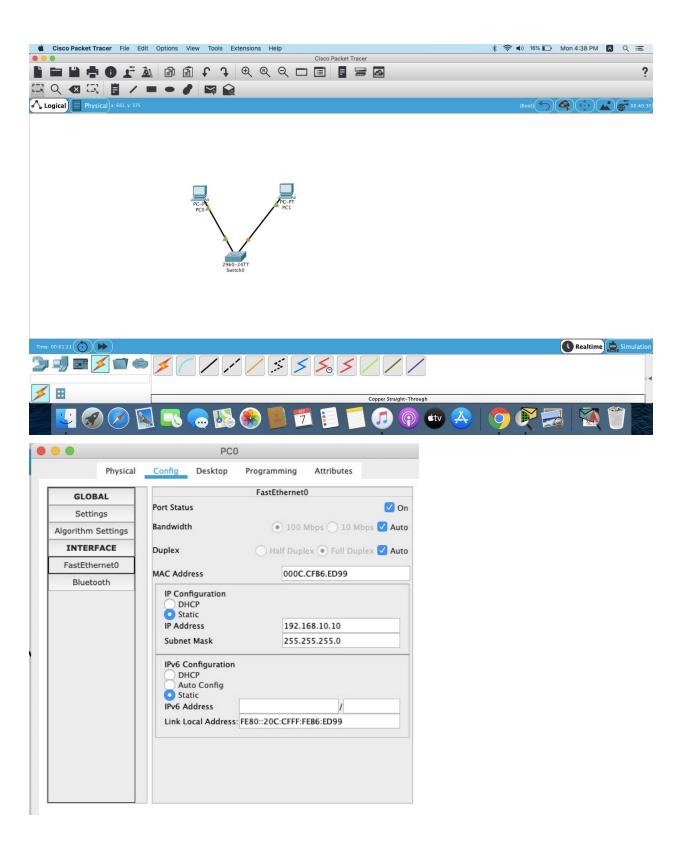
AIM: Prototype a network using Packet Tracer

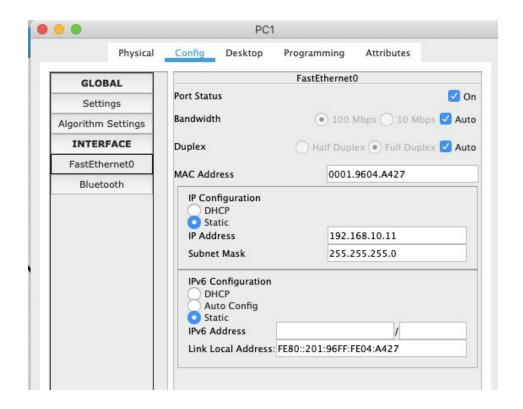
Theory:

CEL 51, DCCN, Monsoon 2020 Lab 4: Prototyping a Network

Step 1: Set up the network topology

- a) Add two PCs and a Cisco 2950T switch
- b) Using straight-through cables, connect PC0 to interface Fa0/1 on Switch0 and PC1 to interface Fa0/2 on Switch0.
- c) Configure PC0 using the Config tab in the PC0 configuration window:
- a. IP address: 192.168.10.10
- b. Subnet Mask 255.255.255.0
- d) Configure PC1 using the Config tab in the PC1 configuration window
- a. IP address: 192.168.10.11
- b. Subnet Mask 255.255.255.0





Step 2: Test connectivity from PC0 to PC1

- a) Use the ping command to test connectivity.
- a. Click PC0.
- b. Choose the Desktop tab.
- c. Choose Command Prompt.
- d. Type: ping 192.168.10.11 and press enter.
- b) A successful ping indicates the network was configured correctly and the prototype validates the hardware and software configurations. A successful ping should resemble the below output:
- c) Close the configuration window.
- d) Click the Check Results button at the bottom of the instruction window to check your work..

```
Packet Tracer PC Command Line 1.0
C:\>ping 192.168.10.11
Pinging 192.168.10.11 with 32 bytes of data:

Reply from 192.168.10.11: bytes=32 time=2ms TTL=128
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Reply from 192.168.10.11: bytes=32 time<1ms TTL=128
Ping statistics for 192.168.10.11:

Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:

Minimum = 0ms, Maximum = 2ms, Average = 0ms
C:\>
```

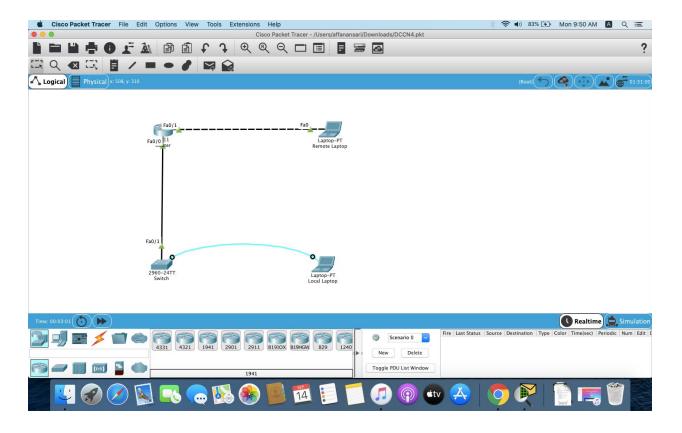
Activity Results

Congratulations Guest! You completed the activity.

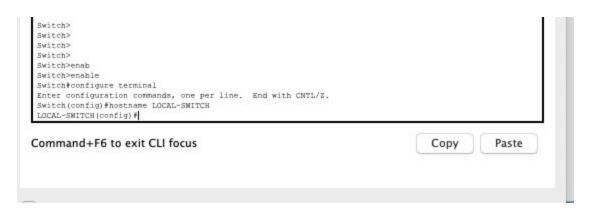
Congratulations on completing this activity!

CEL51, DCCN, Monsoon 2020

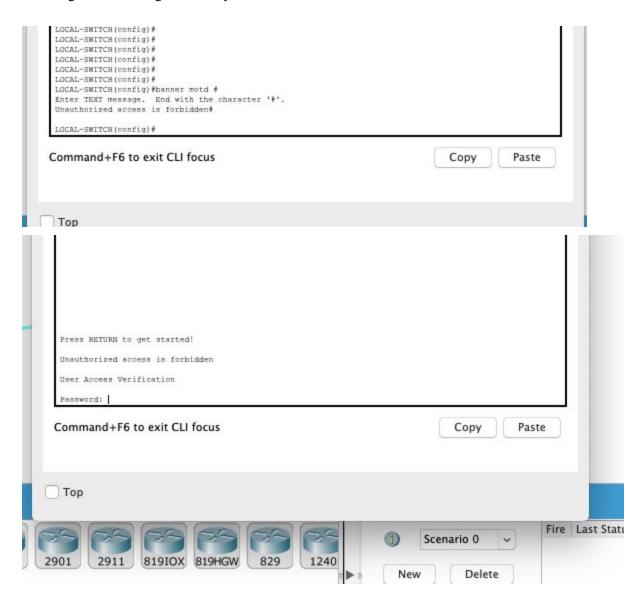
Lab 4.1: Basic configuration - hostname, motd banner, passwd etc



- 1. Use the local laptop connect to the switch console.
- 2. Configure Switch hostname as LOCAL-SWITCH



3. Configure the message of the day as "Unauthorized access is forbidden"



4. Configure the password for privileged mode access as "cisco". The password must be md5 encrypted

```
LOCAL-SMITCH (config) #
COCAL-SMITCH (config) #

Command+F6 to exit CLI focus

Copy

Paste
```

5. Configure password encryption on the switch using the global configuration command

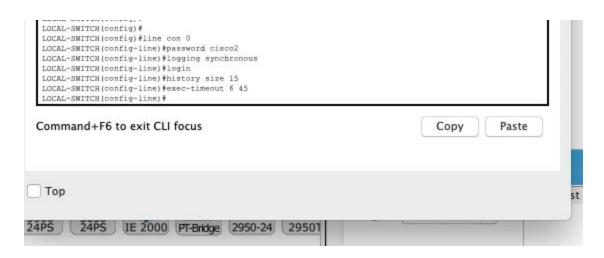
```
LOCAL-SMITCH#enable
LOCAL-SMITCH#configure term
LOCAL-SMITCH#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
LOCAL-SMITCH(config) #service password-encryption
LOCAL-SMITCH(config) #
LOCAL-SMITCH(config) #
LOCAL-SMITCH(config) #
LOCAL-SMITCH(config) #
LOCAL-SMITCH(config) #
COCAL-SMITCH(config) #
COCAL-SMITCH(config) #
```

6. Configure CONSOLE access with the following settings: -

Login enabled -

Password : whatever you like -History size : 15 commands -

Timeout : 6'45" Synchronous logging

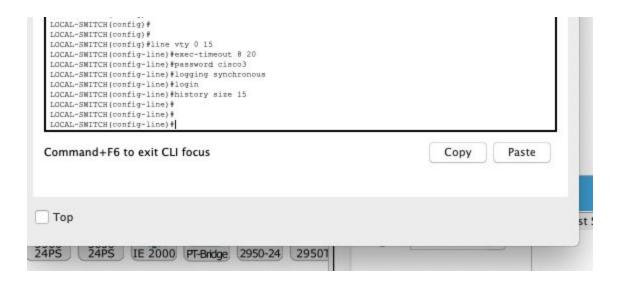


6. Configure TELNET access with the following settings: -

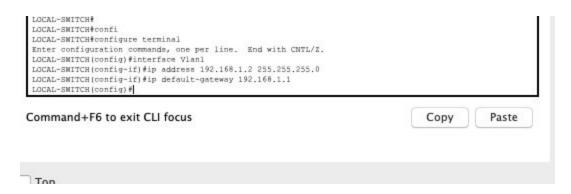
Login enabled -

Password : whatever you like -History size : 15 commands -

Timeout : 8'20" - Synchronous logging



7. Configure the IP address of the switch as 192.168.1.2/24 and it's default gateway IP (192.168.1.1).



8. Test telnet connectivity from the Remote Laptop using the telnet client.

