**Lab 1 (Router Configuration)**

**Devices:**

**End Devices ⨠ PC**

1. PC-PT PC0
2. PC-PT PC1
3. PC-PT PC2
4. PC-PT PC3

**Connections ⨠ Connections**

1. Copper Straight-Through

**Network Devices ⨠ Switches**

1. 2950-24 Switch0
2. 2950-24 Switch1

**Network Devices ⨠ Routers**

1. 1841 Router0

**Step:**

1. Connect between PC-PT PC0 (FastEthernet0) **⨠** 2950-24 Switch0 (FastEthernet0/1) via Copper Straight-Through
2. Connect between PC-PT PC1 (FastEthernet0) **⨠** 2950-24 Switch0 (FastEthernet0/2) via Copper Straight-Through
3. Connect between PC-PT PC2 (FastEthernet0) **⨠** 2950-24 Switch1 (FastEthernet0/1) via Copper Straight-Through
4. Connect between PC-PT PC3 (FastEthernet0) **⨠** 2950-24 Switch1 (FastEthernet0/2) via Copper Straight-Through
5. Connect between 2950-24 Switch0 (FastEthernet0/3) **⨠** 2950-24 Switch1 (FastEthernet0/0) via Copper Straight-Through
6. Connect between 2950-24 Switch1 (FastEthernet0/3) **⨠** 2950-24 Switch1 (FastEthernet0/1) via Copper Straight-Through

**Config PC-PT:**

|  |  |
| --- | --- |
| **PC-PT PC0**  **Go to Config ⨠ Settings**  Gateway/DNS IPv4  Static  Default Gateway: **192.168.0.1**  **Go to Config ⨠ FastEthernet0**  IP Configuration  Static  IPv4 Address: **192.168.0.2**  Subnet Mask: [Auto] | **PC-PT PC1**  **Go to Config ⨠ Settings**  Gateway/DNS IPv4  Static  Default Gateway: **192.168.0.1**  **Go to Config ⨠ FastEthernet0**  IP Configuration  Static  IPv4 Address: **192.168.0.3**  Subnet Mask: [Auto] |
| **PC-PT PC2**  **Go to Config ⨠ Settings**  Gateway/DNS IPv4  Static  Default Gateway: **172.16.0.1**  **Go to Config ⨠ FastEthernet0**  IP Configuration  Static  IPv4 Address: **172.16.0.2**  Subnet Mask: [Auto] | **PC-PT PC3**  **Go to Config ⨠ Settings**  Gateway/DNS IPv4  Static  Default Gateway: **172.16.0.1**  **Go to Config ⨠ FastEthernet0**  IP Configuration  Static  IPv4 Address: **172.16.0.3**  Subnet Mask: [Auto] |

**Config 1841 Router:**

**--- System Configuration Dialog ---**

Would you like to enter the initial configuration dialog? [yes/no]: no

Press RETURN to get started!

Router>**enable**

Router#**configure terminal**

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#**interface FastEthernet 0/0**

Router(config-if)#**ip address 192.168.0.1 255.255.255.0**

Router(config-if)#**no shutdown**

Router(config-if)#

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

**exit**

Router#**configure terminal**

Enter configuration commands, one per line. End with CNTL/Z.

Router(config)#**interface FastEthernet 0/1**

Router(config-if)#**ip address 172.16.0.1 255.255.0.0**

Router(config-if)#**no shutdown**

Router(config-if)#

%LINK-5-CHANGED: Interface FastEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1, changed state to up

exit

Router(config)#