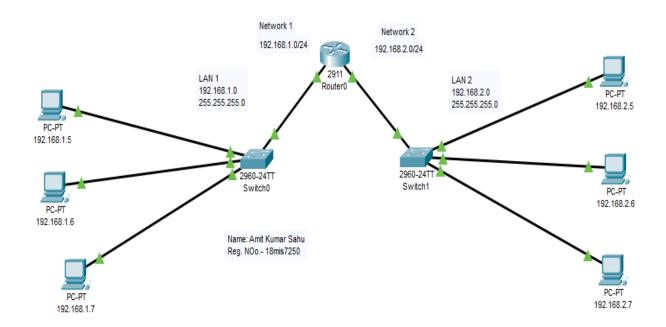
Lab - 7

Name: Amit Kumar Sahu

Reg. No: 18mis7250

1. MAN



Router>enable

Router#

Router#configure terminal

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

Router(config)#interface GigabitEthernet0/0

Router(config-if)#no ip address

Router(config-if)#ip address

% Incomplete command.

Router(config-if)#no ip address

Router(config-if)#ip address

% Incomplete command.

Router(config-if)#ip address

% Incomplete command.

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/0

Router(config-if)#no ip address

Router(config-if)#ip address 255.255.255.0

% Incomplete command.

Router(config-if)#no ip address

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/1

Router(config-if)#no ip address

Router(config-if)#

Router(config-if)#end

Router#vlan database

% Warning: It is recommended to configure VLAN from config mode, as VLAN database mode is being deprecated. Please consult user documentation for configuring VTP/VLAN in config mode.

Router(vlan)#

%SYS-5-CONFIG_I: Configured from console by console

Router(vlan)#exit

APPLY completed.

Exiting....

Router#configure terminal

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

Router(config)#interface GigabitEthernet0/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/1

Router(config-if)#ip address

% Incomplete command.

Router(config-if)#no ip address

Router(config-if)#ip address

% Incomplete command.

Router(config-if)#no ip address

Router(config-if)#no ip address

Router(config-if)#ip address

% Incomplete command.

Router(config-if)#shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to administratively down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to down

ip address 255.255.255.0

% Incomplete command.

Router(config-if)#no ip address

Router(config-if)#ip address

% Incomplete command.

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/1

Router(config-if)#no ip address

Router(config-if)#ip address 255.255.255.0

% Incomplete command.

Router(config-if)#no shutdown

Router(config-if)#

%LINK-5-CHANGED: Interface GigabitEthernet0/1, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/1, changed state to up

no ip address

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/1

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/0

Router(config-if)#

Router(config-if)#exit

Router(config)#interface GigabitEthernet0/1

Router(config-if)#

Router(config-if)#

Router#

%SYS-5-CONFIG_I: Configured from console by console

Router#interface

Translating "interface"...domain server (255.255.255.255)

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to administratively down

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to down

% Unknown command or computer name, or unable to find computer address

Router#no shutdown

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% Invalid input detected at '^' marker.

Router#

%LINK-5-CHANGED: Interface GigabitEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface GigabitEthernet0/0, changed state to up

Router#configure

Configuring from terminal, memory, or network [terminal]?

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

Router(config)#interface gigabitEthernet 0/0

Router(config-if)#ip address 192.168.1.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#exit

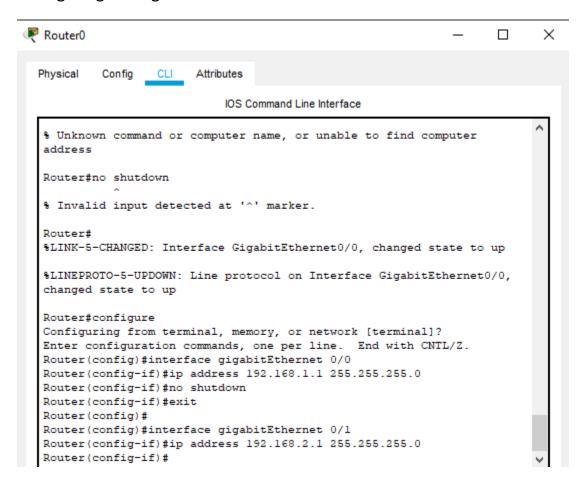
Router(config)#

Router(config)#interface gigabitEthernet 0/1

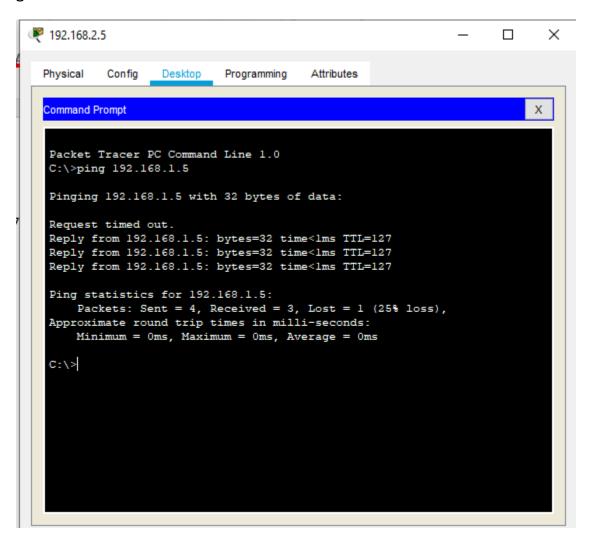
Router(config-if)#ip address 192.168.2.1 255.255.255.0

Router(config-if)#

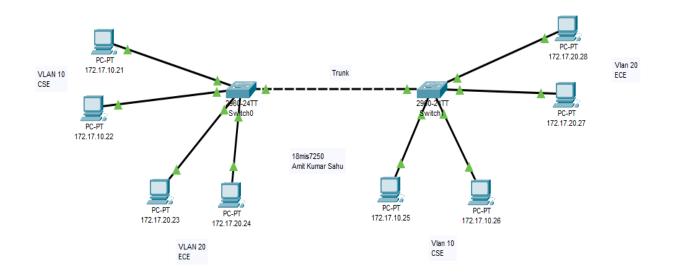
Configuring through CLI



Pinging other LAN to check whether connection is established! Successfully pinged! Connection Successful



2. VANS and Trunks



Switch>en

Switch#conf t

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

Switch(config)#vlan 10

Switch(config-vlan)#name CSE

Switch(config-vlan)#EXIT

Switch(config)#vlan 20

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

Switch(config)#vlan 20

Switch(config-vlan)#name ECE

Switch(config-vlan)#exit

Switch(config)#end

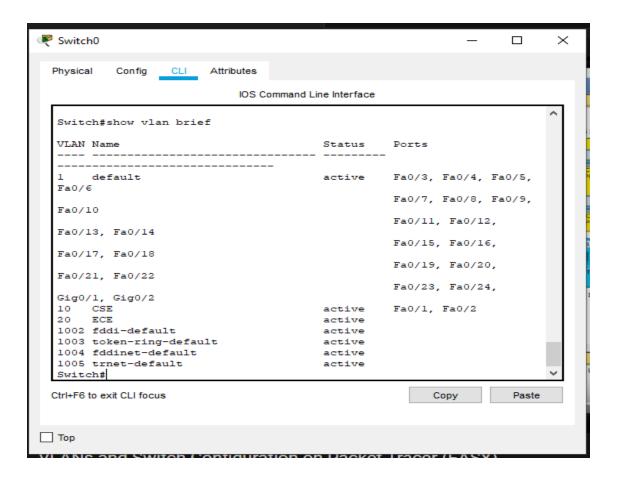
Switch(config)#interface fa0/2

Switch(config-if)#switchport mode access

Switch(config-if)#switchpor access vlan 10

Switch(config-if)#switchport access vlan 10

Switch(config-if)#end



Switch#conf t

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

Switch(config)#interface fa0/3

Switch(config-if)#switchport access vlan 20

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 20

Switch(config-if)#end

Switch#

%SYS-5-CONFIG_I: Configured from console by console

Switch#conf t

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

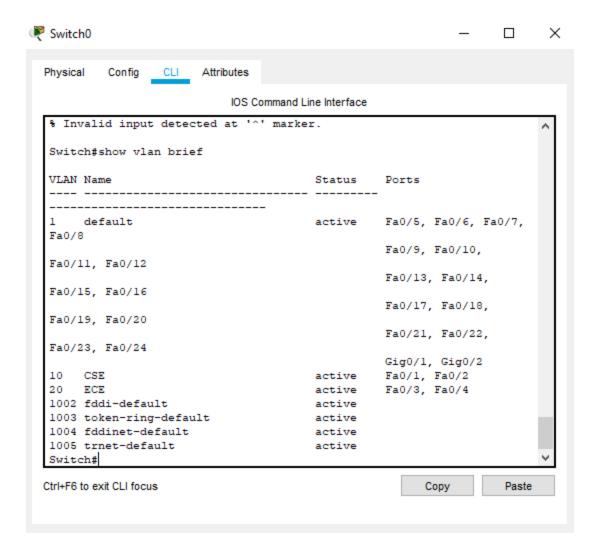
Switch(config)#interface fa0/4

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 20

Switch(config-if)#end

Switch#



Connecting both the routers via trunk

Switch#conf t

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

Switch(config)#interface fa0/5

Switch(config-if)#switchport mode trunk

Switch(config-if)#

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

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

Configuring vlan 10 and 20 in switch 2

Switch(config)#vlan 10 Switch(config-vlan)#name CSE Switch(config-vlan)#vlan 20 Switch(config-vlan)#ananame ECE Switch(config-vlan)#exit Switch(config)#interface fa fa-/2-3

% Invalid input detected at '^' marker. Switch(config)#swsinterface fa 0/2-3

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% Invalid input detected at '^' marker. Switch(config)#interface range fa0/2-3 Switch(config-if-range)#switchport mode access Switch(config-if-range)#switchport access vlan 10 Switch(config-if-range)#exit

Switch(config)#interface range fa0/4-5 Switch(config-if-range)#switchport mode access Switch(config-if-range)#switchport access vlan 20 Switch(config-if-range)#exit

Trunking switch 2 with switch 1

Switch(config)#interface fa0/1 Switch(config-if)#switchport mode trunk Switch(config-if)#end Switch#



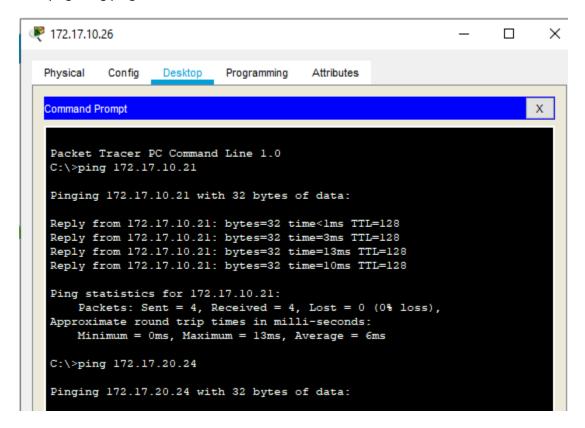
Ctrl+F6 to exit CLI focus

Config CLI Attributes Physical IOS Command Line Interface % Invalid input detected at '^' marker. Switch#show vlan brief VLAN Name Status Ports 1 default active Fa0/6, Fa0/7, Fa0/8, Fa0/9 Fa0/10, Fa0/11, Fa0/12, Fa0/13 Fa0/14, Fa0/15, Fa0/16, Fa0/17 Fa0/18, Fa0/19, Fa0/20, Fa0/21 Fa0/22, Fa0/23, Fa0/24, Gig0/1 Gig0/2 Fa0/2, Fa0/3 Fa0/4, Fa0/5 10 CSE 20 ECE active active 1002 fddi-default active 1003 token-ring-default active 1004 fddinet-default active 1005 trnet-default active Switch#

Сору

Paste

Verifying using ping



Both the vlans are working properly

