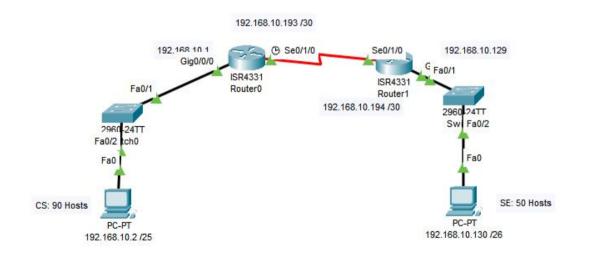


DHCP via Server Go to Services then do settings

DHCP via Router
Router(config)#ip dhcp pool hello
Router(dhcp-config)#network NETWORK_ADD SUBNET
Router(dhcp-config)#default-router ROUTER_IP
Router(dhcp-config)#dns-server DNS_IP
Router(dhcp-config)#ex
Router(config)#ip dhcp excluded-address START_IP END_IP

show ip dhcp binding

lp address of Router, first IP of PC 0 will be 192.168.2.2 unless excluded



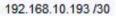
Subnet Tree

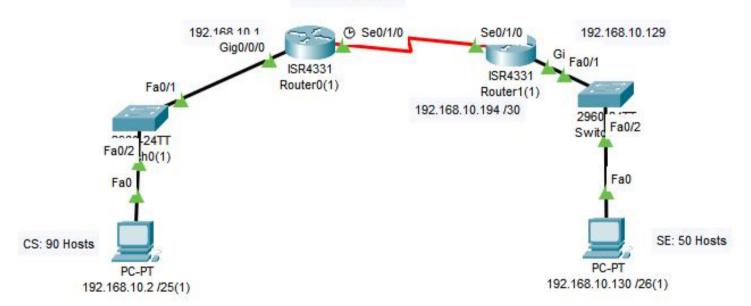
	256	255.255.255.0 /24
Make Topology	128	255.255.255.128 /25
For Serial Connection between Router add "XX-2T" component	64	255.255.255.192 /26
automatic wire		255 255 255 224 /27

Make The Table

Hosts Required	Alloc	NA	BA 0 + 2^7-1	Range	Mask 32-7
CS: 90	2^7	192.168.10.0	192.168.10.127	192.168.10.1 To 192.168.10.126	/25
SE: 50	2^6	.128	.191	129 to 190	/26
Net A	2^2	.192	.195	.193 to .194	/30

Static Routing

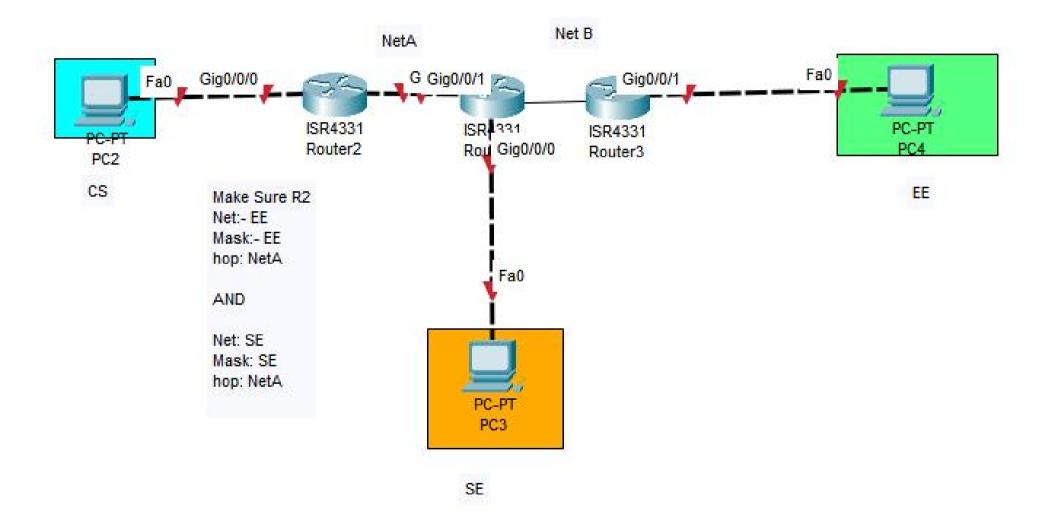


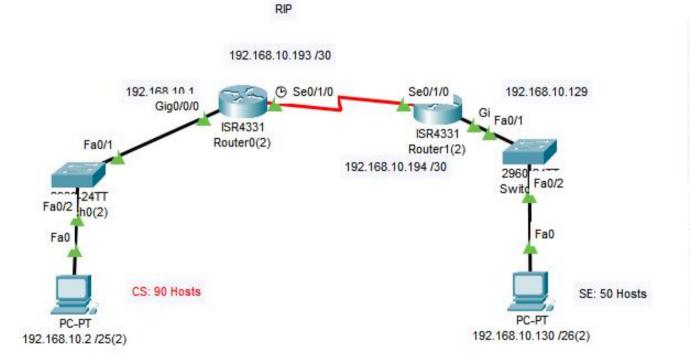


Go to R0 Static GUI

Network 192.168.10.128 Subnet /26 i.e above Network's Subnet Next Hop 192.168.10.194

Do same For R1





Rip V1: Doesn't Supports Subnetting Rip V2: Supports Subnetting

For Router 0

Router(config)#router rip Router(config-router)#version 2

remove this line for version 1

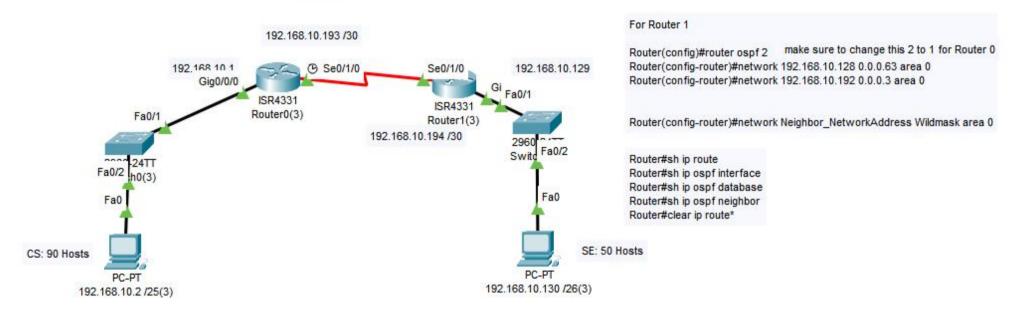
Router(config-router)#network 192.168.10.0 Router(config-router)#network 192.168.10.192 Router(config-router)#no auto-summary

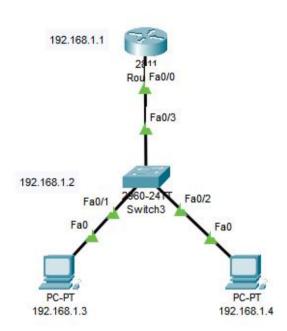
If Router(config)# do sh ip protocols

else Router# sh ip protocols

Router# sh ip route

OSPF





Make Topology

Configure Switch Switch(config)#int vlan 1 Switch(config-if)#ip address 192.168.1.2 255.255.255.0 Switch(config-if)#no sh

Switch(config)#line vty 0 15 Switch(config-line)#password cisco Switch(config-line)#login Switch(config-line)#end

Switch#config t Switch(config)#enable password cs

SSH

telnet 192.168.1.2

Go to PC cmd

Switch(config)#hostname mohsin password cisco

mohsin(config)#ip domain mohsin_k200353

mohsin(config)#ip domain name mohsin_k200353 enable mohsin(config)#crypto key generate rsa

password cs

1024

mohsin(config)#ip ssh version 2 FOR SSH ssl-ladmin 192.168.1.2 mohsin(config)#line vty 0 15

mohsin(config-line)#transport input ssh

username mohsin k200353 secret cisco

Optional line vty 0 15 ssl-I mohsin_k200353 IP login local

Copy Paste Version

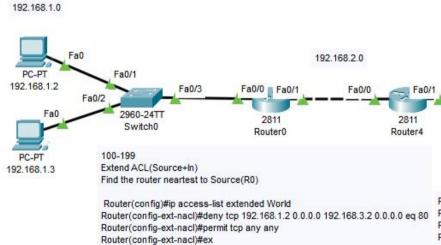
en config t int vlan 1 ip address 192.168.1.2 255.255.255.0 no sh exit

line vty 0 15 password cisco login end

config t enable password cs

Copy Paste Version

hostname mohsin ip domain mohsin_k200353 ip domain name mohsin k200353 crypto key generate rsa 1024 ip ssh version 2 line vty 0 15 transport input ssh



Router(config)#int fa0/0

Router(config-if)#ex

Router(config-if)#ip access-group World in

Make Topology and Routing Implemented

1-99 Standard ACL(Dest+Out) Find the router nearest to Dest (R1)

Router(config)#access-list 2 deny 192.168.1.2 0.0.0.0 Router(config)#access-list 2 permit any Router(config)#int fa0/1 Router(config-if)#ip access-group 2 out

Named Standard ACL

Router(config)#ip access-list standard Hello
Router(config-std-nacl)#deny 192.168.1.2 0.0.0.0
Router(config-std-nacl)#permit any
Router(config-std-nacl)#exit
Router(config)#int fa0/1
Router(config-if)#ip access-group Hello out
Router(config)#no ip access-list standard Hello

Router(config)#access-list 102 deny tcp 192.168.1.2 0.0.0.0 192.168.3.2 0.0.0.0 eq 80 Router(config)#access-list 102 permit tcp any any

Router(config)#int fa0/0

192.168.3.0

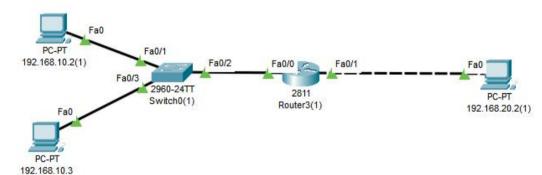
Fa0

Router(config-if)#ip access-group 102 in

Server-PT

Server0





PreRequesites
Router(config-if)#int fa0/0
Router(config-if)#ip nat inside
Router(config-if)#int fa0/1
Router(config-if)#ip nat outside

Static NAT

Router(config-if)#ip nat inside source static 192.168.10.2 200.200.200.200 Router(config)#ex

no ip nat inside source static show ip nat translation

Dynamic NAT

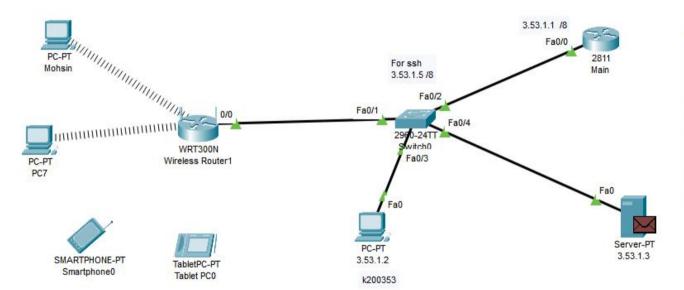
Router(config)#access-list 10 permit 192.168.10.0 0.0.0.255

Router(config)#ip nat pool CCNP 200.200.200.1 200.200.200.200 netmask 255.255.255.0 Router(config)#ip nat inside source list 10 pool CCNP can also add overload

PAT

Router(config)#access-list 10 permit 192.168.10.0 0.0.0.255 Router(config)#ip nat inside source list 10 int fa0/1 overload

Router(config)#access-list 10 permit 192.168.10.0 0.0.0.255 R1(config)#ip nat pool ccna 200.200.200.1 200.200.200.200 netmask 255.255.255.0 R1(config)#ip nat inside source list 10 pool ccna overload R1(config)#int fa0/1



Remove The existing card from PC and add Wifi Card

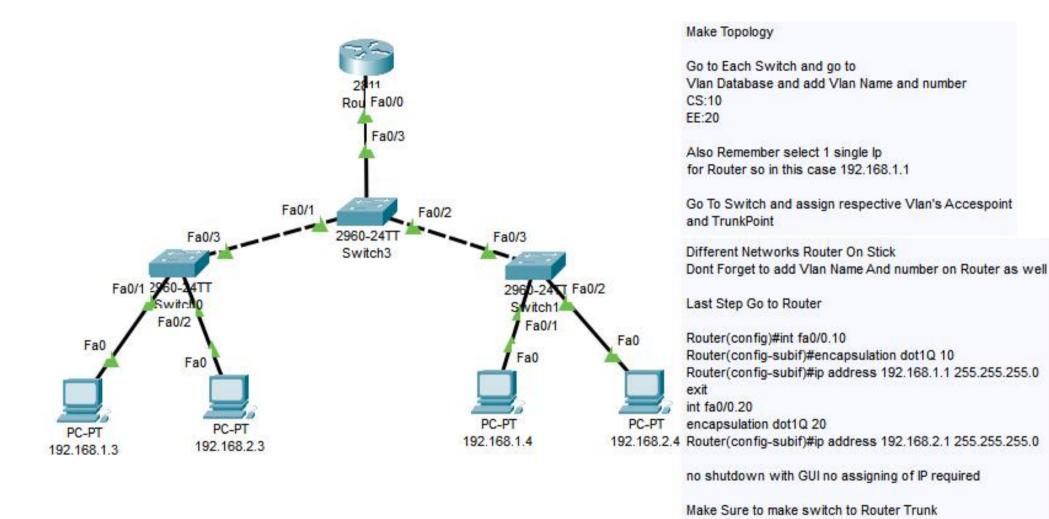
Change the router to Static IP such that imagine it belongs to one of the network of main

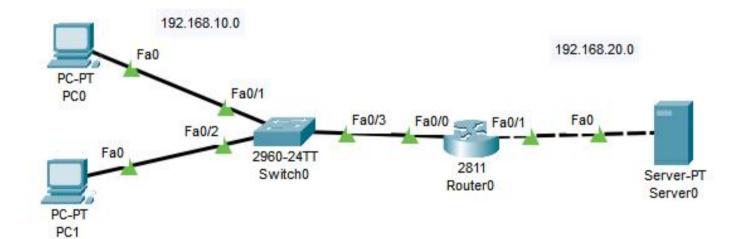
Gateway is Main now Give the DHCP some other ID's in Network Tab downwards

Change SSID: Mohsin_k200353 in wireless tab

Changing Secuirty go to wireless and then wireless_security select WEP and then ur 10 digit password

Make sure to reconnet with PC's after changing SSID i.e wireless refresh connect





turn FTP on, give privileges
Go to Host, cmd, gtp server's IP
? to look at commands get filename,
texteditor create a file
dir all files
put filename (for Upload)
get filename (for Download)