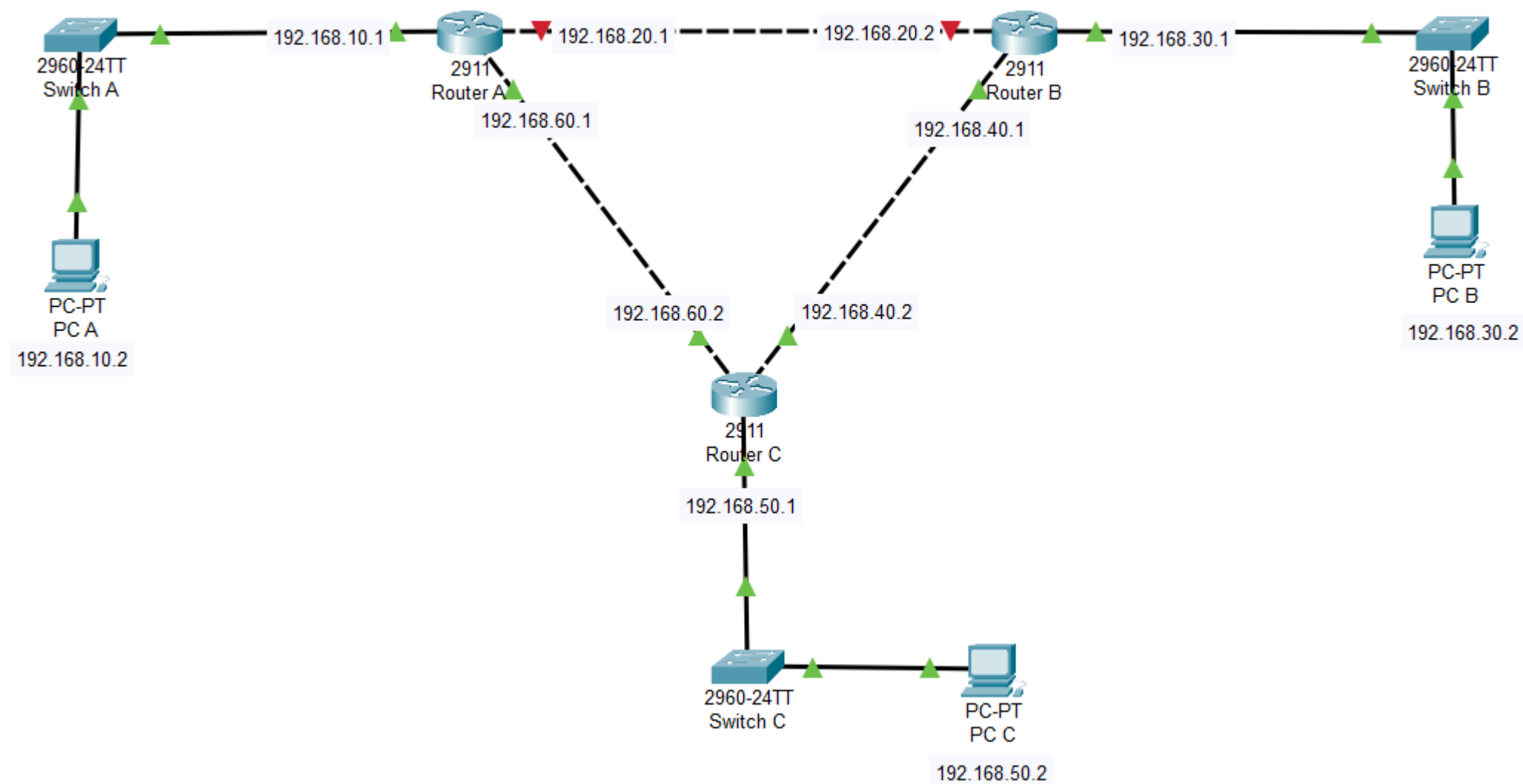


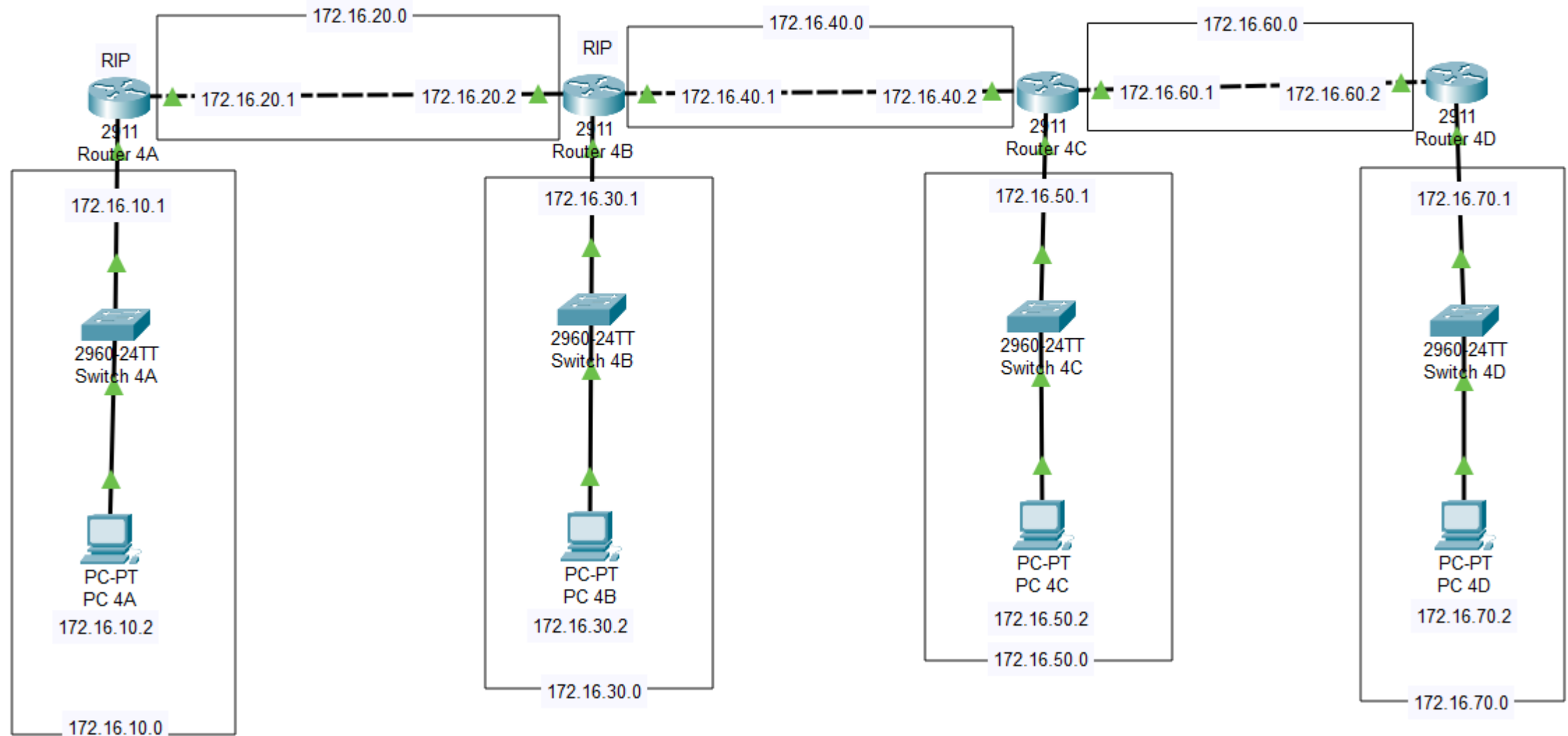
Assignment 3

condition shut A or B g0/1



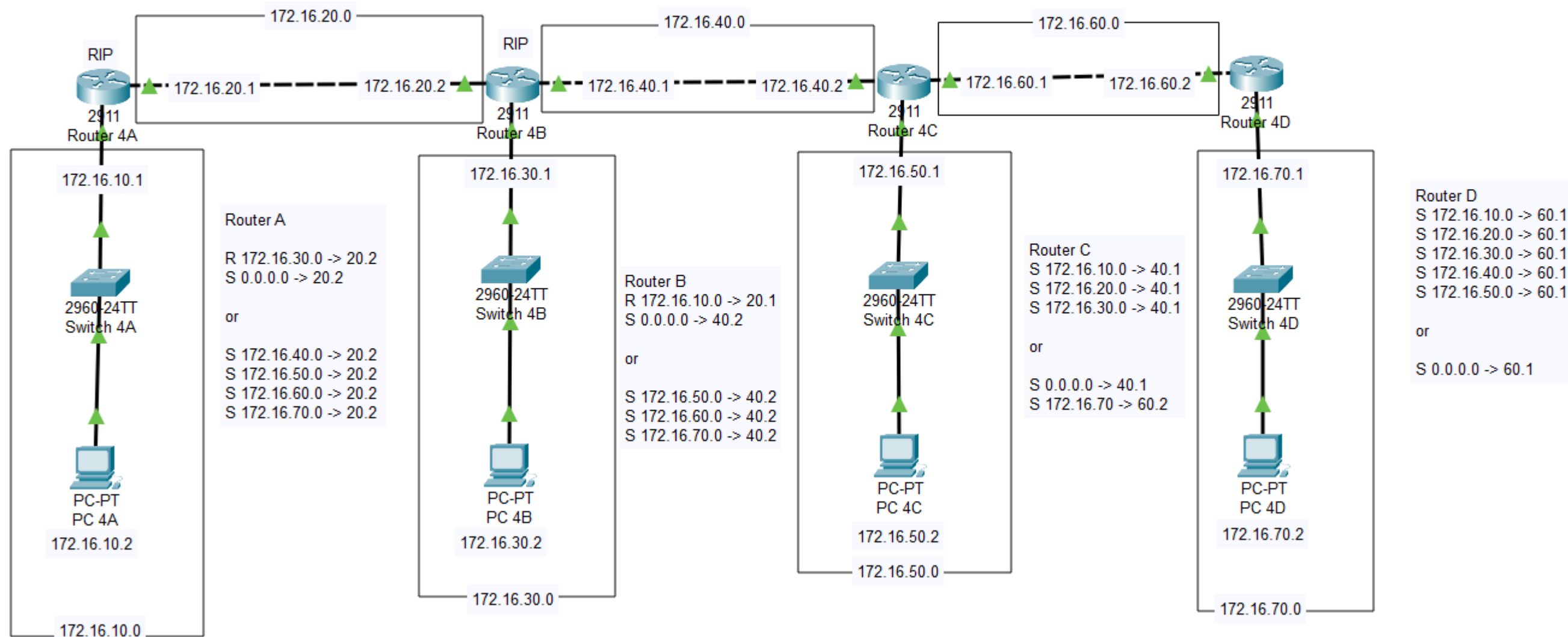
Assignment 4

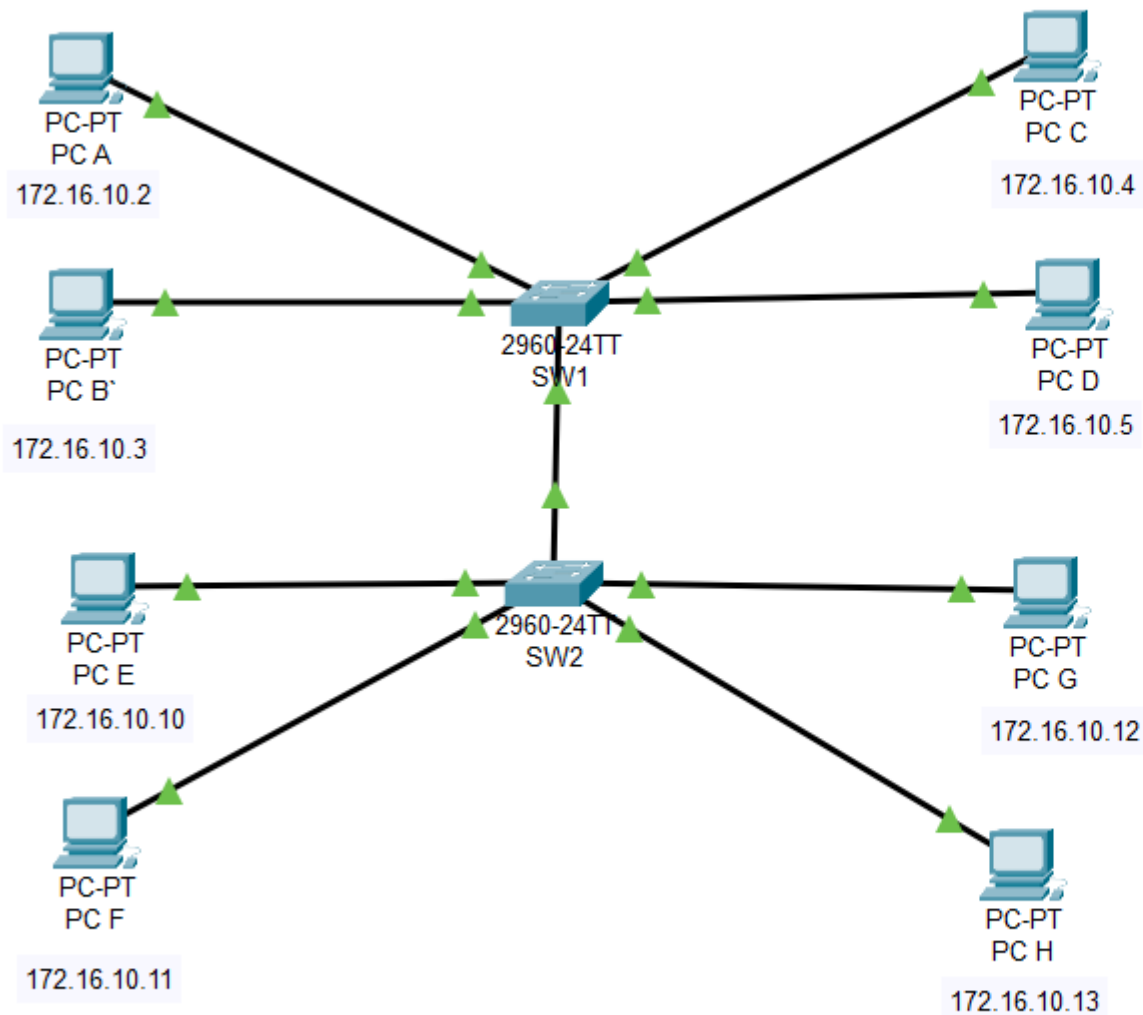
Condition : -
Router A & B should be Implement with RIP
and all PC's should communicate with each other



Assignment 4

Condition : -
Router A & B should be Implement with RIP
and all PC's should communicate with each other





2 --> sales /24
3 --> purchase

Hosname SW1
Enable secret
user mode password
IP(172.16.10.100) and SM and DG (172.16.10.1) on the switch
create the vlans and add ports to vlans

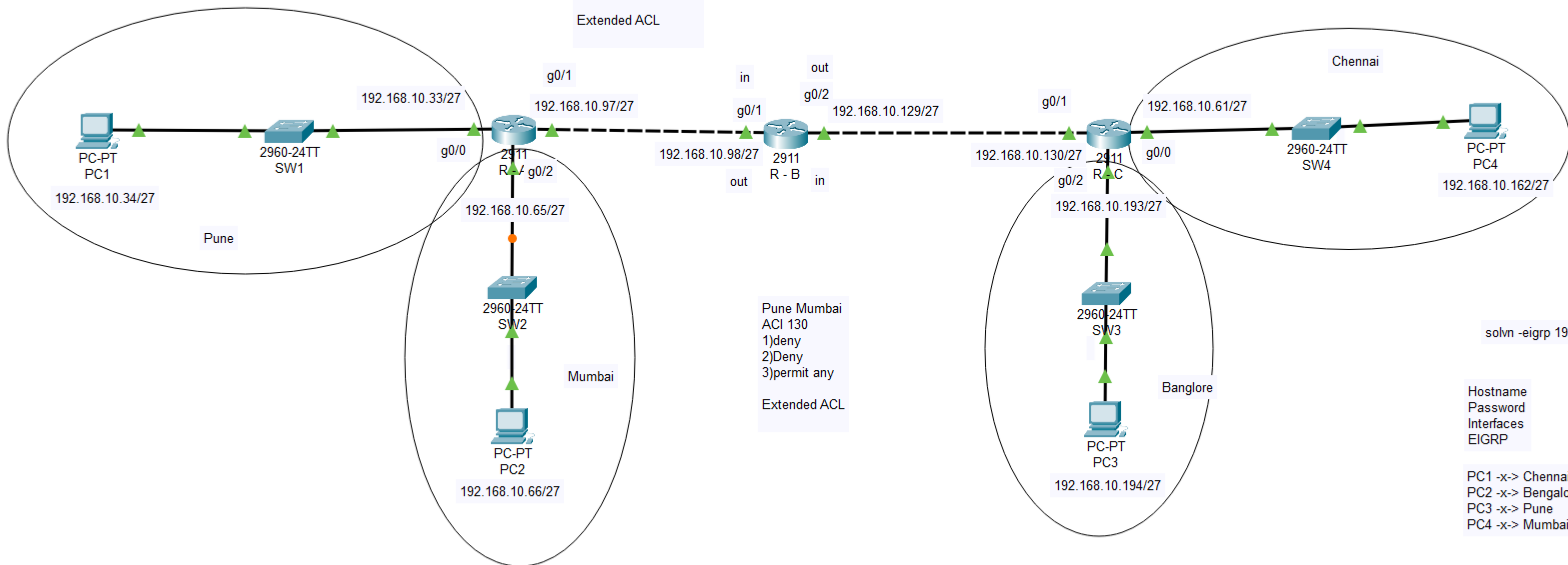
2 --> sales /24
3 --> purchase

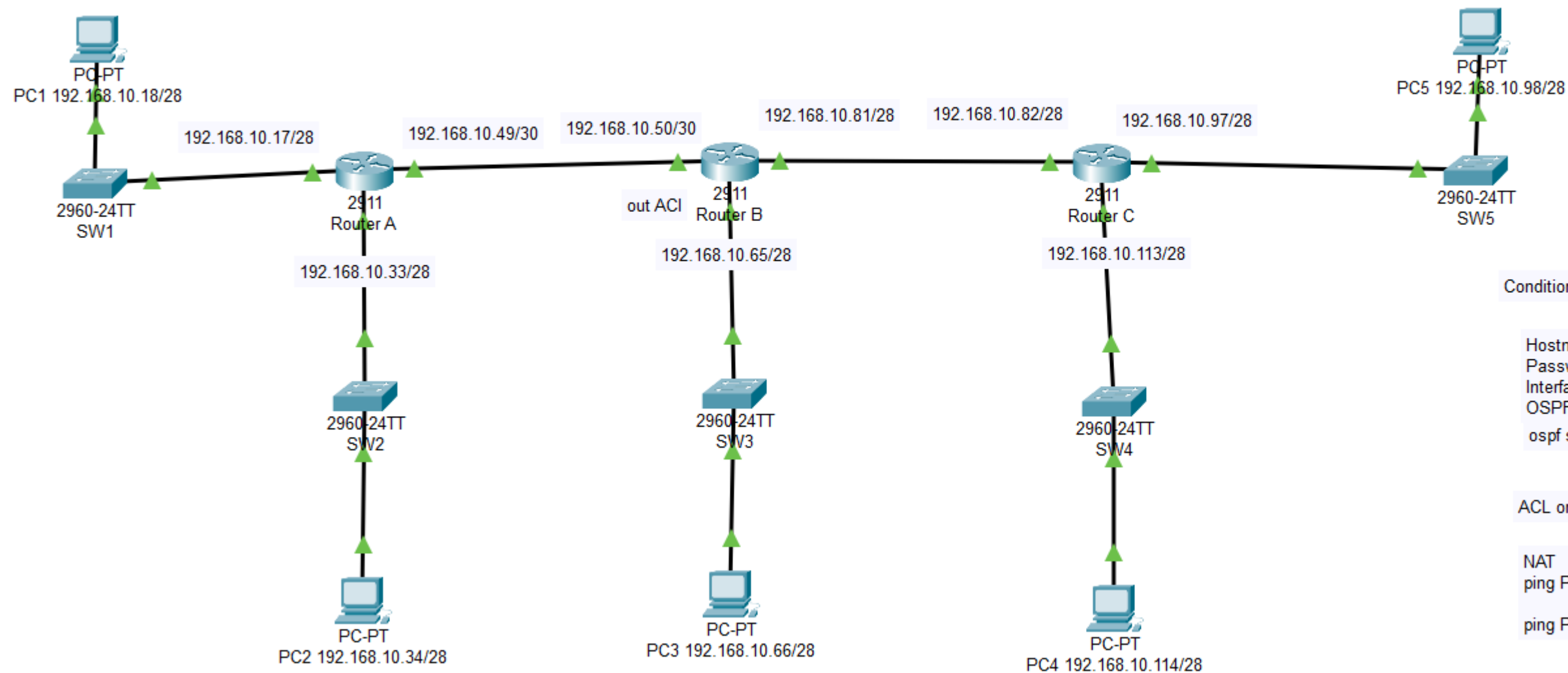
Hosname SW2
Enable secret
user mode password
IP(172.16.10.200) and SM and DG (172.16.10.1) on the switch
create the vlans and add ports to vlans

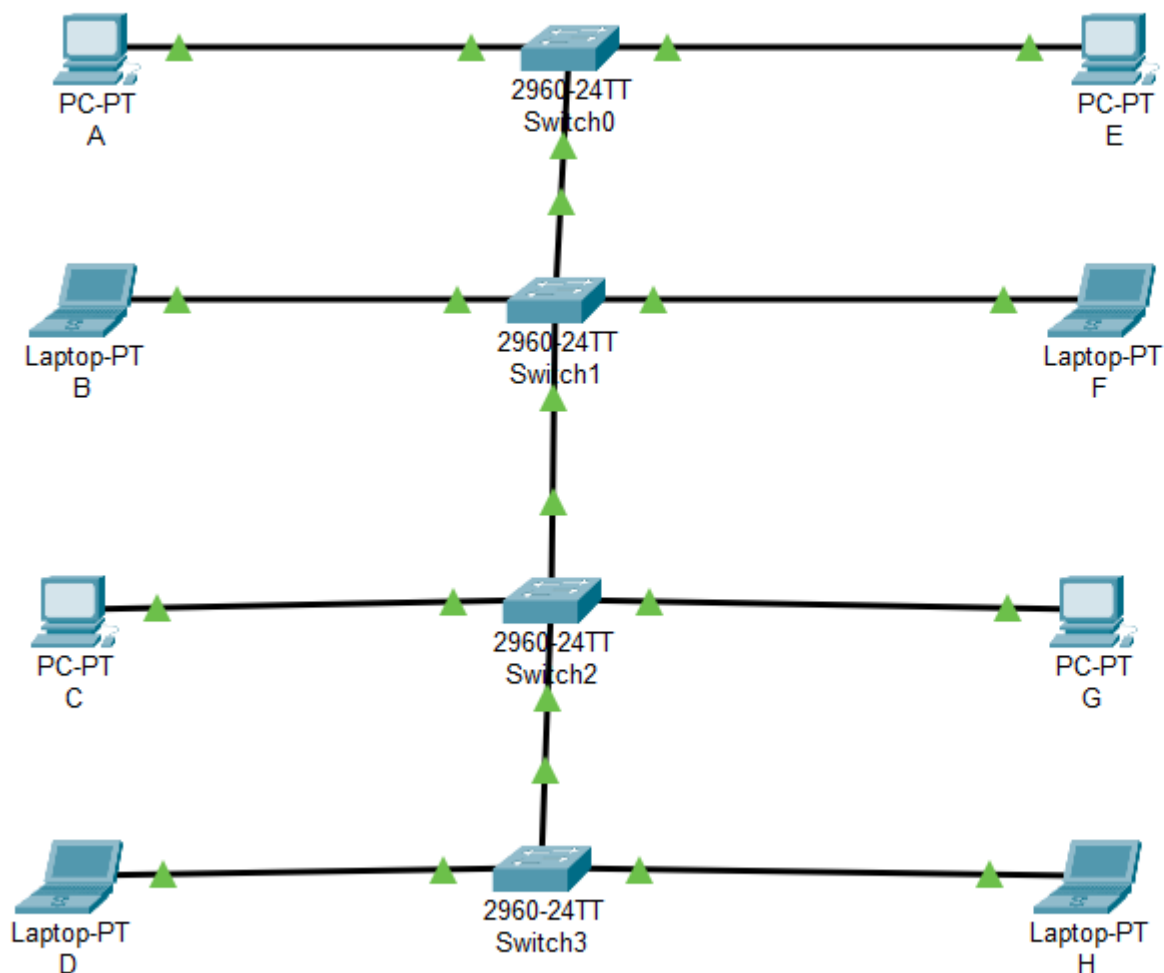
PC4 172.16.50.2

Chennai Bangalore
-----Direction----->
ACI 120
1)deny
2)Deny
3)permit any
Extended ACL

for every direction create new access list



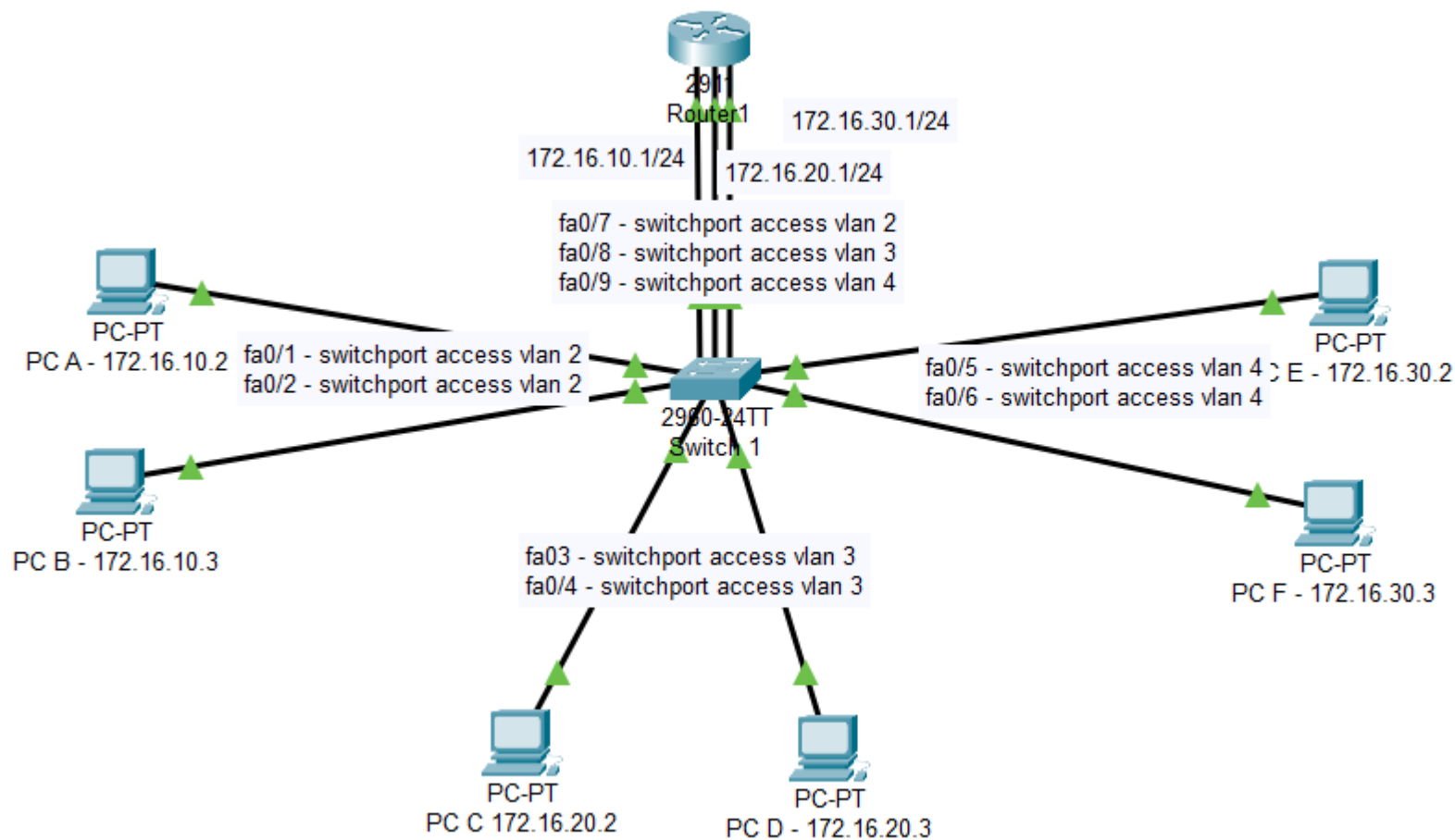




```
SW1(config)#vtp domain sunbeam
vtp mode server
vlan 2
-vlan)#name sales
vlan 3
-vlan)#name purchase
(conf)#int f1/0
if)#switchport access vlan 2
#int f1/1
switchport access vlan 3
int fa1/12
-if)# switchport modetrunk
```

```
SW2(config)#vtp domain sunbeam
vtp mode client
(conf)#int f1/0
if)#switchport access vlan 2
#int f1/1
switchport access vlan 3
int fa1/12
-if)# switchport modetrunk
```

```
SW3(config)#vtp domain sunbeam
vtp mode client
(conf)#int f1/0
if)#switchport access vlan 2
#int f1/1
switchport access vlan 3
int fa1/12
-if)# switchport modetrunk
#fa1/13
-if)#switchport mode trunk
```

*Hostname

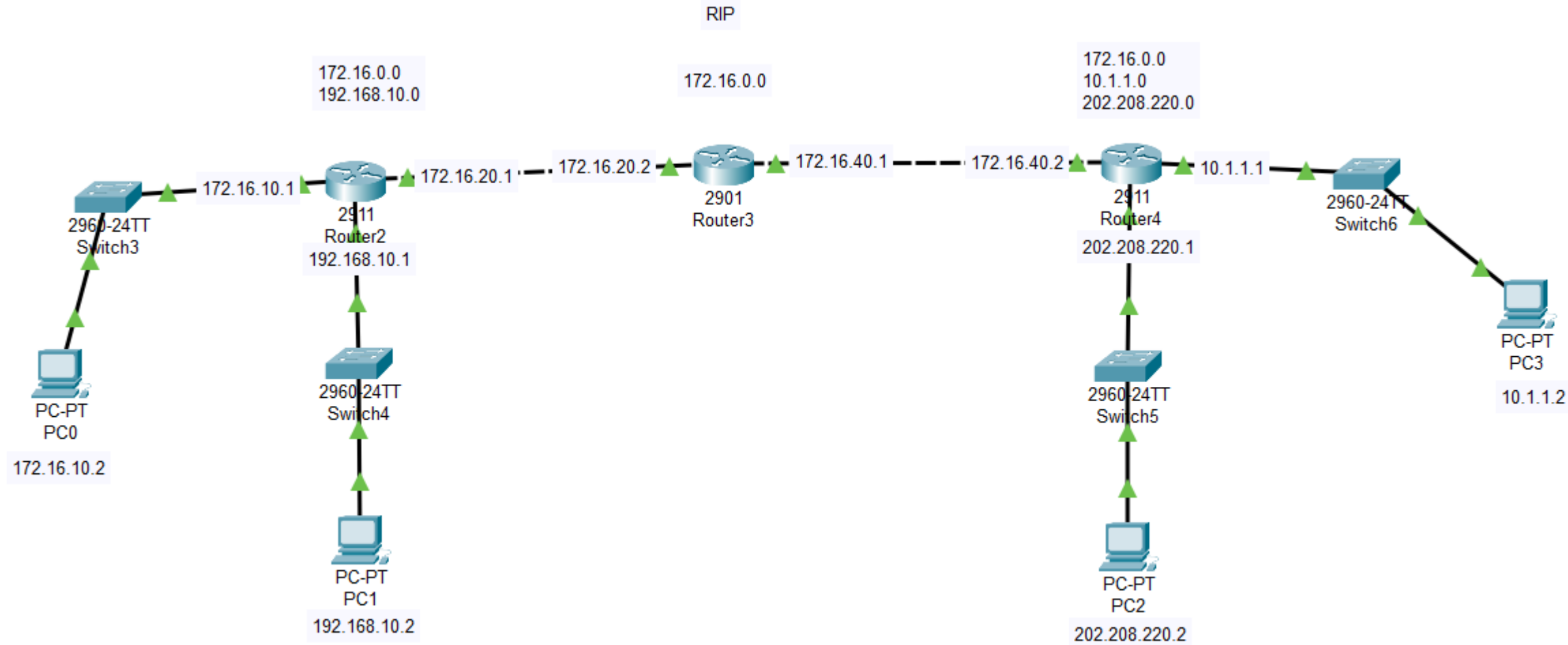
*Password

vlan 2 - Sales

vlan 3 - Purchase

vlan 4 - MKTG

sh vlan bri



NAT

Static NAT

Inside local -> Inside global

172.16.10.2 -> 202.208.220.2

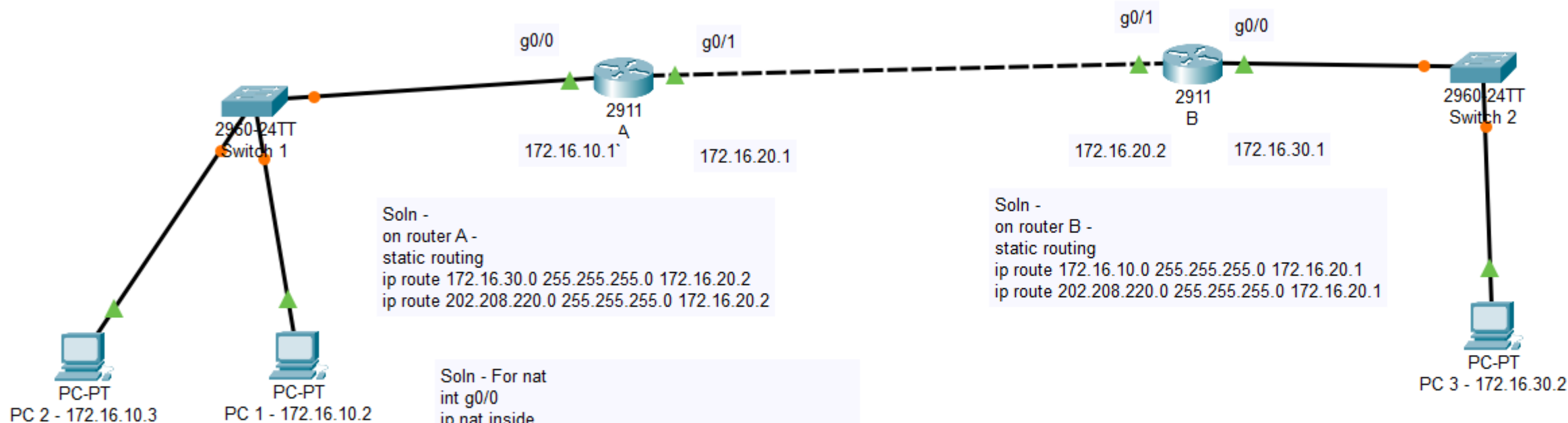
172.16.10.3 -> 202.208.220.3

Config :-

- 1) Hostname
- 2) Password
- 3) Interfaces
- 4) Static Routes
- 5) NAT for PC2 & PC1

PC3 should ping to PC1 & PC2 with inside global

NATing has to be provided on Router A



Soln -

on router A -

static routing

ip route 172.16.30.0 255.255.255.0 172.16.20.2

ip route 202.208.220.0 255.255.255.0 172.16.20.2

Soln - For nat

int g0/0

ip nat inside

int g0/1

ip nat outside

ip nat inside source static 172.16.10.2 202.208.220.2

ip nat inside source static 172.16.10.3 202.208.220.3

Soln -

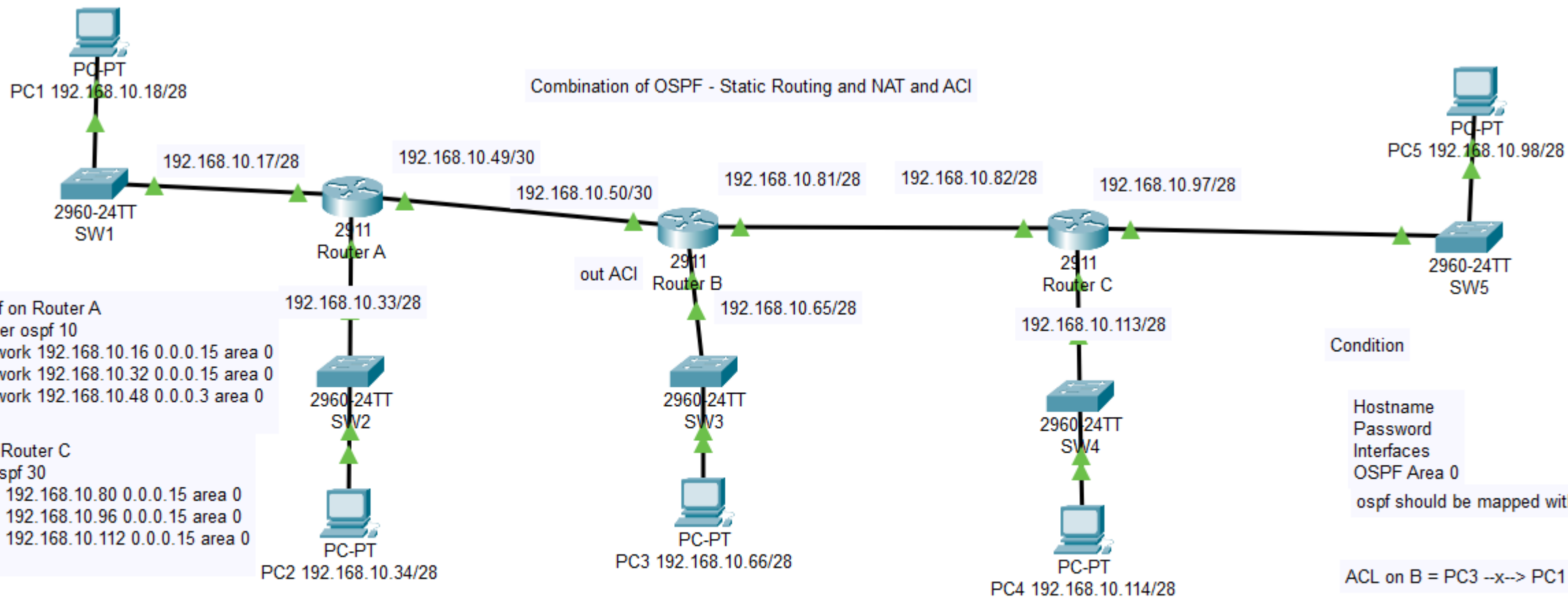
on router B -

static routing

ip route 172.16.10.0 255.255.255.0 172.16.20.1

ip route 202.208.220.0 255.255.255.0 172.16.20.1

Combination of OSPF - Static Routing and NAT and ACL



subnet 28 so gap is 16 ->
 16 to 32
 32 to 48
 64 to 80
 80 to 96
 96 to 112

ospf on Router B
 router ospf 20
 network 192.168.10.48 0.0.0.15 area 0
 network 192.168.10.64 0.0.0.15 area 0
 network 192.168.10.80 0.0.0.15 area 0

ospf on Router A
 router ospf 10
 network 192.168.10.16 0.0.0.15 area 0
 network 192.168.10.32 0.0.0.15 area 0
 network 192.168.10.48 0.0.0.3 area 0

ospf on Router C
 router ospf 30
 network 192.168.10.80 0.0.0.15 area 0
 network 192.168.10.96 0.0.0.15 area 0
 network 192.168.10.112 0.0.0.15 area 0

on router B for ACL = PC3 --x--> PC1 & PC2
 access-list 101 deny ip 192.168.10.64 0.0.0.15 192.168.10.18 0.0.0.15
 access-list 101 deny ip 192.168.10.64 0.0.0.15 192.168.10.34 0.0.0.15
 int g0/2
 ip access-group 101 out

For nat
 int g0/2
 ip nat outside
 int g0/1
 ip nat inside
 int g0/0
 ip nat inside
 ip nat inside source static 192.168.10.98 75.1.1.1
 ip nat inside source static 192.168.10.114 75.1.1.1

static
 on A,B,C for nat

Condition

Hostname
 Password
 Interfaces
 OSPF Area 0
 ospf should be mapped with appropriate wildcard mask

ACL on B = PC3 --x--> PC1 & PC2

NAT
 ping PC1 --> PC4 with 75.1.1.1
 ping PC1 --> PC5 with 75.1.1.1

Assignment 3

condition shut A or B g0/1

