S1

Switch>en

Switch#conf t

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

Switch(config)#int vlan1

Switch(config-if)#ip address 172.16.3.2 255.255.255.0

Switch(config-if)#no shutdown  
Switch(config)#ip default-gateway 172.16.3.1

S2

en

Switch#conf t

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

Switch(config)#int vlan1

Switch(config-if)#ip add 172.16.1.2 255.255.255.0

Switch(config-if)#no shutdown  
Switch(config)#ip default-gateway 172.16.1.1

S3

Switch>en

Switch#conf t

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

Switch(config)#int vlan1

Switch(config-if)#ip add 192.168.2.2 255.255.255.0

Switch(config-if)#no shutdown  
Switch(config)#ip default-gateway 192.168.2.1

R1

Router>en

Router#conf t

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

Router(config)#int gig0/0/0

Router(config-if)#ip add 172.16.3.1 255.255.255.0

Router(config-if)#no shutdown

Router(config-if)#

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

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

Router(config-if)#exit

Router(config)#int se0/1/0

Router(config-if)#ip add 172.16.2.1 255.255.255.0

Router(config-if)#no shutdown

%LINK-5-CHANGED: Interface Serial0/1/0, changed state to down

Router(config-if)#

Router(config-if)#exit

Router(config)#ip route 172.16.1.0 255.255.255.0 172.16.2.2

Router(config)#ip route 192.168.1.0. 255.255.255.0 172.16.2.2

^

% Invalid input detected at '^' marker.

Router(config)#ip route 192.168.1.0 255.255.255.0 172.16.2.2

Router(config)#ip route 192.168.2.0 255.255.255.0 172.16.2.2

Router(config)#

R2