**EIGRP(SWITCH 0)**

Switch>en

Switch#conf t

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

Switch(config)#vlan 10

Switch(config-vlan)#vlan 20

Switch(config-vlan)#vlan 30

Switch(config-vlan)#exit

Switch(config)#int f0/2

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 10

Switch(config-if)#int f0/3

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 20

Switch(config-if)#int f0/4

Switch(config-if)#switchport mode access

Switch(config-if)#switchport access vlan 30

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)#int f0/1

Switch(config-if)#switchport mode trunk

Switch(config-if)#end

Switch#

%SYS-5-CONFIG\_I: Configured from console by console

Switch#wr

Building configuration...

[OK]

Switch#

**EIGRP(router6)**

Router>en

Router#conf t

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

Router(config)#int f0/1.10

Router(config-subif)#encapsulation dot1q 10

Router(config-subif)#ip address 10.0.0.1 255.0.0.0

Router(config-subif)#no shut

Router(config-subif)#int f0/1.20

Router(config-subif)#encapsulation dot1q 20

Router(config-subif)#ip address 20.0.0.1 255.0.0.0

Router(config-subif)#no shut

Router(config-subif)#

Router(config-subif)#int f0/1.30

Router(config-subif)#encapsulation dot1q 30

Router(config-subif)#ip address 30.0.0.1 255.0.0.0

Router(config-subif)#mo shut

^

% Invalid input detected at '^' marker.

Router(config-subif)#no shut

Router(config-subif)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#conf t

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

Router(config)#int f0/1

Router(config-if)#no shut

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

%LINK-5-CHANGED: Interface FastEthernet0/1.10, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.10, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/1.20, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.20, changed state to up

%LINK-5-CHANGED: Interface FastEthernet0/1.30, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/1.30, changed state to up

Router(config-if)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#conf t

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

Router(config)#ip dhcp pool vlan10

Router(dhcp-config)#network 10.0.0.0 255.0.0.0

Router(dhcp-config)#default-router 10.0.0.1

Router(dhcp-config)#dns-server 8.8.8.8

Router(dhcp-config)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

Router#conf t

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

Router(config)#ip dhcp poo%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 10.0.0.1.

% Incomplete command.

Router(config)#ip dhcp pool vlan20

Router(dhcp-config)#network 20.0.0.0 255.0.0.0

Router(dhcp-config)#default-router 20.0.0.1

Router(dhcp-config)#dns-server 8.8.8.8

Router(dhcp-config)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

Router#conf t

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

Router(config)#ip dhcp pool vlan30

Router(dhcp-config)#network 30.0.0.0 255.0.0.0

Router(dhcp-config)#default-router 30.0.0.1

Router(dhcp-config)#dns-server 8.8.8.8

Router(dhcp-config)#exit

Router(config)#exit

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 30.0.0.1.

%DHCPD-4-PING\_CONFLICT: DHCP address conflict: server pinged 20.0.0.1.

Router#conf t

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

Router(config)#int f0/0

Router(config-if)#ip address 1.1.1.1 255.0.0.0

Router(config-if)#no shut

Router(config-if)#

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

Router(config-if)#exit

Router(config)#

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

Router(config)#router eigrp 100

Router(config-router)#network 0.0.0.0

Router(config-router)#no auto-summary

Router(config-router)#end

Router#

**EIGRP(router-3)/rajshahi**

Router>en

Router#conf t

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

Router(config)#int f0/0

Router(config-if)#ip address 1.1.1.2 255.0.0.0

Router(config-if)#no shut

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

Router(config-if)#exit

Router(config)#int s0/0/0

Router(config-if)#ip address 11.0.0.1 255.0.0.0

Router(config-if)#no shut

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

Router(config-if)#exit

Router(config)#

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

Router(config)#router eigrp 100

Router(config-router)#network 0.0.0.0

Router(config-router)#

%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 1.1.1.1 (FastEthernet0/0) is up: new adjacency

Router(config-router)#network 11.0.0.0

Router(config-router)#no auto-summary

Router(config-router)#

%DUAL-5-NBRCHANGE: IP-EIGRP 100: Neighbor 1.1.1.1 (FastEthernet0/0) resync: summary configured

Router(config-router)#end

Router#

%SYS-5-CONFIG\_I: Configured from console by console

Router#wr

Building configuration...

[OK]

Router#

**Rip(router 9)**

Router>en

Router#conf t

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

Router(config)#int f0/0

Router(config-if)#ip address 10.0.0.1 255.0.0.0

Router(config-if)#no shut

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

Router(config-if)#exit

Router(config)#int s0/2/0

Router(config-if)#ip address 216.1.1.1 255.255.255.0

Router(config-if)#no shut

Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/2/0, changed state to up

Router(config-if)#exit

Router(config)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to up

Router(config)#router rip

Router(config-router)#version 2

Router(config-router)#network 10.0.0.0

Router(config-router)#network 192.168.1.0

Router(config-router)#network 216.1.1.0

Router(config-router)#exit

Router(config)#ip nat inside source static 10.0.0.2 216.1.1.3

Router(config)#ip route 0.0.0.0 0.0.0.0 s0/2/0

Router(config)#do sh ip nat tr

Pro Inside global Inside local Outside local Outside global

--- 216.1.1.3 10.0.0.2 --- ---

Router(config)#int f0/0

Router(config-if)#ip nat inside

Router(config-if)#int s0/2/0

Router(config-if)#ip nat outside

Router(config-if)#do sh ip nat tr

Pro Inside global Inside local Outside local Outside global

--- 216.1.1.3 10.0.0.2 --- ---

tcp 216.1.1.3:1026 10.0.0.2:1026 192.168.1.3:80 192.168.1.3:80

Router(config-if)#

**rip(router 8)**

Router>en

Router#conf t

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

Router(config)#int f0/0

Router(config-if)#ip address 192.168.1.1 255.255.255.0

Router(config-if)#no shut

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

Router(config-if)#exit

Router(config)#int s0/2/0

Router(config-if)#ip address 216.1.1.2 255.255.255.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/2/0, changed state to down

Router(config-if)#exit

Router(config)#int s0/1/0

Router(config-if)#ip address 12.0.0.1 255.0.0.0

Router(config-if)#no shut

Router(config-if)#

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

Router(config-if)#exit

Router(config)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

Router(config)#router rip

Router(config-router)#version 2

Router(config-router)#network 10.0.0.0

Router(config-router)#network 192.168.1.0

Router(config-router)#network 216.1.1.0

Router(config-router)#network 12.0.0.0

Router(config-router)#exit

Router(config)#

%LINK-5-CHANGED: Interface Serial0/2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to up

**CORE ROUTER**

Router>en

Router#conf t

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

Router(config)#int s0/2/0

Router(config-if)#ip address 13.0.0.2 255.0.0.0

Router(config-if)#no shut

Router(config-if)#

%LINK-5-CHANGED: Interface Serial0/2/0, changed state to up

Router(config-if)#exit

Router(config)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to up

Router(config)#router ospf 10

Router(config-router)#network 13.0.0.0 0.255.255.255 area 0

Router(config-router)#

01:38:52: %OSPF-5-ADJCHG: Process 10, Nbr 200.20.20.1 on Serial0/2/0 from LOADING to FULL, Loading Done

Router(config-router)#exit

Router(config)#router rip

Router(config-router)#redistribute ospf 10 metric 1

Router(config-router)#redistribute eigrp 100 metric 1

Router(config-router)#exit

Router(config)#router ospf 10

Router(config-router)#redistribute rip subnets

Router(config-router)#redistribute eigrp 100 subnets

Router(config-router)#exit

Router(config)#router eigrp 100

Router(config-router)#redistribute rip metric 1000 100 255 1 15

Router(config-router)#redistribute ospf 10 metric 10000 100 255 1 15

Router(config-router)#exit

Router(config)#

**OSPF(CHITTAGONG)**

Router>en

Router#conf t

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

Router(config)#int s0/0/0

Router(config-if)#ip address 192.168.0.2 255.255.255.248

Router(config-if)#no shut

Router(config-if)#

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

Router(config-if)#exit

Router(config)#int

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

% Incomplete command.

Router(config)#int f0/0

Router(config-if)#ip address 192.168.20.1 255.255.255.0

Router(config-if)#no shut

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

Router(config-if)#exit

Router(config)#int s0/1/0

Router(config-if)#ip address 20.20.20.1 255.255.255.240

Router(config-if)#no shut

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

Router(config-if)#exit

Router(config)#int s0/2/0

Router(config-if)#ip address 13.0.0.1 255.0.0.0

Router(config-if)#no shut

%LINK-5-CHANGED: Interface Serial0/2/0, changed state to down

Router(config-if)#

Router(config-if)#exit

Router(config)#int s0/1/0

Router(config-if)#ip address 200.20.20.1 255.255.255.240

Router(config-if)#no shut

Router(config-if)#exit

Router(config)#

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

%LINK-5-CHANGED: Interface Serial0/2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/2/0, changed state to up

Router(config)#router ospf 10

Router(config-router)#network 200.20.20.0 0.0.0.15 area 0

Router(config-router)#network 192.168.20.0 0.0.0.255 area 0

Router(config-router)#network 192.168.0.0 0.0.0.7 area 0

Router(config-router)#networ

00:42:25: %OSPF-5-ADJCHG: Process 10, Nbr 192.168.10.1 on Serial0/0/0 from LOADING to FULL, Loading Done

% Incomplete command.

Router(config-router)#network 13.0.0.0 0.255.255.255 area 0

**OSPF(ROUTER 15)**

Router>EN

Router#conf t

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

Router(config)#int s0/0/0

Router(config-if)#ip address 192.168.0.1 255.255.255.248

Router(config-if)#no shut

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

Router(config-if)#exit

Router(config)#int f0/0

Router(config-if)#ip address 192.168.10.1 255.255.255.0

Router(config-if)#no shut

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

Router(config-if)#exit

Router(config)#

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/0/0, changed state to up

Router>en

Router#conf t

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

Router(config)#router ospf 10

Router(config-router)#network 192.168.10.0 0.0.0.255 area 0

Router(config-router)#network 192.168.0.0 0.0.0.7 area 0

Router(config-router)#

**pc11(ACL)**

Router>en

Router#conf t

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

Router(config)#access-list 10 deny host 192.168.10.10

Router(config)#access-list 10 permit any

Router(config)#int s0/0/0

Router(config-if)#ip access group 10 out

^

% Invalid input detected at '^' marker.

Router(config-if)#ip access-group 10 out

Router(config-if)#exit

Router(config)#

**OSPF(ROUTER 16)**

Router>en

Router#conf t

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

Router(config)#int f0/0

Router(config-if)#ip address 192.168.30.1 255.255.255.0

Router(config-if)#no shut

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

Router(config-if)#exit

Router(config)#int s0/1/0

Router(config-if)#ip address 200.20.20.2 255.255.255.240

Router(config-if)#no shut

Router(config-if)#

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

Router(config-if)#exit

Router(config)#

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial0/1/0, changed state to up

Router(config)#router ospf 10

Router(config-router)#network 200.20.20.0 0.0.0.15 area 0

Router(config-router)#network 192.1

00:43:15: %OSPF-5-ADJCHG: Process 10, Nbr 200.20.20.1 on Serial0/1/0 from LOADING to FULL, Loading Done

^

% Invalid input detected at '^' marker.

Router(config-router)#network 192.168.30.0 0.0.0.255 area 0

Router(config-router)#