Static Routing Lab ➡
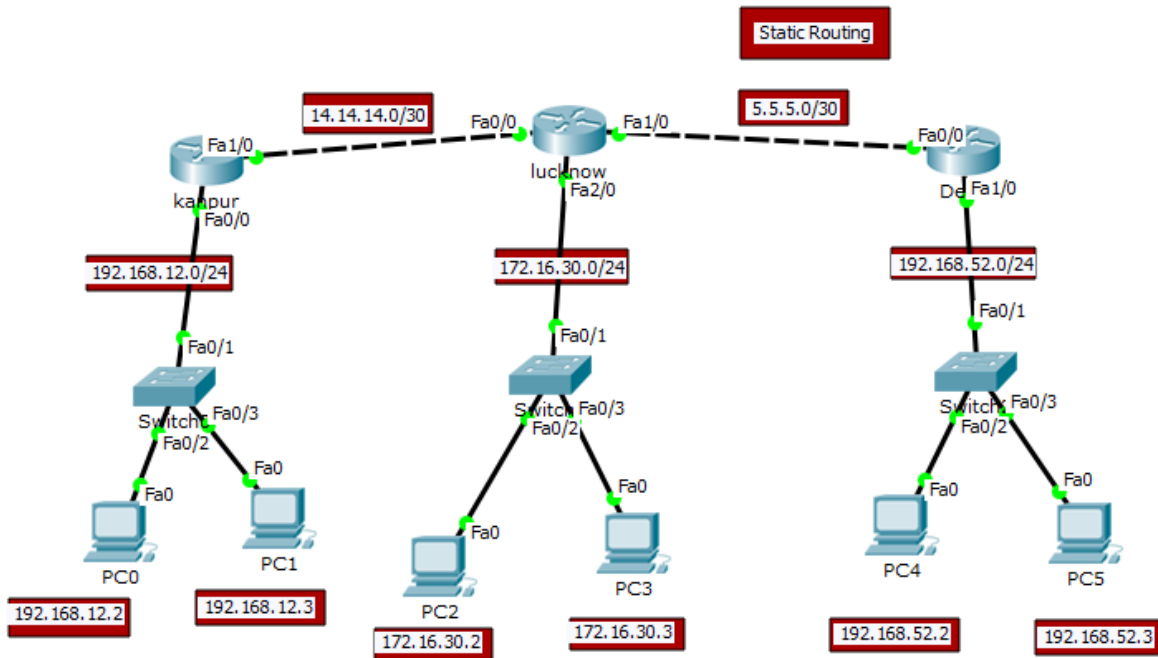
– Kanpur Router –

Router>

Router>en

Router#

Router#configure   t

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

Router(config)#

Router(config)#hostname kanpur

kanpur(config)#

Kanpur(config)#

Kanpur(config)#int fa0/0

kanpur(config-if)#

kanpur(config-if)#ip add 192.168.12.1 255.255.255.0

kanpur(config-if)#

kanpur(config-if)#no shut

kanpur(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

kanpur(config-if)#int fa1/0

kanpur(config-if)#

kanpur(config-if)#ip add 14.14.14.1 255.255.255.252

kanpur(config-if)#

kanpur(config-if)#no shut

kanpur(config-if)#

%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

kanpur(config-if)#

kanpur(config-if)#exit

kanpur(config)#

kanpur(config)#ip route 172.16.30.0 255.255.255.0 14.14.14.2

kanpur(config)#

kanpur(config)#ip route 5.5.5.0 255.255.255.0 14.14.14.2

kanpur(config)#

kanpur(config)#ip route 192.168.52.0 255.255.255.0 14.14.14.2

kanpur(config)#

kanpur(config)#exit

kanpur#

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

kanpur#show ip interface brief

Interface	IP-Address	OK? Method Status	Protocol
FastEthernet0/0	192.168.12.1	YES manual up	up
FastEthernet1/0	14.14.14.1	YES manual up	down
FastEthernet2/0	unassigned	YES unset administratively down	down
FastEthernet3/0	unassigned	YES unset administratively down	down
FastEthernet4/0	unassigned	YES unset administratively down	down

kanpur#

– **Lucknow Router** -

Router>

Router>

Router>enable

Router#

Router#

Router#**config- t**

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

Router(config)#

Router(config)#**hostname lucknow**

lucknow(config)#

lucknow(config)#**username Abhishek**

lucknow(config)#

lucknow(config)#int fa0/0

lucknow(config-if)#

lucknow(config-if)#ip add 14.14.14.2 255.255.255.252

lucknow(config-if)#

lucknow(config-if)#

lucknow(config-if)#**no shut**

lucknow(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

lucknow(config-if)#

lucknow(config)#

lucknow(config)#int fa1/0

lucknow(config-if)#

lucknow(config-if)#ip add 5.5.5.1 255.255.255.252

lucknow(config-if)#

lucknow(config-if)#no shut

lucknow(config-if)#

%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

lucknow(config-if)#

lucknow(config-if)#int fa2/0

lucknow(config-if)#

lucknow(config-if)#ip add 172.16.30.1 255.255.255.0

lucknow(config-if)#

lucknow(config-if)#no shut

lucknow(config-if)#

%LINK-5-CHANGED: Interface FastEthernet2/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet2/0, changed state to up

lucknow(config-if)#

lucknow(config-if)#exit

lucknow(config)#

lucknow(config)#ip route 192.168.12.0 255.255.255.0 14.14.14.1

lucknow(config)#

lucknow(config)#ip route 192.168.52.0 255.255.255.0 5.5.5.2

lucknow(config)#

lucknow(config)#^Z

lucknow#

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

lucknow#

Lucknow#**show ip interface brief**

Interface	IP-Address	OK? Method Status	Protocol
FastEthernet0/0	14.14.14.2	YES manual up	up
FastEthernet1/0	5.5.5.1	YES manual up	down
FastEthernet2/0	172.16.30.1	YES manual up	up
FastEthernet3/0	unassigned	YES unset administratively down	down

lucknow#

– Delhi Router –

Router#

Router#

Router#enable

Router#

Router#**conf t**

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

Router(config)#

Router(config)#**hostname Delhi**

Delhi(config)#

Delhi(config)#**username Abhishek**

Delhi(config)#

Delhi(config)#int fa0/0

Delhi(config-if)#

Delhi(config-if)#ip add 5.5.5.2 255.255.255.252

Delhi(config-if)#

Delhi(config-if)#no shut

Delhi(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

Delhi(config-if)#

Delhi(config-if)#int fa1/0

Delhi(config-if)#

Delhi(config-if)#ip add 192.168.52.1 255.255.255.0

Delhi(config-if)#

Delhi(config-if)#no shut

Delhi(config-if)#

%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Delhi(config-if)#

Delhi(config-if)#exit

Delhi(config)#

Delhi(config)#ip route 14.14.14.0 255.255.255.252 5.5.5.1

Delhi(config)#

Delhi(config)#ip route 192.168.12.0 255.255.255.0 5.5.5.1

Delhi(config)#

Delhi(config)#ip route 172.16.30.0 255.255.255.0 fa0/0

Delhi(config)#

Delhi(config)#exit

Delhi#

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

Delhi#**show ip route**

Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP

D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area

N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2

E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP

i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area

* - candidate default, U - per-user static route, o - ODR

P - periodic downloaded static route

Gateway of last resort is not set

    5.0.0.0/30 is subnetted, 1 subnets

C   5.5.5.0 is directly connected, FastEthernet0/0

    14.0.0.0/30 is subnetted, 1 subnets

S   14.14.14.0 [1/0] via 5.5.5.1

    172.16.0.0/24 is subnetted, 1 subnets

S   172.16.30.0 is directly connected, FastEthernet0/0

S   192.168.12.0/24 [1/0] via 5.5.5.1

C   192.168.52.0/24 is directly connected, FastEthernet1/0

Delhi#

Delhi#**show ip interface brief**

Interface	IP-Address	OK? Method Status	Protocol
FastEthernet0/0	5.5.5.2	YES manual up	up
FastEthernet1/0	192.168.52.1	YES manual up	up

FastEthernet2/0   unassigned   YES unset administratively down down

FastEthernet3/0   unassigned   YES unset administratively down down

FastEthernet4/0   unassigned   YES unset administratively down down

Delhi#

Delhi#**show running-configuration**

Building configuration...

Current configuration : 907 bytes

!

version 12.2

no service timestamps log datetime msec

no service timestamps debug datetime msec

no service password-encryption

!

hostname Delhi

!

!

no ip cef

no ipv6 cef

!

!

!

!

username **Abhishek**

!

!

!

!

!

!

interface FastEthernet0/0

 ip address 5.5.5.2 255.255.255.252

 duplex auto

 speed auto

!

interface FastEthernet1/0

 ip address 192.168.52.1 255.255.255.0

 duplex auto

 speed auto

!

interface FastEthernet2/0

 no ip address

 duplex auto

 speed auto

 shutdown

!

interface FastEthernet3/0

 no ip address

duplex auto

speed auto

shutdown

!

interface FastEthernet4/0

 no ip address

 duplex auto

 speed auto

 shutdown

!

ip classless

ip route 14.14.14.0 255.255.255.252 5.5.5.1

ip route 192.168.12.0 255.255.255.0 5.5.5.1

ip route 172.16.30.0 255.255.255.0 FastEthernet0/0

!

ip flow-export version 9

!

!

!

!

!

line con 0

!

line aux 0

!

line vty 0 4

 login

!

!

!

end

Delhi#