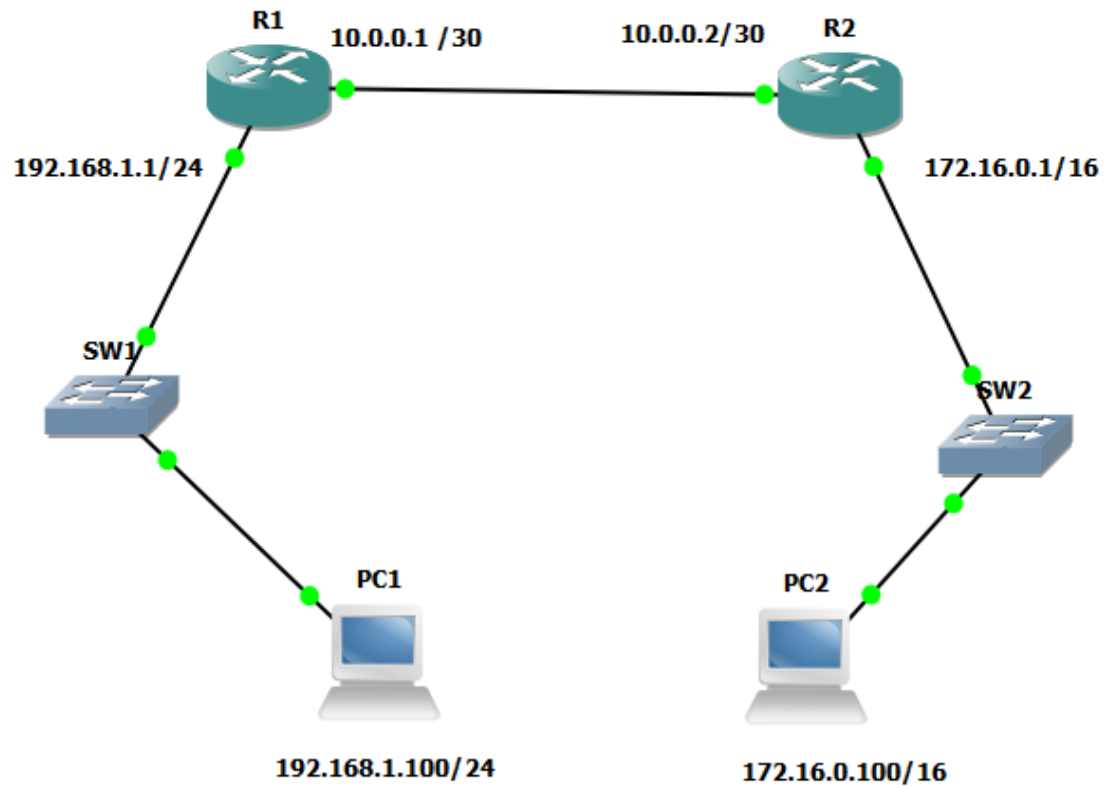


Alok Shree Koirala



```
PC1> ip 192.168.1.100 255.255.255.0 192.168.1.1
Checking for duplicate address...
PC1 : 192.168.1.100 255.255.255.0 gateway 192.168.1.1

PC1> show ip

NAME       : PC1[1]
IP/MASK    : 192.168.1.100/24
GATEWAY    : 192.168.1.1
DNS        :
MAC        : 00:50:79:66:68:00
LPORT     : 10000
RHOST:PORT : 127.0.0.1:10001
MTU        : 1500

PC1> ip dns 192.168.1.0
```

```
PC2> ip 172.16.0.100 255.255.0.0 172.16.0.1
Checking for duplicate address...
PC1 : 172.16.0.100 255.255.0.0 gateway 172.16.0.1

PC2> ip dns 172.16.0.0
```

R1

```
R1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#interface f0/0
R1(config-if)#ip address 192.168.1.1 255.255.255.0
R1(config-if)#no shut
R1(config-if)#exit
R1(config)#
R1(config)#interface f3/0
```

```
R1(config-if)#ip address 10.0.0.1 255.255.255.252
R1(config-if)#no shut
```

R2

```
R2#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#interface f0/0
R2(config-if)#ip address 172.16.0.1 255.255.0.0
R2(config-if)#no shut
R2(config-if)#exit
```

```
R2(config)#interface f3/0
R2(config-if)#ip address 10.0.0.2 255.255.255.252
R2(config-if)#no shut
```

Configuring Static Routing

```
R1#configure t
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#ip route 172.16.0.0 255.255.0.0 10.0.0.2
R1(config)#exit
```

```
R2#config t
Enter configuration commands, one per line. End with CNTL/Z.
R2(config)#ip route 192.168.1.0 255.255.255.0 10.0.0.1
R2(config)#exit
```

Assigning ip to pc:

```
PC1> ip 192.168.1.100 255.255.255.0 192.168.1.1
Checking for duplicate address...
PC1 : 192.168.1.100 255.255.255.0 gateway 192.168.1.1
```

```
PC1> ip dns 192.168.1.0
```

```
PC1> show ip
```

```
NAME       : PC1[1]
IP/MASK    : 192.168.1.100/24
GATEWAY    : 192.168.1.1
DNS        : 192.168.1.0
MAC        : 00:50:79:66:68:00
LPORT     : 10000
RHOST:PORT : 127.0.0.1:10001
MTU        : 1500
```

```
PC2> ip 172.16.0.100 255.255.0.0 172.16.0.1
Checking for duplicate address...
PC1 : 172.16.0.100 255.255.0.0 gateway 172.16.0.1
```

```
PC2> ip dns 172.16.0.0
```

```
PC2> show ip
```

```
NAME       : PC2[1]
IP/MASK    : 172.16.0.100/16
GATEWAY    : 172.16.0.1
DNS        : 172.16.0.0
MAC        : 00:50:79:66:68:01
LPORT     : 10009
RHOST:PORT : 127.0.0.1:10008
MTU        : 1500
```

Pinging to Check Connection

```
PC1> ping 172.16.0.100
172.16.0.100 icmp_seq=1 timeout
172.16.0.100 icmp_seq=2 timeout
84 bytes from 172.16.0.100 icmp_seq=3 ttl=62 time=78.460 ms
84 bytes from 172.16.0.100 icmp_seq=4 ttl=62 time=78.136 ms
84 bytes from 172.16.0.100 icmp_seq=5 ttl=62 time=93.699 ms
```

```
PC2> ping 192.168.1.100
84 bytes from 192.168.1.100 icmp_seq=1 ttl=62 time=93.728 ms
84 bytes from 192.168.1.100 icmp_seq=2 ttl=62 time=93.728 ms
84 bytes from 192.168.1.100 icmp_seq=3 ttl=62 time=93.728 ms
84 bytes from 192.168.1.100 icmp_seq=4 ttl=62 time=109.349 ms
84 bytes from 192.168.1.100 icmp_seq=5 ttl=62 time=93.728 ms
```

