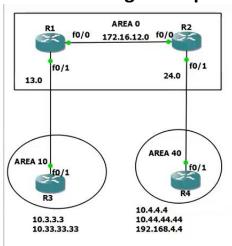
### **OSPF Completion**

## **Route-Filtering Concepts**



```
Summary Net Link States (Area 10)
Link ID
                 ADV Router
                                                            Checksum
                                   Age 343
                                                Seq# Checksum 0x80000001 0x0080A1
                 10.1.1.1
10.1.1.1
                                                0x80000001 0x00C351
10.2.2.2
                 10.1.1.1
                                   287
                 10.1.1.1
10.4.4.4
                                   205
                                                0x80000001 0x00E51F
10.44.44.44
                 10.1.1.1
                                   205
                                                0x80000001 0x00B8D3
172.16.12.0
                 10.1.1.1
                                   358
                                                0x80000001 0x0074E8
172.16.24.0
                 10.1.1.1
                                                0x80000001 0x0054F2
                                   287
192.168.4.4
                 10.1.1.1
                                   205
                                                0x80000001 0x00E6C2
R1 (config)#
```

- \*\* we don't want this ip add to share with the R3
- \*\* area-id filter CMD

#### #R1

```
R1 (config) #ip prefix-list NH seq 10 deny 10.4.4.4/32
R1 (config) #ip prefix-list NH seq 20 permit 0.0.0.0/0 le 32
R1 (config) #router ospf 10
R1 (config-router) #area 10 filterplist prefix NH in

$ Invalid input detected at '^' marker.

R1 (config-router) #area 10 filte-list prefix NH in

$ Invalid input detected at '^' marker.

R1 (config-router) #area 10 filter-list prefix NH in
```

```
Summary Net Link States (Area 10)
                                                  Seq# Checksum
0x80000001 0x0080A1
                  ADV Router
                                    Age
528
473
Link ID
10.1.1.1
10.2.2.2
                  10.1.1.1
                  10.1.1.1
                                                   0x80000001 0x00C351
10.44.44.44
                  10.1.1.1
                                     391
                                                   0x80000001 0x00B8D3
172.16.12.0
                  10.1.1.1
                                     543
                                                   0x80000001 0x0074E8
172.16.24.0
                                     473
                                                   0x80000001 0x0054F2
                  10.1.1.1
192.168.4.4 I
                                     391
                                                   0x80000001 0x00E6C2
                  10.1.1.1
```

\*\* now its not their in database table

#### **CMD**

```
R1#sh run | sec prefix-list
ip prefix-list NH seq 10 deny 10.4.4.4/32
ip prefix-list NH seq 20 permit 0.0.0.0/0 le 32
R1#sh run | sec ospf
router ospf 10
log-adjacency-changes
area 10 filter-list prefix NH in
network 10.1.1.1 0.0.0.0 area 0
network 172.16.12.0 0.0.0.255 area 0
network 172.16.13.0 0.0.0.255 area 10
R1#
```

```
R2(config)#
R2(config)#router ospf 10
R2(config-router)#area 40 range 10.44.44.44 255.255.255.255 not-advertise
R2(config-router)#
```

```
Summary Net Link States (Area 0)
                ADV Router
                                 Age
609
                                                          Checksum
10.3.3.3
                                              0x80000001 0x00A26F
                10.1.1.1
10.4.4.4
                10.2.2.2
                                              0x80000001 0x006C9F
                                 645
                                              0x80000001 0x00C0F6
10.33.33.33
                10.1.1.1
                                 609
                10.1.1.1
                                              0x80000001 0x0069F2
72.16.13.0
                                 794
                                              0x80000001 0x00DA73
 72.16.24.0
                10.2.2.2
                                 755
   .168.4.4
                10.2.2.2
                                              0x80000001 0x006D43
```

## we want R3 not advertise the 10.33.33.33 network

```
R3#config t
Enter configuration commands, one per line. End with CNTL/Z.
R3(config)#
R3(config)#int loop 2
R3(config-if)#ip ospf pre
R3(config-if)#ip ospf prefix-suppression]
```

```
On Production environment
#cmd
#R1
Int range f0/0 – 1 , loop 1
Ip ospf area 0
Int range f0/0 – 1
Ip ospf network point-2-point
```

\*\* bcz we want both the interface of a router should participate in ospf process for desired output

# **OSPF Completed**

<sup>\*\*</sup> now its not advertise the network to R1

<sup>\*\*</sup> now we wont receive 10.33.33.33 on R1