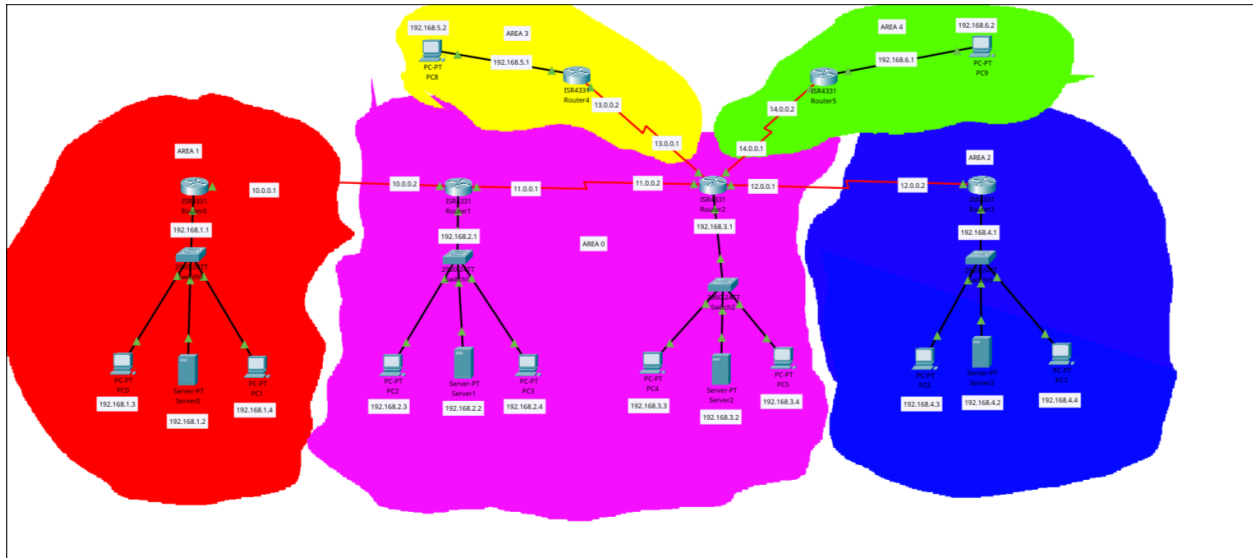


Praneesh R V
CB.SC.U4CYS23036

Assignment - 7 DHCP and OSPF



Server - 1

DHCP

Interface: FastEthernet0 Service: ☒ On ☐ Off

Pool Name: serverPool

Default Gateway: 192.168.1.1

DNS Server: 0.0.0.0

Start IP Address: 192 168 1 3

Subnet Mask: 255 255 255 0

Maximum Number of Users: 253

TFTP Server: 0.0.0.0

WLC Address: 0.0.0.0

| Pool Name | Default Gateway | DNS Server | Start IP Address | Subnet Mask | Max User | TFTP Server | WLC Address |
|------------|-----------------|------------|------------------|---------------|----------|-------------|-------------|
| serverPool | 192.168.1.1 | 0.0.0.0 | 192.168.1.3 | 255.255.255.0 | 253 | 0.0.0.0 | 0.0.0.0 |

Server - 2

DHCP

Interface

FastEthernet0

Service ☒ On ☐ Off

Pool Name

serverPool

Default Gateway

192.168.2.1

DNS Server

0.0.0.0

Start IP Address :

192

168

2

3

Subnet Mask:

255

255

255

0

Maximum Number of Users :

253

TFTP Server:

0.0.0.0

WLC Address:

0.0.0.0

Add

Save

Remove

| Pool Name | Default Gateway | DNS Server | Start IP Address | Subnet Mask | Max User | TFTP Server | WLC Address |
|------------|-----------------|------------|------------------|---------------|----------|-------------|-------------|
| serverPool | 192.168.2.1 | 0.0.0.0 | 192.168.2.3 | 255.255.255.0 | 253 | 0.0.0.0 | 0.0.0.0 |

Server -3

DHCP

Interface

FastEthernet0

Service ☒ On ☐ Off

Pool Name

serverPool

Default Gateway

192.168.3.1

DNS Server

0.0.0.0

Start IP Address :

192

168

3

3

Subnet Mask:

255

255

255

0

Maximum Number of Users :

253

TFTP Server:

0.0.0.0

WLC Address:

0.0.0.0

Add

Save

Remove

| Pool Name | Default Gateway | DNS Server | Start IP Address | Subnet Mask | Max User | TFTP Server | WLC Address |
|------------|-----------------|------------|------------------|---------------|----------|-------------|-------------|
| serverPool | 192.168.3.1 | 0.0.0.0 | 192.168.3.3 | 255.255.255.0 | 253 | 0.0.0.0 | 0.0.0.0 |

Server - 4

DHCP

Interface

FastEthernet0

Service ☒ On ☐ Off

Pool Name

serverPool

Default Gateway

192.168.4.1

DNS Server

0.0.0.0

Start IP Address :

192

168

4

3

Subnet Mask:

255

255

255

0

Maximum Number of Users :

253

TFTP Server:

0.0.0.0

WLC Address:

0.0.0.0

Add

Save

Remove

| Pool Name | Default Gateway | DNS Server | Start IP Address | Subnet Mask | Max User | TFTP Server | WLC Address |
|------------|-----------------|------------|------------------|---------------|----------|-------------|-------------|
| serverPool | 192.168.4.1 | 0.0.0.0 | 192.168.4.3 | 255.255.255.0 | 253 | 0.0.0.0 | 0.0.0.0 |

Area 0 - routers

```
Router(config)#do show ip route ospf
O 12.0.0.0 [110/128] via 11.0.0.2, 00:07:30, Serial0/1/1
O 13.0.0.0 [110/128] via 11.0.0.2, 00:07:30, Serial0/1/1
O 14.0.0.0 [110/128] via 11.0.0.2, 00:07:30, Serial0/1/1
O IA 192.168.1.0 [110/65] via 10.0.0.1, 00:07:45, Serial0/1/0
O 192.168.3.0 [110/65] via 11.0.0.2, 00:07:30, Serial0/1/1
O IA 192.168.4.0 [110/129] via 11.0.0.2, 00:07:30, Serial0/1/1
O IA 192.168.5.0 [110/129] via 11.0.0.2, 00:07:30, Serial0/1/1
O IA 192.168.6.0 [110/129] via 11.0.0.2, 00:07:30, Serial0/1/1

Router(config)#
```

```
Router(config)#do show ip route ospf
O 10.0.0.0 [110/128] via 11.0.0.1, 00:08:13, Serial0/1/0
O IA 192.168.1.0 [110/129] via 11.0.0.1, 00:08:13, Serial0/1/0
O 192.168.2.0 [110/65] via 11.0.0.1, 00:08:13, Serial0/1/0
O IA 192.168.4.0 [110/65] via 12.0.0.2, 00:08:23, Serial0/1/1
O IA 192.168.5.0 [110/65] via 13.0.0.2, 00:08:03, Serial0/2/0
O IA 192.168.6.0 [110/65] via 14.0.0.2, 00:08:23, Serial0/2/1
```

Area 1 - router

```
Router>enable
Router#config terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#do show ip route ospf
O 11.0.0.0 [110/128] via 10.0.0.2, 00:06:12, Serial0/1/0
O 12.0.0.0 [110/192] via 10.0.0.2, 00:06:02, Serial0/1/0
O 13.0.0.0 [110/192] via 10.0.0.2, 00:06:02, Serial0/1/0
O 14.0.0.0 [110/192] via 10.0.0.2, 00:06:02, Serial0/1/0
O 192.168.2.0 [110/65] via 10.0.0.2, 00:06:12, Serial0/1/0
O 192.168.3.0 [110/129] via 10.0.0.2, 00:06:02, Serial0/1/0
O IA 192.168.4.0 [110/193] via 10.0.0.2, 00:06:02, Serial0/1/0
O IA 192.168.5.0 [110/193] via 10.0.0.2, 00:06:02, Serial0/1/0
O IA 192.168.6.0 [110/193] via 10.0.0.2, 00:06:02, Serial0/1/0
```

Area 2 - router

```
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#do show ip route ospf
O 10.0.0.0 [110/192] via 12.0.0.1, 00:08:35, Serial0/1/0
O 11.0.0.0 [110/128] via 12.0.0.1, 00:08:35, Serial0/1/0
O 13.0.0.0 [110/128] via 12.0.0.1, 00:08:35, Serial0/1/0
O 14.0.0.0 [110/128] via 12.0.0.1, 00:08:35, Serial0/1/0
O IA 192.168.1.0 [110/193] via 12.0.0.1, 00:08:35, Serial0/1/0
O 192.168.2.0 [110/129] via 12.0.0.1, 00:08:35, Serial0/1/0
O 192.168.3.0 [110/65] via 12.0.0.1, 00:08:35, Serial0/1/0
O IA 192.168.5.0 [110/129] via 12.0.0.1, 00:08:35, Serial0/1/0
O IA 192.168.6.0 [110/129] via 12.0.0.1, 00:08:35, Serial0/1/0
```













Area - 3 router

```
Router(config)#do show ip route ospf
O 10.0.0.0 [110/192] via 13.0.0.1, 00:09:20, Serial0/1/0
O 11.0.0.0 [110/128] via 13.0.0.1, 00:09:20, Serial0/1/0
O 12.0.0.0 [110/128] via 13.0.0.1, 00:09:20, Serial0/1/0
O 14.0.0.0 [110/128] via 13.0.0.1, 00:09:20, Serial0/1/0
O IA 192.168.1.0 [110/193] via 13.0.0.1, 00:09:20, Serial0/1/0
O 192.168.2.0 [110/129] via 13.0.0.1, 00:09:20, Serial0/1/0
O 192.168.3.0 [110/65] via 13.0.0.1, 00:09:20, Serial0/1/0
O IA 192.168.4.0 [110/129] via 13.0.0.1, 00:09:20, Serial0/1/0
O IA 192.168.6.0 [110/129] via 13.0.0.1, 00:09:20, Serial0/1/0
```

Area 4 router

```
Router(config)#do show ip route ospf
O 10.0.0.0 [110/192] via 14.0.0.1, 00:10:07, Serial0/1/0
O 11.0.0.0 [110/128] via 14.0.0.1, 00:10:07, Serial0/1/0
O 12.0.0.0 [110/128] via 14.0.0.1, 00:10:07, Serial0/1/0
O 13.0.0.0 [110/128] via 14.0.0.1, 00:10:07, Serial0/1/0
O IA 192.168.1.0 [110/193] via 14.0.0.1, 00:10:07, Serial0/1/0
O 192.168.2.0 [110/129] via 14.0.0.1, 00:10:07, Serial0/1/0
O 192.168.3.0 [110/65] via 14.0.0.1, 00:10:07, Serial0/1/0
O IA 192.168.4.0 [110/129] via 14.0.0.1, 00:10:07, Serial0/1/0
O IA 192.168.5.0 [110/129] via 14.0.0.1, 00:09:57, Serial0/1/0
```

Packets

| PDU List Window | | | | | | | | | | |
|---|-------------|--------|-------------|------|---|-----------|----------|-----|--------|----------|
| Fire | Last Status | Source | Destination | Type | Color | Time(sec) | Periodic | Num | Edit | Delete |
|  | Successful | PC2 | PC1 | ICMP |  | 0.000 | N | 0 | (edit) | (delete) |
|  | Successful | PC3 | PC6 | ICMP |  | 0.000 | N | 1 | (edit) | (delete) |
|  | Successful | PC4 | PC8 | ICMP |  | 0.000 | N | 2 | (edit) | (delete) |
|  | Successful | PC2 | PC9 | ICMP |  | 0.000 | N | 3 | (edit) | (delete) |
|  | Successful | PC1 | PC9 | ICMP |  | 0.000 | N | 4 | (edit) | (delete) |
|  | Successful | PC6 | PC8 | ICMP |  | 0.000 | N | 5 | (edit) | (delete) |