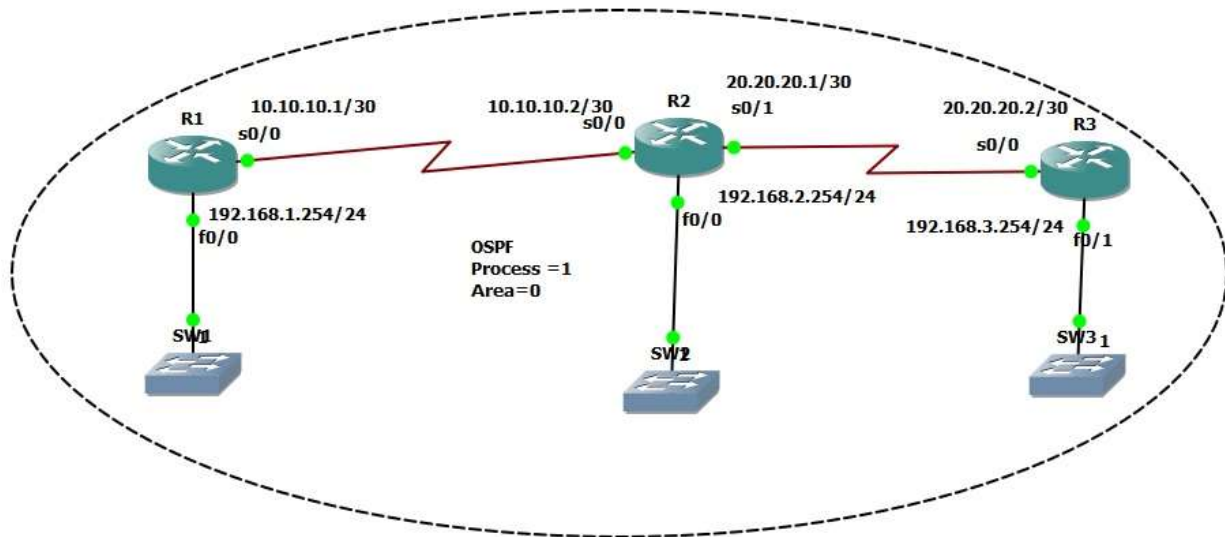




Lab 15 – OSPF-Authentication



```
R1(config)#interface s0/0
```

```
R1(config-if)#ip ospf authentication
```

```
R1(config-if)#ip ospf authentication-key jodoi12
```

```
R2(config)#interface s0/0
```

```
R2(config-if)#ip ospf authentication-key jodoi12
```

```
R2(config)#router ospf 1
```

```
R2(config-router)#area 0 authentication
```

R1#show ip route ospf

20.0.0.0/30 is subnetted, 1 subnets

- O 20.20.20.0 [110/259] via 10.10.10.2, 00:00:47, Serial0/0
- O 192.168.2.0/24 [110/205] via 10.10.10.2, 00:00:47, Serial0/0
- O 192.168.3.0/24 [110/269] via 10.10.10.2, 00:00:47, Serial0/0

R1(config)#interface s0/0

R1(config-if)#no ip ospf authentication-key jodoi12

R1(config-if)#ip ospf authentication-key jodoi123

R1#debug ip ospf adj

OSPF adjacency events debugging is on

*Mar 1 00:13:13.483: OSPF: Rcv pkt from 10.10.10.2,

Serial0/0 : Mismatch Authentication Key - Clear Text

*Mar 1 00:14:02.383: OSPF: 2 Way Communication to 192.168.2.254 on Serial0/0, state 2WAY

*Mar 1 00:14:02.383: OSPF: Send DBD to 192.168.2.254 on Serial0/0 seq 0x1188 opt 0x52 flag 0x7 len 32

*Mar 1 00:14:02.383: OSPF: Rcv DBD from 192.168.2.254 on Serial0/0 seq 0x134B opt 0x52 flag 0x7 len 32

mtu 1500 state EXSTART

*Mar 1 00:14:02.383: OSPF: NBR Negotiation Done. We are the SLAVE

*Mar 1 00:14:02.383: OSPF: Send DBD to 192.168.2.254 on Serial0/0 seq 0x134B opt 0x52 flag 0x2 len 92

*Mar 1 00:14:02.383: OSPF: Rcv DBD from 192.168.2.254 on Serial0/0 seq 0x134C opt 0x52 flag 0x3 len 92

```
R2(config)#interface s0/0
```

```
R2(config-if)#ip ospf authentication-key jodoi123
```

```
R2(config)#interface s0/1
```

```
R2(config-if)#ip ospf authentication-key jodoi12
```

```
R2(config)#router ospf 1
```

```
R2(config-router)#area 0 authentication
```

```
R3(config)#interface s0/0
```

```
R3(config-if)#ip ospf authentication
```

```
R3(config-if)#ip ospf authentication-key jodoi12
```

```
R1#show ip route ospf
```

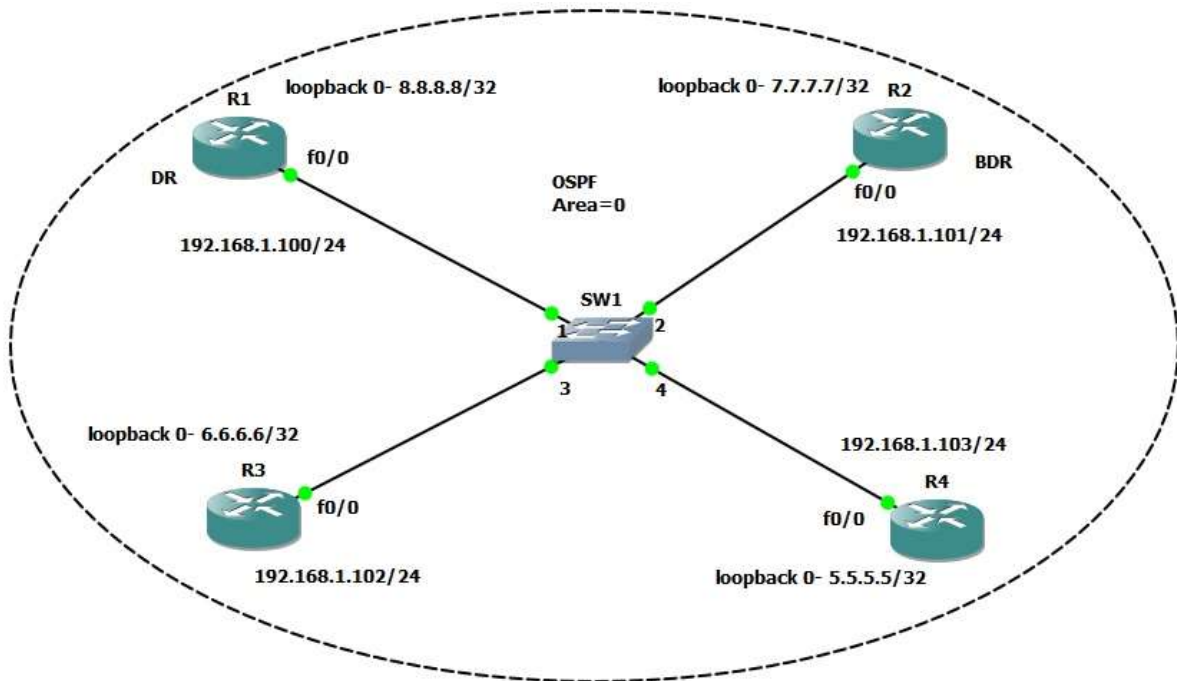
```
20.0.0.0/30 is subnetted, 1 subnets
```

```
O 20.20.20.0 [110/259] via 10.10.10.2, 00:00:47, Serial0/0
```

```
O 192.168.2.0/24 [110/205] via 10.10.10.2, 00:00:47, Serial0/0
```

```
O 192.168.3.0/24 [110/269] via 10.10.10.2, 00:00:47, Serial0/0
```

Lab 16 – OSPF-DR& BDR



```
R1(config)#router ospf 1
```

```
R1(config-router)#network 192.168.1.0 0.0.0.255 area 0
```

```
R1(config-router)#network 8.8.8.8 0.0.0.0 area 0
```

```
R2(config)#router ospf 1
```

```
R2(config-router)#network 192.168.1.0 0.0.0.255 area 0
```

```
R2(config-router)#network 7.7.7.7 0.0.0.0 area 0
```

```
R3(config)#router ospf 1
```

```
R3(config-router)#network 192.168.1.0 0.0.0.255 area 0
```

```
R3(config-router)#network 6.6.6.6 0.0.0.0 area 0
```

```
R4(config)#router ospf 1
```

```
R4(config-router)#network 192.168.1.0 0.0.0.255 area 0
```

```
R4(config-router)#network 5.5.5.5 0.0.0.0 area 0
```

```
R1#show ip ospf neighbor
```

| Neighbor ID | Pri | State | Dead Time | Address | Interface |
|-------------|-----|--------------|-----------|---------------|-----------------|
| 5.5.5.5 | 1 | FULL/DROTHER | 00:00:33 | 192.168.1.103 | FastEthernet0/0 |
| 6.6.6.6 | 1 | FULL/DROTHER | 00:00:36 | 192.168.1.102 | FastEthernet0/0 |
| 7.7.7.7 | 1 | FULL/BDR | 00:00:36 | 192.168.1.101 | FastEthernet0/0 |

```
R2#show ip ospf neighbor
```

| Neighbor ID | Pri | State | Dead Time | Address | Interface |
|-------------|-----|--------------|-----------|---------------|-----------------|
| 5.5.5.5 | 1 | FULL/DROTHER | 00:00:36 | 192.168.1.103 | FastEthernet0/0 |
| 6.6.6.6 | 1 | FULL/DROTHER | 00:00:39 | 192.168.1.102 | FastEthernet0/0 |
| 8.8.8.8 | 1 | FULL/DR | 00:00:34 | 192.168.1.100 | FastEthernet0/0 |

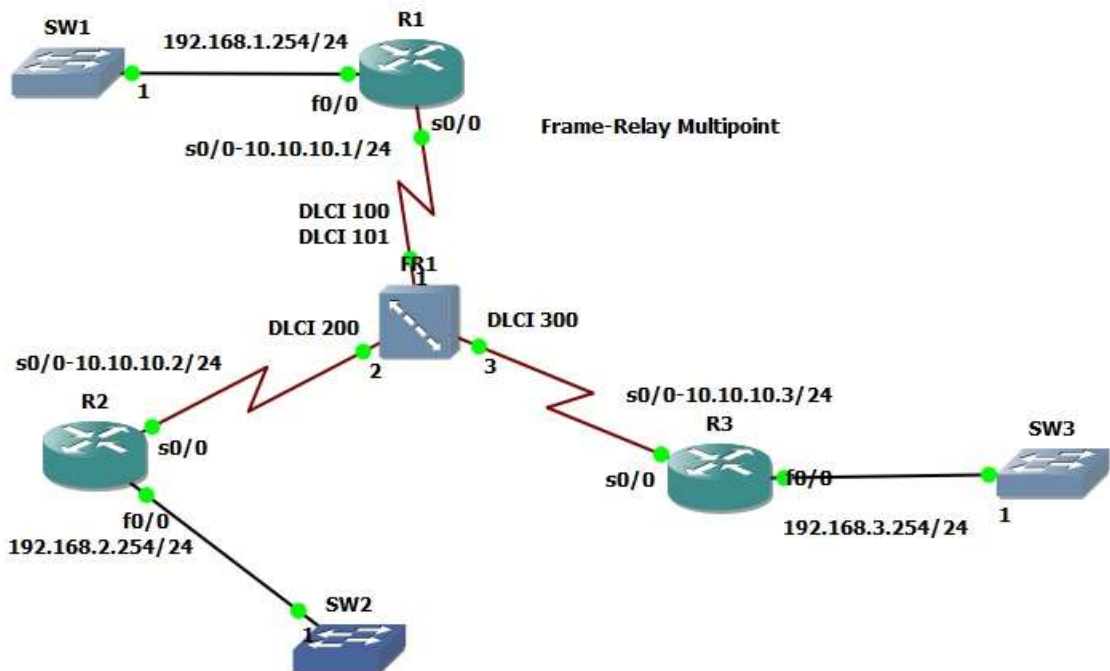
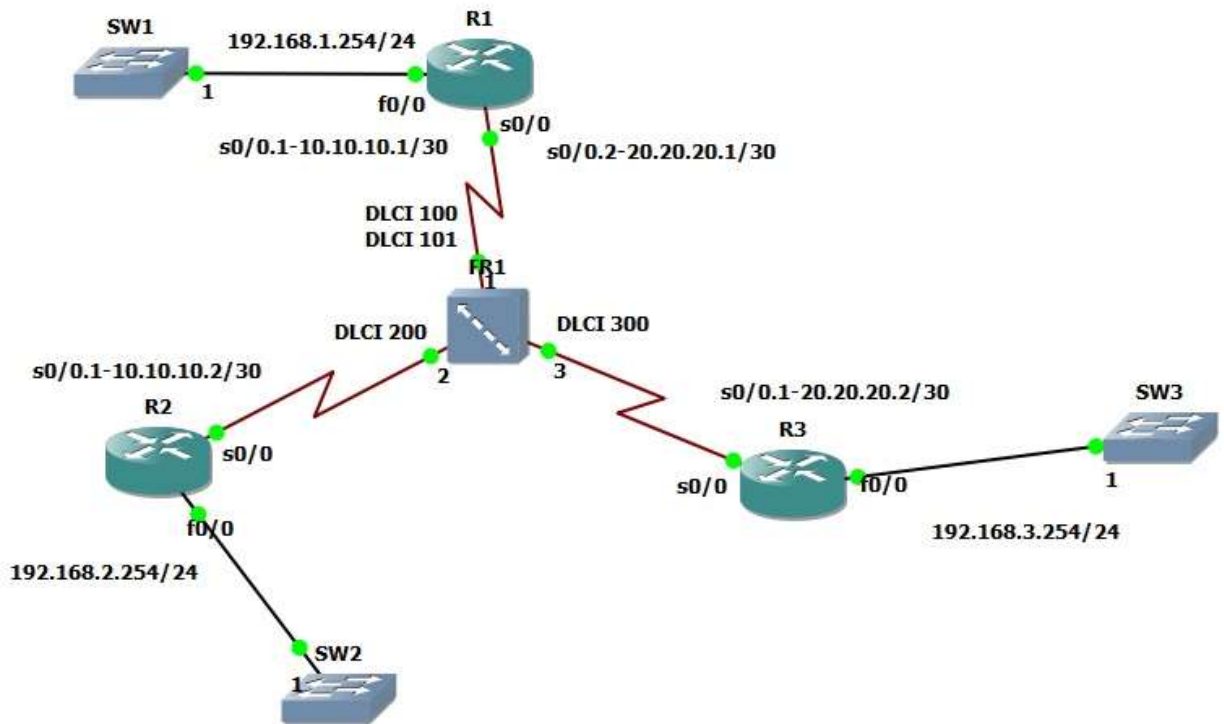
```
R3#show ip ospf neighbor
```

| Neighbor ID | Pri | State | Dead Time | Address | Interface |
|-------------|-----|--------------|-----------|---------------|-----------------|
| 5.5.5.5 | 1 | 2WAY/DROTHER | 00:00:36 | 192.168.1.103 | FastEthernet0/0 |
| 7.7.7.7 | 1 | FULL/BDR | 00:00:38 | 192.168.1.101 | FastEthernet0/0 |
| 8.8.8.8 | 1 | FULL/DR | 00:00:34 | 192.168.1.100 | FastEthernet0/0 |

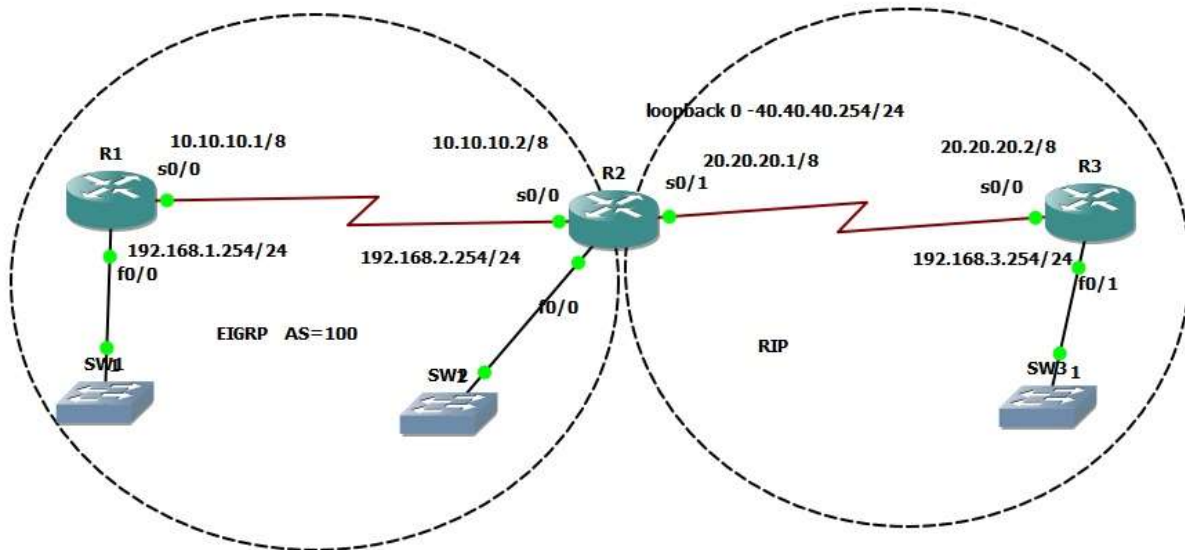
```
R4#show ip ospf neighbor
```

| Neighbor ID | Pri | State | Dead Time | Address | Interface |
|-------------|-----|--------------|-----------|---------------|-----------------|
| 6.6.6.6 | 1 | 2WAY/DROTHER | 00:00:31 | 192.168.1.102 | FastEthernet0/0 |
| 7.7.7.7 | 1 | FULL/BDR | 00:00:31 | 192.168.1.101 | FastEthernet0/0 |
| 8.8.8.8 | 1 | FULL/DR | 00:00:36 | 192.168.1.100 | FastEthernet0/0 |

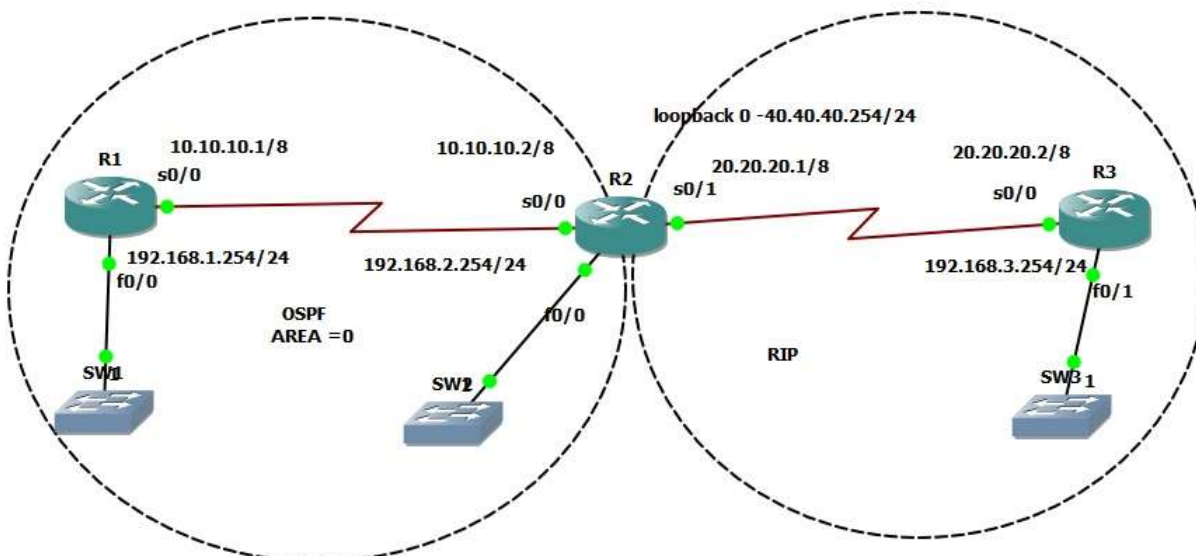
Lab 17 – OSPF-Frame-Relay



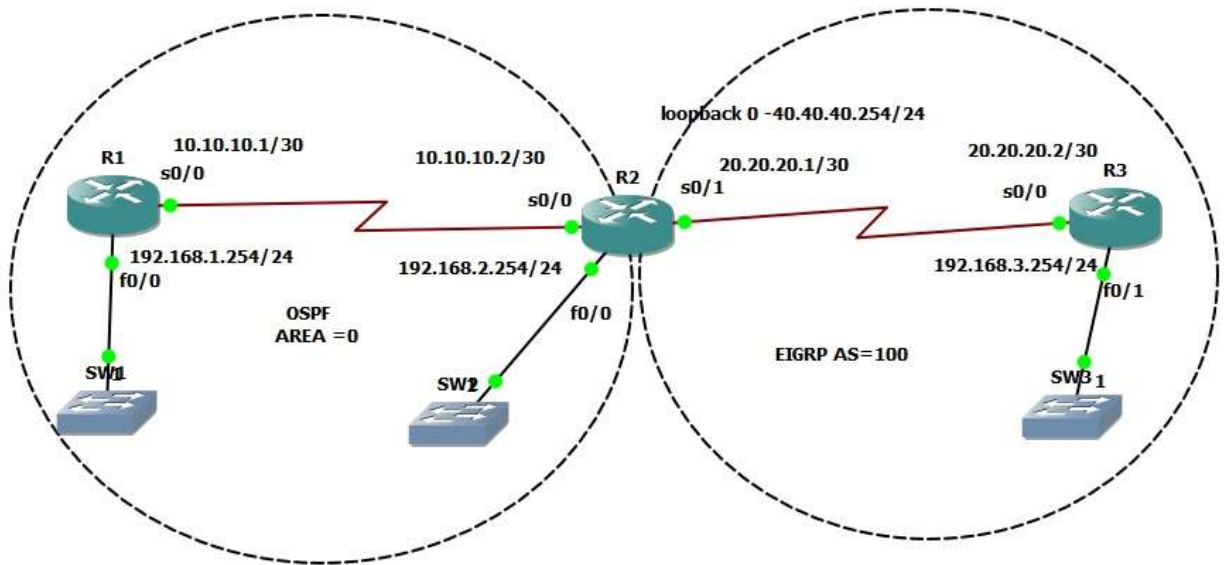
Lab 18 – Redistribute EIGRP & RIP



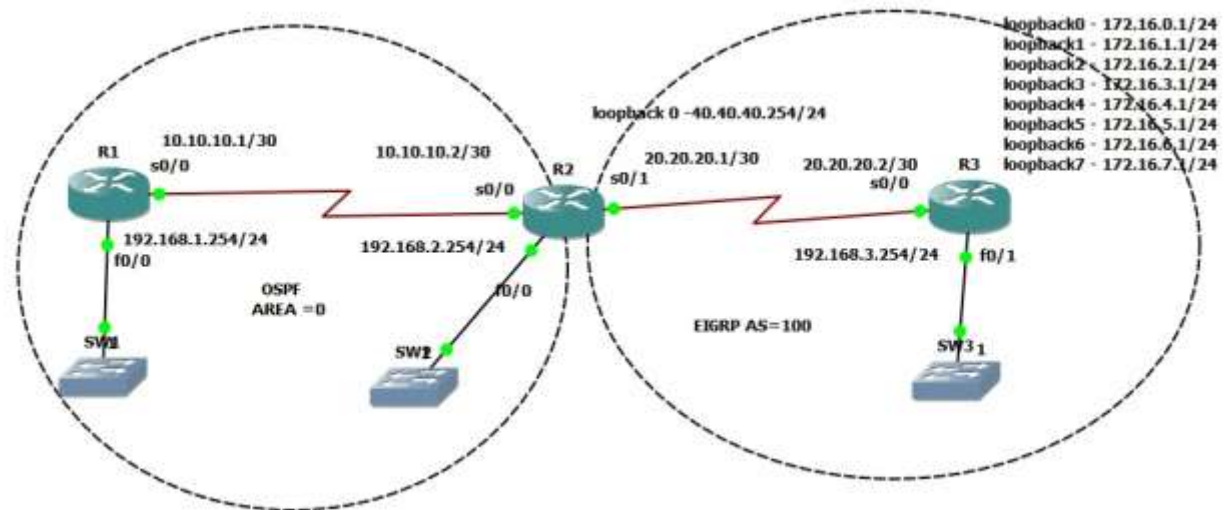
Lab 19 – Redistribute OSPF & RIP



Lab 20 – Redistribute OSPF & EIGRP



Lab 21 – Distribute-List



Lab 22 – Prefix-List

(Network Diagram Based On Lab 22)

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