

### OPEN SHORTEST PATH FIRST

```
Router(config)#router ospf <proceso>
Router(config-router)#network <red> <wildcard> area <proceso>
Router(config-router)#router-id <0.0.0.0>
Router(config-router)#default-information originate
Router(config-router)#redistribute static subnets
Router(config-router)#passive-interface <interfaz>
Router(config-router)#auto-cost reference-bandwidth <mbit por sec>
Router(config)#interface <nombre interfaz> <numero de interfaz>
Router(config-if)#ip ospf hello-interval segundos
Router(config-if)#ip ospf dead-interval segundos
Router(config-if)#ip ospf priority <1-255>
Router(config-if)#ip ospf cost <1-65535> Cost
Router#show ip ospf interface
Router#show ip protocols
Router#show ip ospf neighbor
Router#show ip ospf interface
Router#show ip ospf
Router#show ip route ospf
Router#clear ip ospf [ id-proceso ] process:
```

### OSPFV3

```
Router(config)#ipv6 unicast-routing
Router(config)#ipv6 router ospf <proceso>
Router(config-rtr)#router-id <0.0.0.0>
Router(config-if)#ipv6 ospf 1 area 0
Router(config-if)#ipv6 ospf dead-interval
Router(config-if)#ipv6 ospf hello-interval
Router(config-if)#ipv6 ospf priority <prioridad 1-255>
Router(config-if)#ipv6 ospf cost <1-65535> Cost
```



### seguridad ospf autentificacion

#### GLOBAL

```
Router(config)#router ospf <proceso>
```

```
Router(config-router)#ip ospf message-digest-keyclave md5 contraseña
```

```
Router(config-router)#area "id-área" authentication message-digest
```

#### POR INTERFAZ

```
Router(config)#interface <nombre interfaz> <numero de interfaz>
```

```
Router(config-if)#ip ospf message-digest-key clave md5 contraseña
```

```
Router(config-if)#ip ospf authentication message-digest
```

```
Router#show ip ospf interface
```

### PAT

```
Router(config)# access-list <proceso acl> permit <red> <wildcard>
```

```
Router(config)# ip nat inside source list <proceso> interface <nonbreintpuerto> overload
```

```
Router(config)#interface <nombre interfaz> <numero de interfaz>
```

```
Router(config-if)#ip nat outside
```

```
Router(config)#interface <nombre interfaz> <numero de interfaz>
```

```
Router(config-if)#ip nat inside
```

### NAT estatico

```
Router(config)# ip nat inside source static <ip LOCAL> <ip publica>
```

```
Router(config)#interface <nombre interfaz> <numero de interfaz>
```

```
Router(config-if)#ip nat inside
```

```
Router(config)#interface <nombre interfaz> <numero de interfaz>
```

```
Router(config-if)#ip nat outside
```

### NAT DINAMICA

```
Router(config)# ip nat pool <NOMBRE> <ip inicio> <ip termino> netmask <mask>
```

```
Router(config)# access-list procesoacl permit <red> <wildcard>*
```

```
Router(config)# ip nat inside source list <ip ACL> pool <NOMBRE>
```

```
Router(config)#interface <nombre interfaz> <numero de interfaz>
```

```
Router(config-if)# ip nat inside
```

```
Router(config)#interface <nombre interfaz> <numero de interfaz>
```

```
Router(config-if)# ip nat outside
```



### eigrp

```
Router(config)#router eigrp <as>
```

```
Router(config-router)#no auto-summary
```

```
Router(config-router)#network <network address> ip full classless
```

```
Router(config-router)#network <network address> <willcard> ip specific
```

```
Router(config-router)# maximum-paths valor
```

```
Router(config-router)#redistribute static
```

```
Router#show ip eigrp neighbors
```

```
Router#show ip protocols
```

```
Router#show ip route eigrp
```

```
Router(config-if)# ip hold-time eigrp <número-as> <segundos>
```

```
Router(config-if)# ip hello-interval eigrp <número-as> <segundos>
```

```
Router(config-if)# ipv6 hello-interval eigrp <número-as> <segundos>
```

```
Router(config-if)# ipv6 hold-time eigrp <número-as> <segundos>
```

```
Router(config-router)#traffic-share balanced <balanceo de trafico>
```

```
Router(config-router)# variance <balanceo de carga>
```

```
Router(config-if)# ip summary-address eigrp as-number network-address subnet-mask rutas resumidas
```

```
Router# show interfaces
```

```
Router#show ip eigrp topology
```

### Seguridad Eigrp

```
Router(config)#key chain <nameofchain>
```

```
Router(config-keychain)#key <key-id>
```

```
Router(config-keychain-key)#key-string <key-string-text>
```

```
Router(config-if)#ip authentication mode eigrp <AS number> md5
```

```
Router(config-if)#ip authentication key-chain eigrp <AS number> < name of chain>
```

### DHCP



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