

Static Route Syntax

```
ip route < Dest NW> <Dest NW SNM> < Exit-interface-ID> <Nexthop ip>
<AD>
```

```
Directly attached static Route: P2p (Not recommended on Ethernet ) -----
----- ip route < Dest NW> <Dest NW SNM> <
Exit-interface-ID> ip route 192.168.2.0 255.255.255.0 s0/2 < Network based>
ip route 192.168.2.200 255.255.255.255 s0/2 <host based>
```

```
Recursive static Route: p2p,Ethernet ----- ip route <
Dest NW> <Dest NW SNM> <Nexthop ip> ip route 192.168.2.0 255.255.255.0
1.1.1.2 < Network based> ip route 192.168.2.200 255.255.255.255 1.1.1.2 <host
based>
```

```
S 192.168.2.0 /24 [1/0] via 1.1.1.2 C 1.1.1.0/24 via s2/0
```

```
Fully specified static route < p2p,Ethernet>: -----
----- ip route < Dest NW> <Dest NW SNM> < Exit-interface-
ID> <Nexthop ip> ip route 192.168.2.0 255.255.255.0 s2/0 1.1.1.2 < Network
based> ip route 192.168.2.200 255.255.255.255 s2/0 1.1.1.2 <host based>
```

Floating route

```
AD Static route 1 Range 2-254 AD 255 unreachable
```

```
=====
R1: conf t int e0/0 Desc conn to LAN ip add 10.1.1.254 255.255.255.0 no shut
int s2/0 Desc conn to R2 ip add 1.1.1.0 255.255.255.254 no shut int e0/1 ip add
2.2.2.1 255.255.255.0 no sh exit
```

```
pc1 ip 10.1.1.1 10.1.1.254 Pc2 ip 10.1.1.2 10.1.1.254
```

```
R2: conf t int e0/0 Desc conn to LAN ip add 192.168.2.254 255.255.255.0 no sh
int s2/3 Desc conn to R1 ip add 1.1.1.1 255.255.255.254 no sh int e1/3 ip add
2.2.2.2 255.255.255.0 no sh exit
```

```
Pc2 ip 192.168.2.2 192.168.2.254 pc3 ip 192.168.2.200 192.168.2.254
```

```
Static route: DAS R2 ip route 10.1.1.0 255.255.255.0 s2/3 R1:host based ip
route 192.168.2.200 255.255.255.255 s2/0
```

Recursive static

```
R2 ip route 10.1.1.0 255.255.255.0 2.2.2.1 R1: ip route 192.168.2.0 255.255.255.0
2.2.2.2
```

```
Multihop R1 ip route 192.168.3.0 255.255.255.0 11.0.0.2 (R3 ip multihop) ip
route 11.0.0.0 255.0.0.0 10.0.0.2
```

```
S 192.168.3.0/24 [1/0] via 11.0.0.2 S 11.0.0.0/8 [1/0] via 10.0.0.2 C 10.0.0.0/8 is
directly connected, GigabitEthernet0/1
```

Fully Specified Static route: ----- R2 ip route 10.1.1.0
255.255.255.0 e1/3 2.2.2.1 R1: ip route 192.168.2.0 255.255.255.0 e0/0 2.2.2.2

=====
Floating static route R1 R1 conf t int g0/0 Desc conn to LAN ip add 10.1.1.254
255.255.255.0 no sh int g1/0 Desc primary link ip add 1.1.1.1 255.255.255.0 no
sh int s4/0 Desc sec link ip add 2.2.2.1 255.255.255.0 no sh exit

R2: R1 conf t int g0/0 Desc conn to LAN ip add 10.1.1.254 255.255.255.0 no sh
int g1/0 Desc primary link ip add 1.1.1.1 255.255.255.0 no sh int s4/0 Desc sec
link ip add 2.2.2.1 255.255.255.0 no sh exit

int range g0/0,g1/0 ip ospf 1 area 0 exit

Normal static route ip route 10.1.1.0 255.255.255.0 s4/0 2.2.2.2

R2: conf t int g0/0 Desc conn to LAN ip add 192.168.2.254 255.255.255.0 no sh
int g3/0 Desc primary link ip add 1.1.1.2 255.255.255.0 no sh int s4/3 Desc sec
link ip add 2.2.2.2 255.255.255.0 no sh exit

int range g0/0,g3/0 ip ospf 1 area 0 exit

Normal static route ip route 192.168.2.0 255.255.255.0 s4/3 2.2.2.1