

```

r2>en
r2#conf t
Enter configuration commands, one per line. End with CNTL/Z.
r2(config)#int s0/0/0
r2(config-if)#ip address 10.100.100.5 255.255.255.252
r2(config-if)#no shutdown
r2(config-if)#exit
r2(config)#int s0/0/1
r2(config-if)#ip address 10.100.100.2 255.255.255.252
r2(config-if)#no shutdown
r2(config-if)#exit
r2(config)#int g0/1
r2(config-if)#ip address 192.168.4.1 255.255.255.0
r2(config-if)#no shut
r2(config-if)#exit
r2(config)#int g0/0
r2(config-if)#ip address 192.168.3.1 255.255.255.0
r2(config-if)#no shut
r2(config)#ip route 192.168.5.0 255.255.255.0 10.100.100.6
r2(config)#ip route 192.168.6.0 255.255.255.0 10.100.100.6
r2(config)#ip route 192.168.2.0 255.255.255.0 10.100.100.1
r2(config)#ip route 192.168.1.0 255.255.255.0 10.100.100.1
r2(config)#ip route 0.0.0.0 0.0.0.0 10.100.100.6
r2(config)#ip route 0.0.0.0 0.0.0.0 10.100.100.1 5
r2(config)#end

```

r2#show ip interface brief

Interface	IP-Address	OK?	Method	Status	Protocol
Embedded-Service-Engine0/0	unassigned	YES	unset	administratively down	down
GigabitEthernet0/0	192.168.3.1	YES	manual	up	up
GigabitEthernet0/1	192.168.4.1	YES	manual	down	down
Serial0/0/0	10.100.100.5	YES	manual	up	up
Serial0/0/1	10.100.100.2	YES	manual	up	up

r2#show ip route static

Codes: L - local, C - connected, S - static, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2
i - IS-IS, su - IS-IS summary, L1 - IS-IS level-1, L2 - IS-IS level-2
ia - IS-IS inter area, * - candidate default, U - per-user static route
o - ODR, P - periodic downloaded static route, H - NHRP, I - LISP
a - application route
+ - replicated route, % - next hop override

Gateway of last resort is 10.100.100.6 to network 0.0.0.0

```
S* 0.0.0.0/0 [1/0] via 10.100.100.6
S 192.168.1.0/24 [1/0] via 10.100.100.1
S 192.168.2.0/24 [1/0] via 10.100.100.1
S 192.168.5.0/24 [1/0] via 10.100.100.6
S 192.168.6.0/24 [1/0] via 10.100.100.6
```

r2#show cdp neighbors

Capability Codes: R - Router, T - Trans Bridge, B - Source Route Bridge
S - Switch, H - Host, I - IGMP, r - Repeater, P - Phone,
D - Remote, C - CVTA, M - Two-port Mac Relay

Device ID	Local Intrfce	Holdtme	Capability	Platform	Port ID
Switch	Gig 0/0	175	S I	WS-C2960-	Fas 0/23
R3	Ser 0/0/0	155	R B S I	CISCO1941	Ser 0/0/1
R1	Ser 0/0/1	158	R B S I	CISCO1941	Ser 0/0/0

Total cdp entries displayed : 3

```
r2#traceroute 192.168.1.10
Type escape sequence to abort.
Tracing the route to 192.168.1.10
VRF info: (vrf in name/id, vrf out name/id)
 1 10.100.100.1 0 msec 0 msec 0 msec
 2 192.168.1.10 0 msec 0 msec 0 msec
r2#
```