

```
R1
conf t
int e0/0
Desc conn to R2
ip add 10.12.1.1 255.255.255.0
no sh
int lo0
Desc indirect neig with R3
ip add 1.1.1.1 255.255.255.0
int lo 1
Desc LAN
ip add 10.1.1.1 255.255.255.0
exit
```

```
Router bgp 100
bgp router-id 1.1.1.1
neig 3.3.3.3 remote-as 200
neig 3.3.3.3 update-source lo0
neig 3.3.3.3 ebgp-multihop
net 10.1.1.0 m 255.255.255.0
exit
```

```
ip route 3.3.3.3 255.255.255.255 e0/0 10.12.1.2
```

```
R2:
conf t
int e0/0
ip add 10.12.1.2 255.255.255.0
no sh
int e0/1
ip add 10.23.1.2 255.255.255.0
no sh
exit
```

```
ip route 1.1.1.1 255.255.255.255 e0/0 10.12.1.1
ip route 3.3.3.3 255.255.255.255 e0/1 10.23.1.3
```

```
R3:
conf t
int e0/0
ip add 10.23.1.3 255.255.255.0
no sh
int lo 0
ip add 3.3.3.3 255.255.255.0
int lo 1
ip add 30.1.1.1 255.255.255.0
exit
```

```
ip route 1.1.1.1 255.255.255.255 e0/0 10.23.1.2
```

```
router bgp 200
bgp router-id 3.3.3.3
bgp log-neighbor-changes
```

```
network 30.1.1.0 mask 255.255.255.0
neighbor 1.1.1.1 remote-as 100
neighbor 1.1.1.1 ebgp-multihop 2
neighbor 1.1.1.1 update-source Loopback0
exit
```

=====

BGP dynamic peering

HUB

```
router bgp 100
  bgp router-id 1.1.1.1
  bgp log-neighbor-changes
  bgp listen range 0.0.0.0/0 peer-group ibgp
  network 10.1.1.0 mask 255.255.255.0
  neighbor ibgp peer-group
  neighbor ibgp remote-as 100
  neighbor ibgp password CISCOBGP
  neighbor ibgp update-source Loopback0
  neighbor ibgp timers 30 90
exit
```

Spoke-1

```
Router bgp 100
neig 1.1.1.1 remote-as 100
neig 1.1.1.1 update-source lo0
neig 1.1.1.1 password CISCOBGP
net 192.168.2.0
exit
```

Spoke-2

```
Router bgp 100
neig 1.1.1.1 remote-as 100
neig 1.1.1.1 update-source lo0
neig 1.1.1.1 password CISCOBGP
net 192.168.3.0
exit
```

