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!
!
interface Loopback0
 ip address 2.2.2.2 255.255.255.255
!
interface Ethernet0/0
 description connected to lan_sw
 ip address 192.168.0.2 255.255.255.0
!
interface Ethernet0/1
 description connected to PE
 ip address 100.65.0.2 255.255.255.252
!
interface Ethernet0/2
 no ip address
 shutdown
!
interface Ethernet0/3
 no ip address
 shutdown
!
interface Ethernet1/0
 no ip address
 shutdown
!
interface Ethernet1/1
 no ip address
 shutdown
!
interface Ethernet1/2
 no ip address
 shutdown
!
interface Ethernet1/3
 no ip address
 shutdown
!
interface Serial2/0
 no ip address
 shutdown
 serial restart-delay 0
!
interface Serial2/1
 no ip address
 shutdown
 serial restart-delay 0
!
interface Serial2/2
 no ip address
 shutdown
 serial restart-delay 0
!
interface Serial2/3
 no ip address
 shutdown
 serial restart-delay 0
!
interface Serial3/0
 no ip address
 shutdown
 serial restart-delay 0

```

```
!  
interface Serial3/1  
  no ip address  
  shutdown  
  serial restart-delay 0  
!  
interface Serial3/2  
  no ip address  
  shutdown  
  serial restart-delay 0  
!  
interface Serial3/3  
  no ip address  
  shutdown  
  serial restart-delay 0  
!  
!  
router eigrp 100  
  network 192.0.0.0 0.255.255.255  
  redistribute bgp 65000 metric 100000 100 255 1 1500 route-map BGP_TO_EIGRP  
  eigrp router-id 2.2.2.2  
!  
router bgp 65000  
  bgp router-id 2.2.2.2  
  bgp log-neighbor-changes  
  timers bgp 10 30  
  neighbor 100.65.0.1 remote-as 3549  
  !  
  address-family ipv4  
    network 2.2.2.2 mask 255.255.255.255  
    redistribute eigrp 100 route-map EIGRP_TO_BGP  
    neighbor 100.65.0.1 activate  
    neighbor 100.65.0.1 send-community both  
    neighbor 100.65.0.1 soft-reconfiguration inbound  
  exit-address-family  
!  
ip forward-protocol nd  
!  
ip bgp-community new-format  
!  
no ip http server  
no ip http secure-server  
!  
!  
route-map BGP_TO_EIGRP permit 5  
  set tag 10  
!  
route-map EIGRP_TO_BGP deny 5  
  match tag 10  
!  
route-map EIGRP_TO_BGP permit 10  
  match tag 100  
  set community 65000:100 65000:999  
!  
route-map EIGRP_TO_BGP permit 20  
  match tag 200  
  set community 65000:200  
!  
!  
!  
control-plane  
!  
!  
!  
!  
!  
!  
!  
!  
line con 0  
  logging synchronous  
line aux 0  
line vty 0 4
```

```
login
transport input none
!
!
end
```

CPE#

CPE#show ip int brie

Interface	IP-Address	OK?	Method	Status	Protocol
Ethernet0/0	192.168.0.2	YES	NVRAM	up	up
Ethernet0/1	100.65.0.2	YES	NVRAM	up	up
Ethernet0/2	unassigned	YES	NVRAM	administratively down	down
Ethernet0/3	unassigned	YES	NVRAM	administratively down	down
Ethernet1/0	unassigned	YES	NVRAM	administratively down	down
Ethernet1/1	unassigned	YES	NVRAM	administratively down	down
Ethernet1/2	unassigned	YES	NVRAM	administratively down	down
Ethernet1/3	unassigned	YES	NVRAM	administratively down	down
Serial2/0	unassigned	YES	NVRAM	administratively down	down
Serial2/1	unassigned	YES	NVRAM	administratively down	down
Serial2/2	unassigned	YES	NVRAM	administratively down	down
Serial2/3	unassigned	YES	NVRAM	administratively down	down
Serial3/0	unassigned	YES	NVRAM	administratively down	down
Serial3/1	unassigned	YES	NVRAM	administratively down	down
Serial3/2	unassigned	YES	NVRAM	administratively down	down
Serial3/3	unassigned	YES	NVRAM	administratively down	down
Loopback0	2.2.2.2	YES	NVRAM	up	up

CPE#

CPE#show ip route

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, l - LISP  
a - application route  
+ - replicated route, % - next hop override

Gateway of last resort is not set

```
1.0.0.0/32 is subnetted, 1 subnets
D EX 1.1.1.1 [170/2585600] via 192.168.0.1, 1d19h, Ethernet0/0
2.0.0.0/32 is subnetted, 1 subnets
C 2.2.2.2 is directly connected, Loopback0
6.0.0.0/32 is subnetted, 1 subnets
B 6.6.6.6 [20/0] via 100.65.0.1, 1d19h
9.0.0.0/32 is subnetted, 1 subnets
D EX 9.9.9.9 [170/2585600] via 192.168.0.1, 1d19h, Ethernet0/0
10.0.0.0/30 is subnetted, 1 subnets
D EX 10.0.40.0 [170/2585600] via 192.168.0.1, 1d19h, Ethernet0/0
50.0.0.0/32 is subnetted, 1 subnets
B 50.50.50.50 [20/0] via 100.65.0.1, 1d19h
100.0.0.0/8 is variably subnetted, 3 subnets, 2 masks
C 100.65.0.0/30 is directly connected, Ethernet0/1
L 100.65.0.2/32 is directly connected, Ethernet0/1
B 100.100.100.100/32 [20/0] via 100.65.0.1, 1d19h
192.168.0.0/24 is variably subnetted, 2 subnets, 2 masks
C 192.168.0.0/24 is directly connected, Ethernet0/0
L 192.168.0.2/32 is directly connected, Ethernet0/0
```

CPE#

CPE#show ip eigrp topology

EIGRP-IPv4 Topology Table for AS(100)/ID(2.2.2.2)

Codes: P - Passive, A - Active, U - Update, Q - Query, R - Reply,  
r - reply Status, s - sia Status

```
P 50.50.50.50/32, 1 successors, FD is 51200, tag is 10
via Redistributed (51200/0)
P 100.100.100.100/32, 1 successors, FD is 51200, tag is 10
via Redistributed (51200/0)
P 192.168.0.0/24, 1 successors, FD is 281600
via Connected, Ethernet0/0
P 10.0.40.0/30, 1 successors, FD is 2585600, tag is 100
via 192.168.0.1 (2585600/2560000), Ethernet0/0
```

P 2.2.2.2/32, 1 successors, FD is 51200, tag is 10  
via Redistributed (51200/0)  
P 6.6.6.6/32, 1 successors, FD is 51200, tag is 10  
via Redistributed (51200/0)  
P 1.1.1.1/32, 1 successors, FD is 2585600, tag is 100  
via 192.168.0.1 (2585600/2560000), Ethernet0/0  
P 9.9.9.9/32, 1 successors, FD is 2585600, tag is 100  
via 192.168.0.1 (2585600/2560000), Ethernet0/0

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