ASA Deep Dive

Routing Protocol

Configuring EIGRP on ASA

▷ Configuring EIGRP on the firewall is somewhat similar to configuring EIGRP on a Cisco Router, with a few changes though.

▷ Things to consider before implementing EIGRP.

- What Autonomous System is the the neighbor using?

- What are the K-values?

- Are we doing any authentication?

- Is my neighbor in the same subnet?

▷ Common troubleshooting commands on the ASA.

- show eigrp neighbors

- debug eigrp packets

- show eigrp topology

Configuring EIGRP on ASA

▷ Configuring EIGRP on the firewall.

- ASA>
- ASA>enable
- ASA#
- ASA#configure terminal
- ASA(config)#
- ASA(config)#router eigrp 100
- ASA(config-router)#network 10.0.0.0 255.255.255.0
- ASA(config-router)#network 192.168.10.0

Configuring EIGRP on ASA

▷ show eigrp neighbors

```
ASAx1(config)# sh eigrp neighbors
EIGRP-IPv4 Neighbors for AS(100)
H   Address                  Interface          Hold Uptime   SRTT  RTO   Q   Seq
                                                (sec)         (ms)        Cnt Num
0   10.0.0.1                 inside              14  00:00:05 1     200   0     2
```

Configuring EIGRP on ASA

▷ show route inside

```
ASAx1(config)# sh route inside

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, + - replicated route
Gateway of last resort is not set


C        10.0.0.0 255.255.255.0 is directly connected, inside
L        10.0.0.50 255.255.255.255 is directly connected, inside
D        150.11.11.1 255.255.255.255
            [90/130816] via 10.0.0.1, 00:02:41, inside
```