

# Distribute Lists

# IP Distribute Lists

- ▶ Can filter routing updates exiting / leaving the router
- ▶ Can filter routing updates incoming / entering the router
- ▶ Distribute Lists can work with the following
  - ◆ ACL
  - ◆ IP Prefix List
  - ◆ Route Map
- ▶ Using a link state routing protocol and a distribute list offers many challenges
- ▶ Use the following to filter using a distribute list
  1. Define what routes to filter
  2. Create an ACL or Prefix list
  3. Apply the distribute list and reference the ACL or IP Prefix List or Route-Map and specify a direction
    1. Optional: Specify an incoming or outgoing interface

# Distribute Lists and Standard ACLs

```
router eigrp 1
  network 10.0.0.0
  distribute-list 99 in
  no auto-summary

access-list 99 permit 10.10.128.0 0.0.31.255
access-list 99 permit 10.10.224.0 0.0.7.255
access-list 99 deny any
```

- ◆ Permits routes from 10.10.128.0 /19 network
- ◆ Permits routes from 10.10.224.0 /21 network

# Distribute Lists and Extended ACLs

```
access-list 100 permit ip <source> <route-update>
```

- ◆ Extended named ACLs are not supported <at this time>

```
router eigrp 1
 network 10.0.0.0
 distribute-list 100 in
 no auto-summary
```

```
access-list 100 deny ip host 192.168.12.2 host 192.168.2.0
access-list 100 permit ip any any
```

- ◆ The host 192.168.12.2 is the source / gateway
- ◆ The **any** keyword can be used as the Gateway
- ◆ Denies the 192.168.2.0 network and does not consider the bitmask

# Distribute Lists and Extended ACLs

```
router eigrp 1
  network 10.0.0.0
  distribute-list 150 in
  no auto-summary

access-list 150 permit ip host 1.1.1.1 10.0.4.0 0.0.3.255
access-list 150 deny ip any any
```

## ◆ Only Permits routes

- 10.0.4.0 - 255
- 10.0.5.0 - 255
- 10.0.6.0 - 255
- 10.0.7.0 - 255