

# IPV6 BGP ROUTING

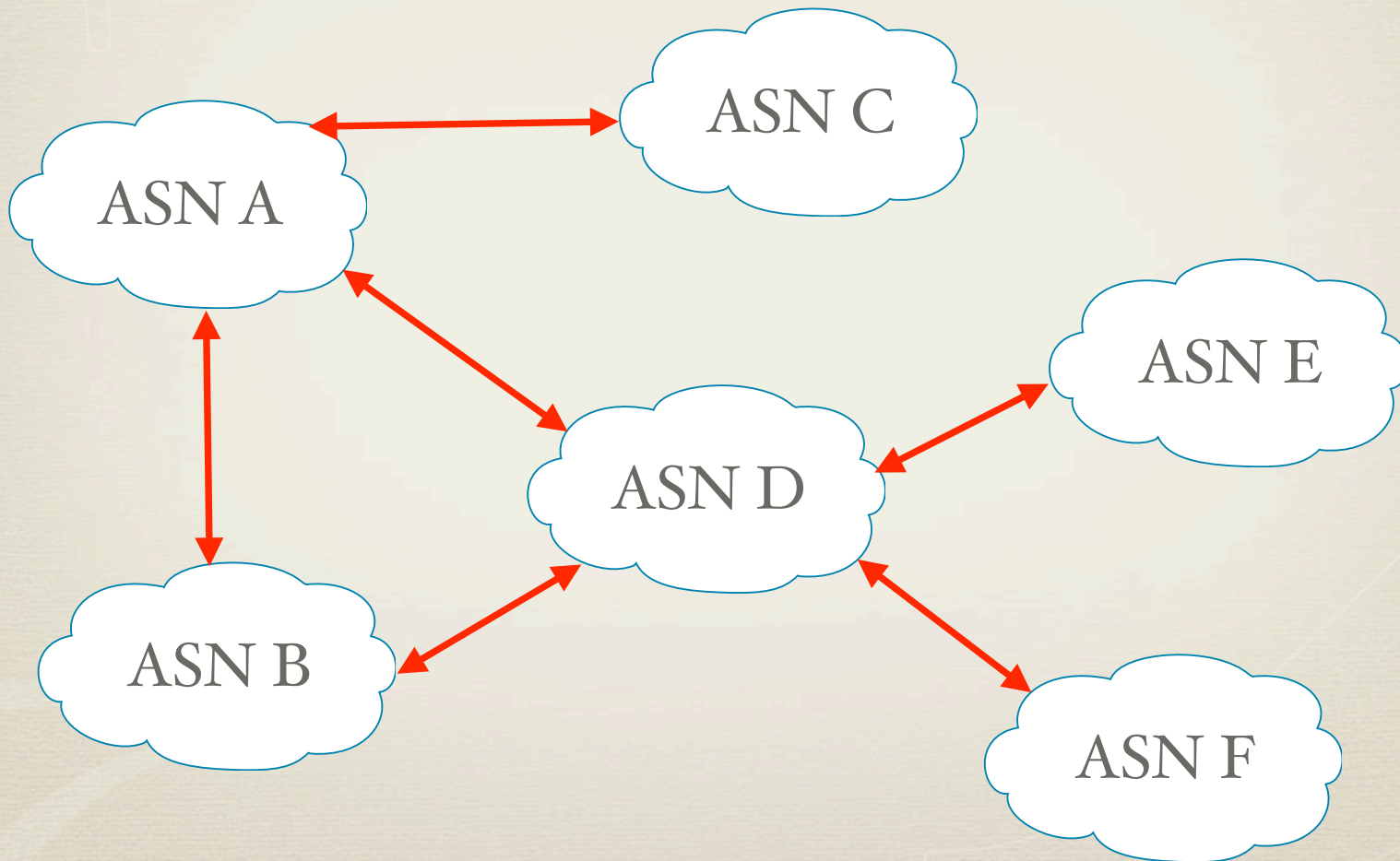
*Francisco J. Obispo*  
*fobispo@gmail.com*

*Director de Operaciones y Red Académica*  
*Fundación Centro Nacional de Innovación Tecnológica*

*<http://www.cenit.gob.ve>*  
*Caracas - Venezuela*

# BGP Routing

*Routing table update simulations*





# BGP Routing

- \* Same configuration parameters in IPv4 found in IPv6
- \* Need to activate IPv6 routing in cisco configuration usually by: **ipv6 unicast routing**
- \* Sample BGP session:

```
ipv6 route add 2001:1338::/32 null 0
```

```
router bgp 20312
```

```
neighbor 2800:30:FFFF:1::1 remote-as 27807
```

```
address-family ipv6 unicast
```

```
neighbor 2800:30:FFFF:1::1 activate
```

```
neighbor 2800:30:FFFF:1::1 route-map R2_IN in
```

```
neighbor 2800:30:FFFF:1::1 route-map R2_OUT out
```

```
network 2001:1338::/32
```

# BGP Routing

- \* BGP Table size of about 1072 prefixes
- \* Minimum announcement size of /32
- \* Only aggregated addresses should be announced, following a hierarchical structure