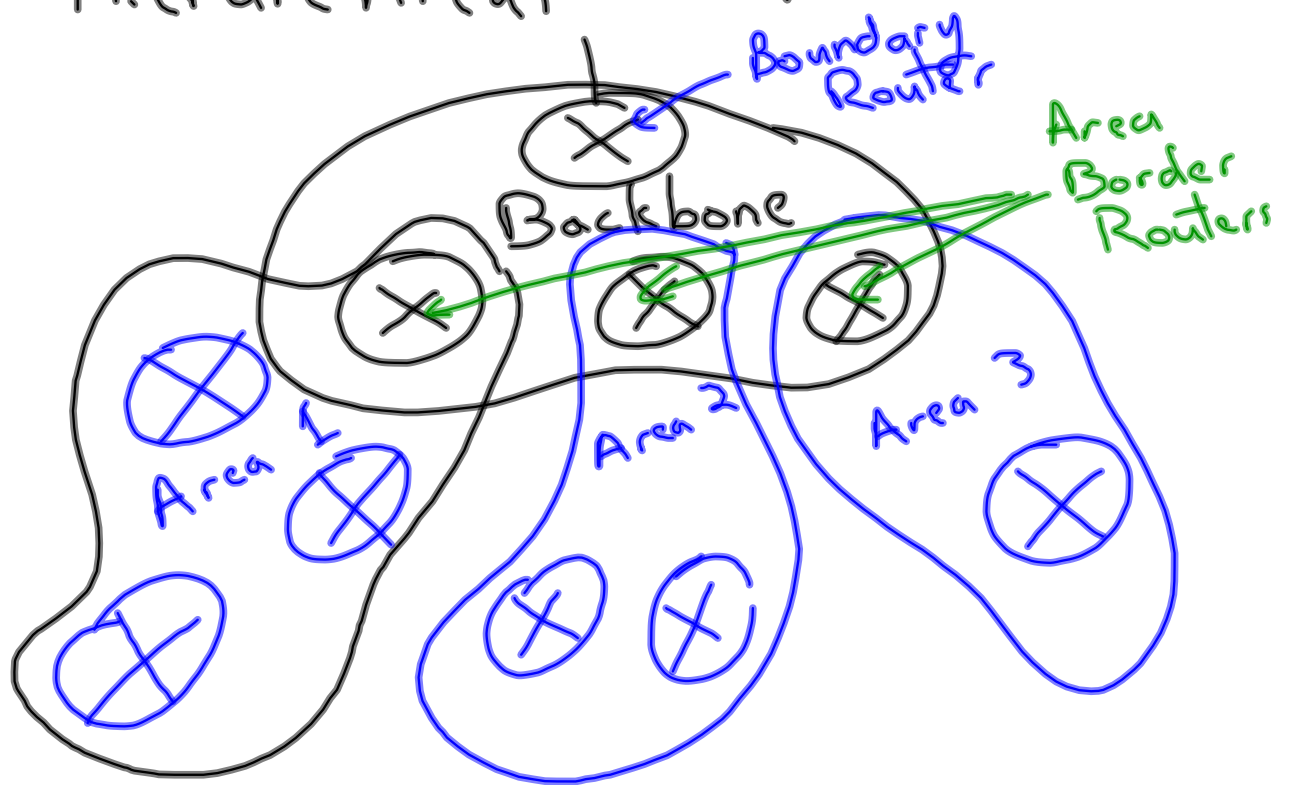


# Open Shortest Path First (OSPF)

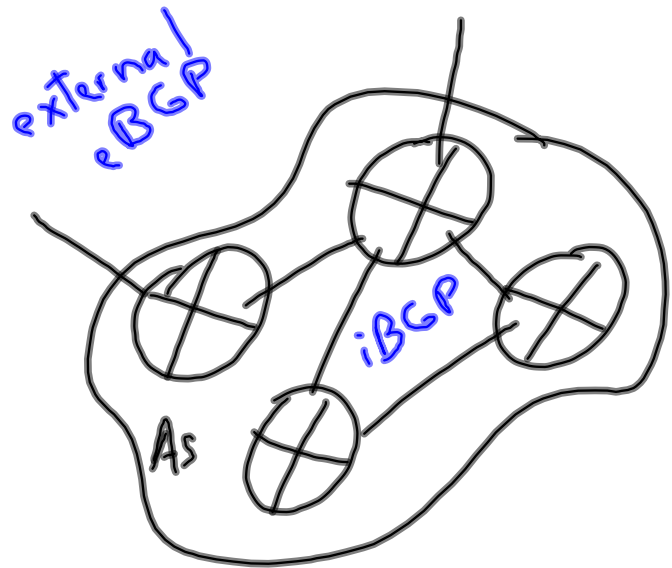
- Link State
- IP packets
- Security
- multiple same cost paths

# Hierarchical OSPF

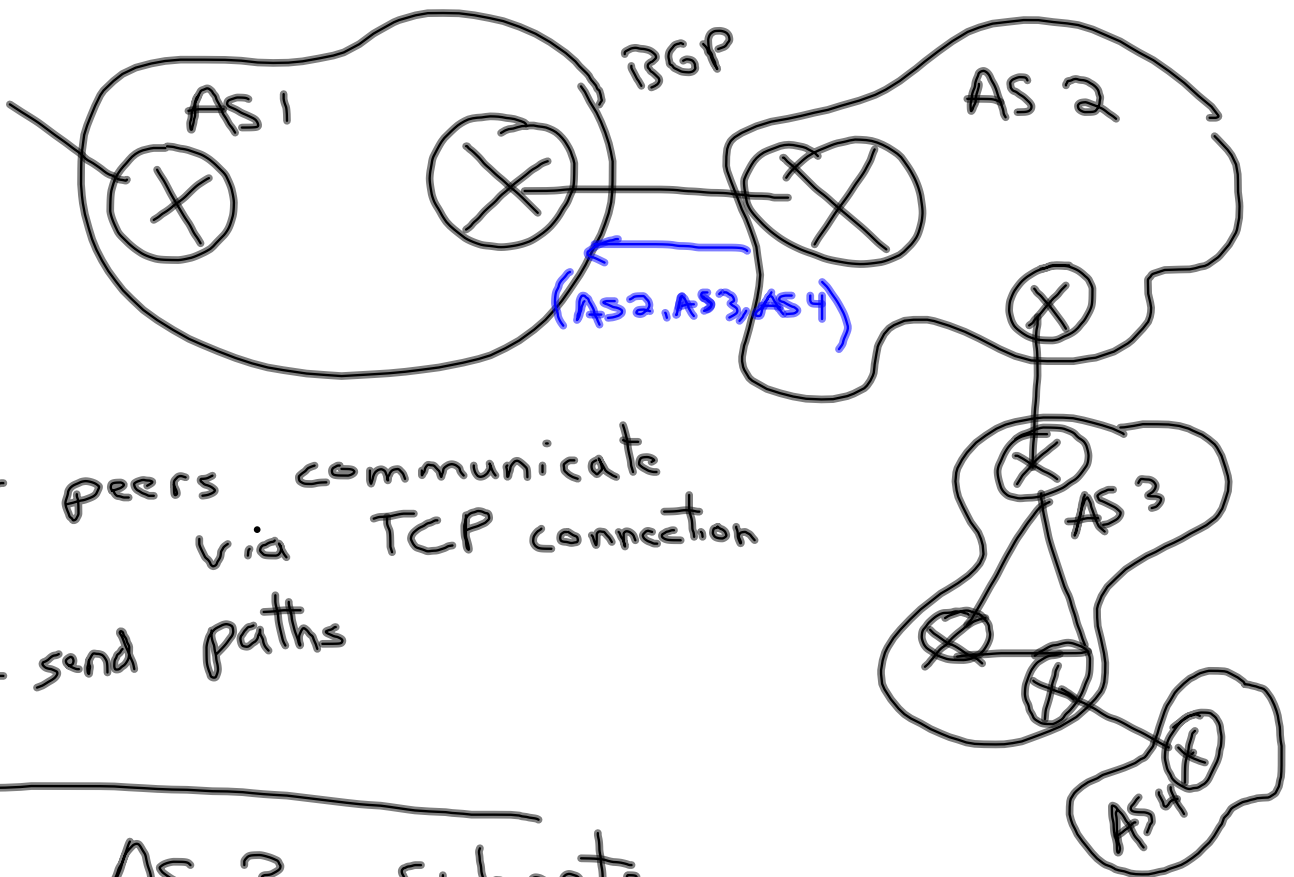


# Border Gateway Protocol (BGP)

- inter AS
- each AS has a number  
16 bit up to 2007  
now 32 bit



- advertise: "I'm here"



- peers communicate via TCP connection
- send paths

### AS 3 subnets

128.16.68/24  
 128.16.69/24  
 128.16.70/24  
 128.16.71/24

1000 6000 . 0001 0000 . 0100 0100 .

01000101  
 01000110  
 01000111

advertise

128.16.68/22

route:  
prefix  
attributes:

AS-PATH - list of AS #s

NEXT-HOP: IP addr.  
of router at start of  
path

