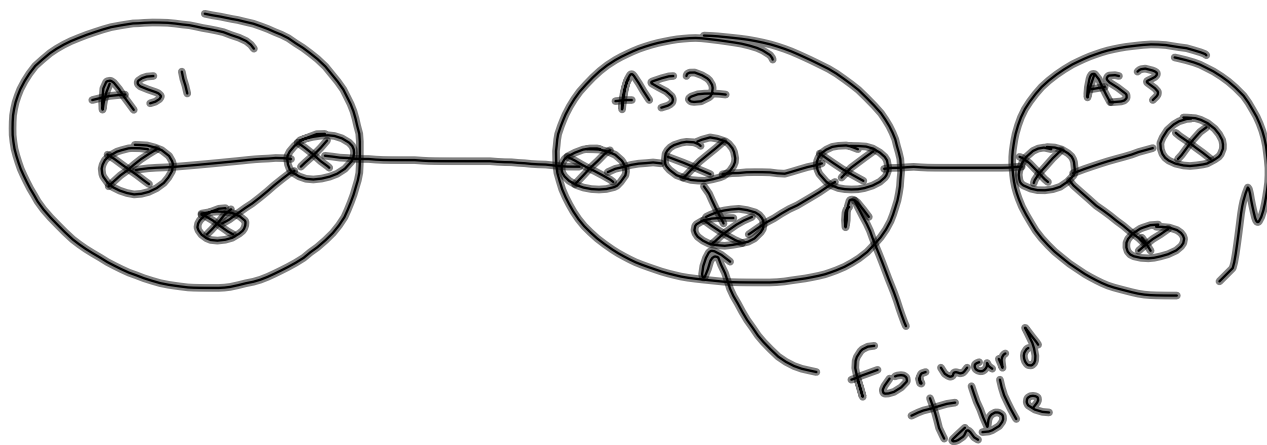


Inter-AS routing



Intra AS protocol

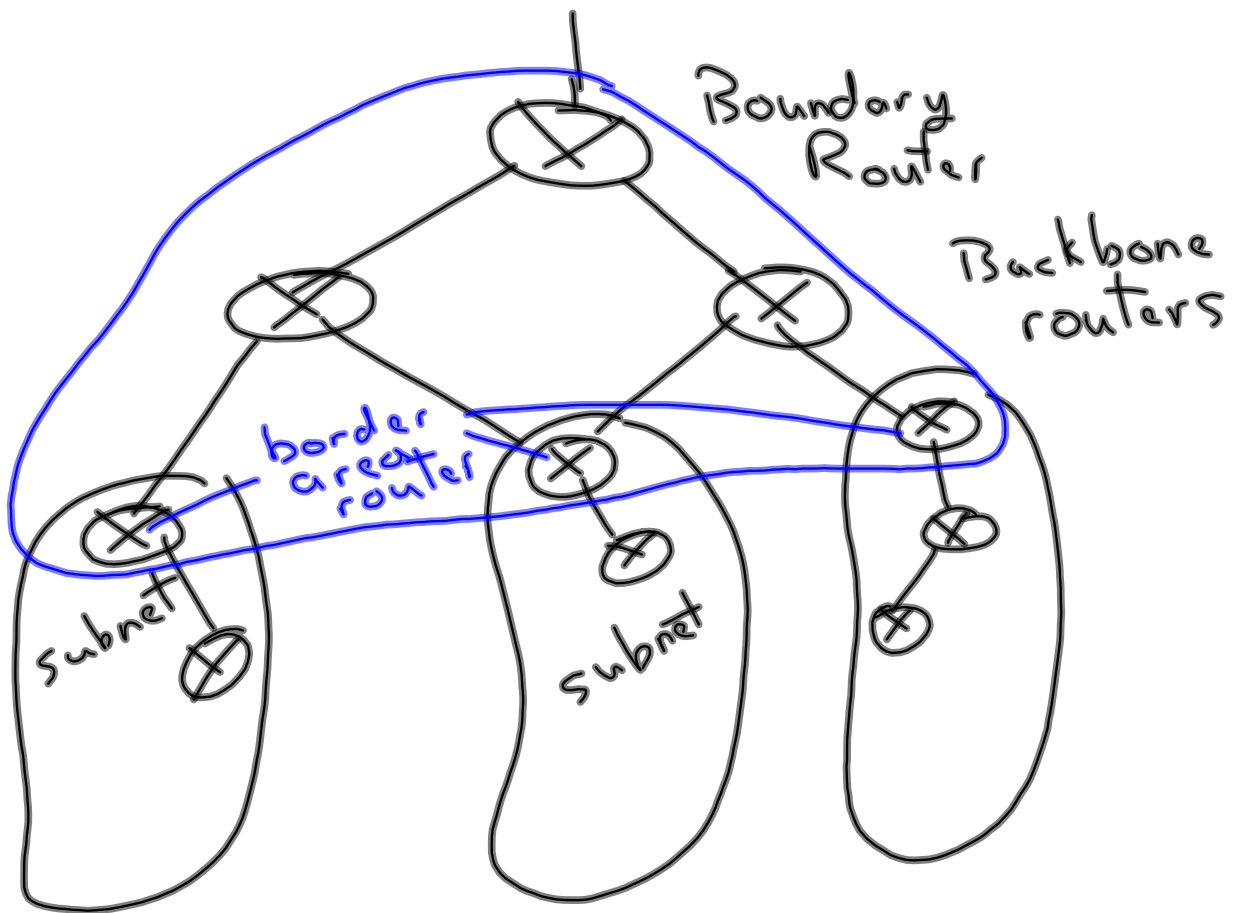
RIP - routing information protocol

- distance vector
- cost is 1 (hops)
- $\infty = 16$ hops
- DV's sent every 30 sec
 - ↳ up to 25 subnets
- link "dead" if no message in 180 sec.
- application level process updates forward tables
 - routed (route-d)
 - ↗
 - daemon
- UDP packets

OSPF - open shortest path
first

- link state (Dijkstra's)
- each router has "map" of
the network.
- IP packets

Hierarchical OSPF



Inter-AS routing - BGP

Border Gateway Protocol

AS - send routing PATHS

eBGP (external)

iBGP (internal)

AS # 16 bits
~ 40,000 used