

# IT Operation Workshop: Day-3

## Exterior Gateway Protocols

Keyword: BGP

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# 1 BGP

path vector principle

# 2 eBGP and iBGP

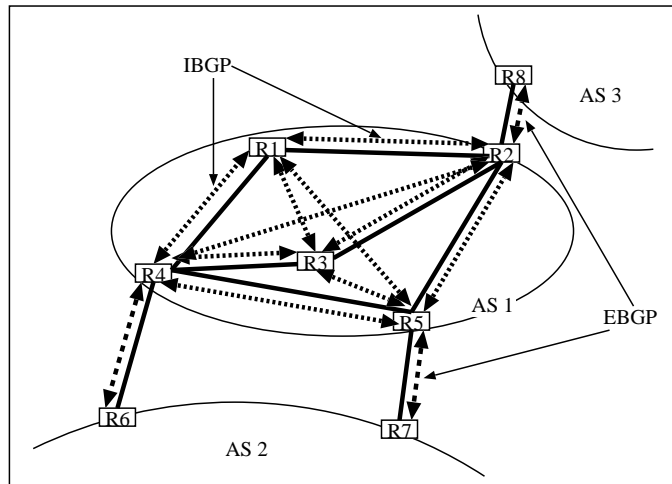


Figure 1: iBGP and eBGP

# 3 Best path selection

MED, Local-Pref

# 4 Route reflector

# 5 Tips

- next-hop self
- soft-reconfiguration inbound
- AS path prepend
- BGP Community
- Martian Prefix
- about nanog

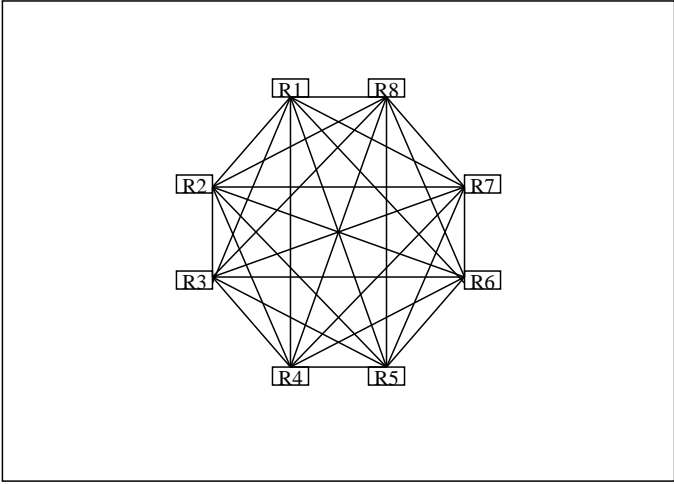


Figure 2: fullmesh iBGP session

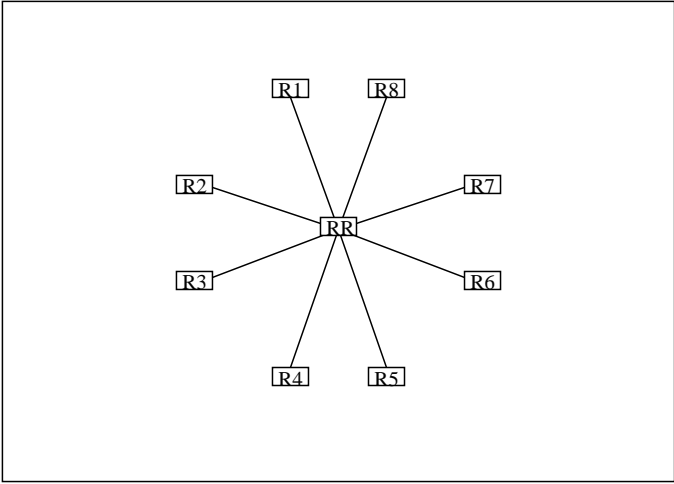


Figure 3: RR model

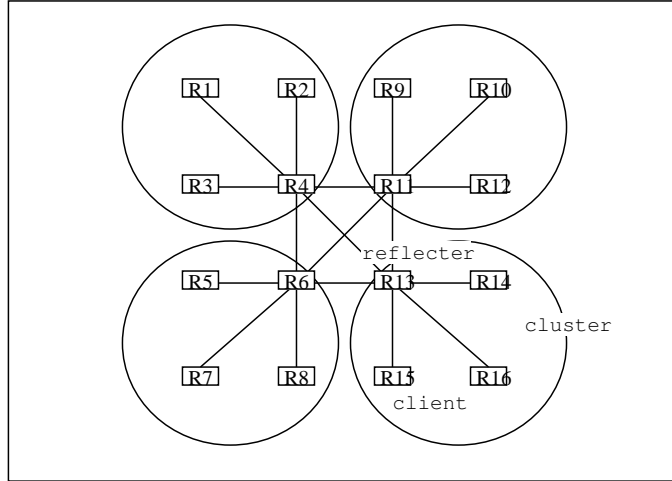


Figure 4: RR and cluster

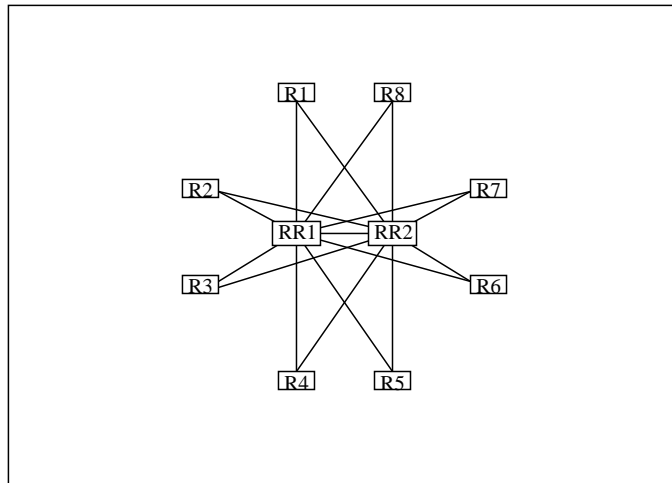


Figure 5: redundant RR

## 6 Filtering

- prefix-list
- access-list
- route-map