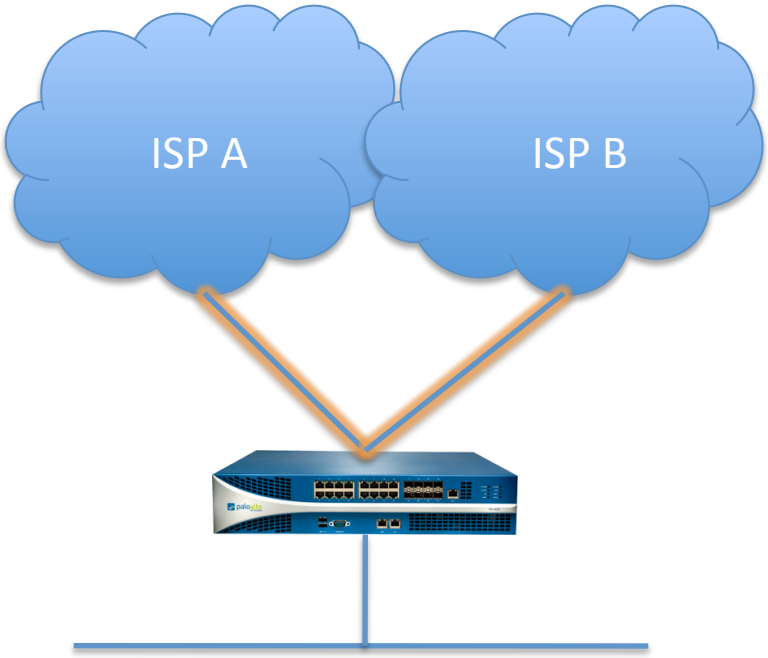
BGP Configurations

2. **Single box multi-homed***
3. Dual box multi-homed – no HA cluster
4. Dual box multi-homed – full mesh, no HA cluster
5. Dual box multi-homed – HA cluster (Active/Passive)
6. **Dual box multi-homed – full mesh, HA cluster (Active/Passive)***
7. **Dual box multi-homed – HA cluster (Active/Active)***
8. **Dual box multi-homed – full mesh, HA cluster (Active/Active)***

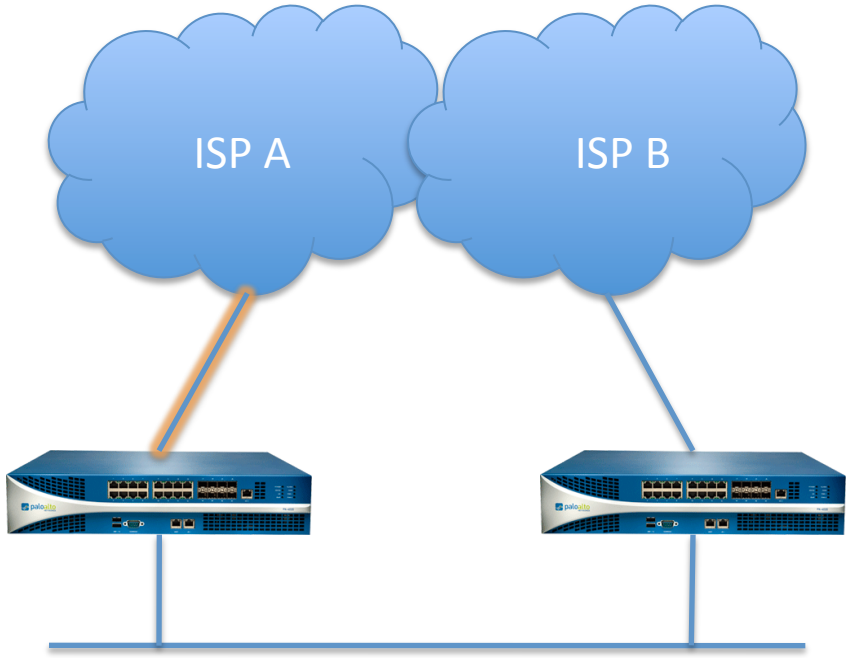
***Recommended Configuration**

Single box multi-homed bgp config (recommended)



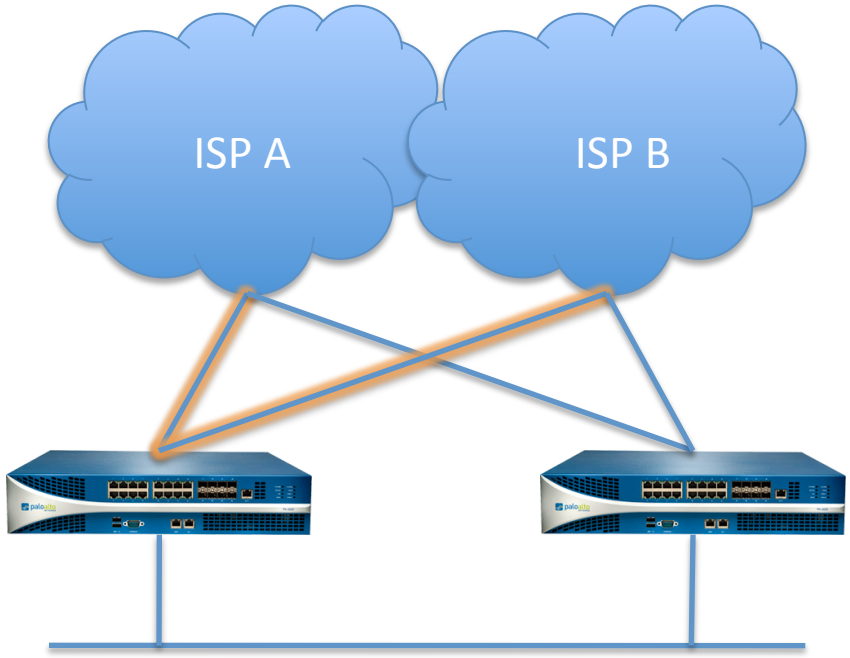
asymmetric routing supported
cold spare for hw redundancy
load sharing possible (if announcing > /24)

Dual box multi-homed bgp config – no HA cluster



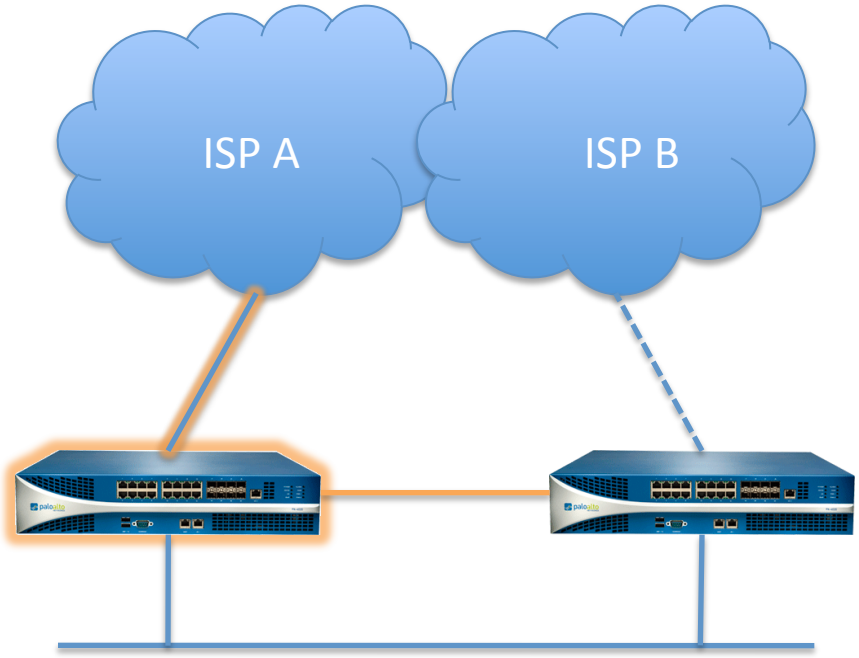
no asymmetric routing (use as-path prepend and local-pref)
ibgp
unique eBGP peer on each firewall

Dual box multi-homed bgp config – full mesh, no HA cluster



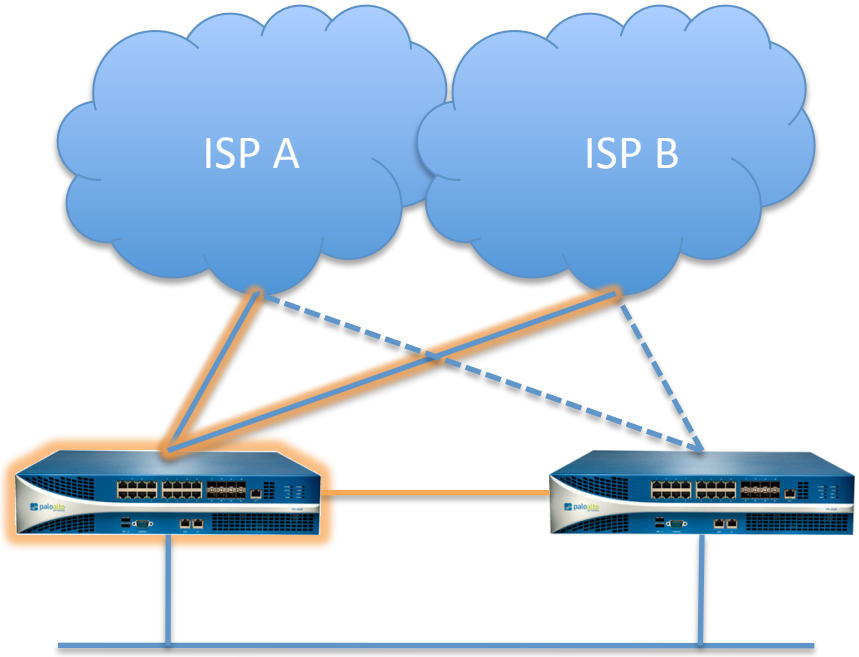
limited asymmetric routing (use as-path prepend and local-pref)
ibgp
unique eBGP peers on each firewall

Dual box multi-homed bgp config – HA cluster (Active/Passive)



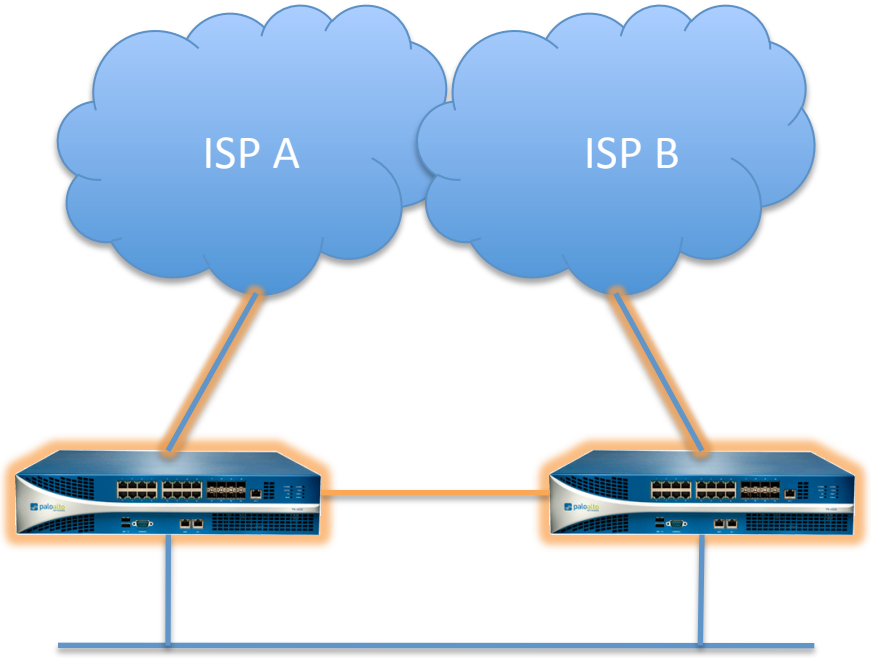
no asymmetric routing – only single peer up at a time
both boxes identical configs but one interface unused on each
no iBGP
identical eBGP peers on each firewall but only opposite one used on each
***one eBGP peer always down – ISP may not allow**

Dual box multi-homed bgp config – full mesh, HA cluster (Active/Passive) (recommended)



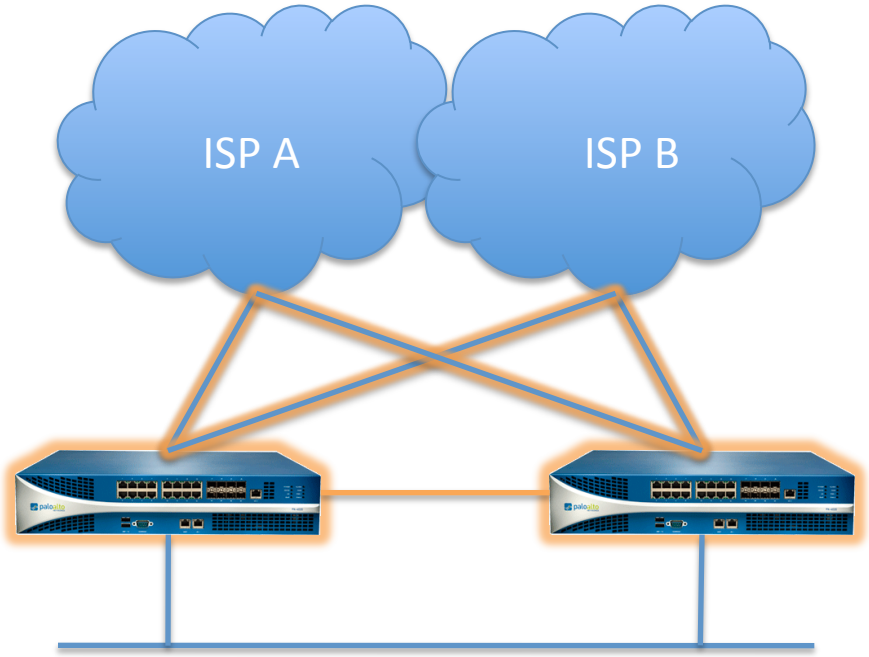
asymmetric routing supported
must connect through switch on ISP side of FW for identical addressing/config
use GRES for BGP failover
no ibgp
identical eBGP peers on each firewall
load sharing possible (if announcing > /24)

Dual box multi-homed bgp config – HA cluster (Active/Active) (recommended)



asymmetric routing supported but can still simulate active/passive
use iBGP for best path
unique eBGP peer on each firewall
load sharing possible (if announcing > /24)

Dual box multi-homed bgp config – full mesh, HA cluster (Active/Active) (recommended)



asymmetric routing supported but can still simulate active/passive
option to use iBGP
unique eBGP peers on each firewall
load sharing possible (if announcing > /24)