

AS100 - CMS experiment

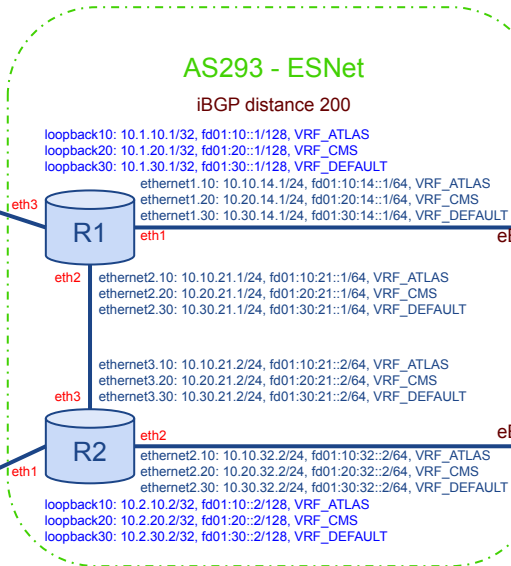
eBGP, OSPF passive, BGP neighbor eth3,
filter BGP transit traffic, VLAN30 distance 10

Policy-based routing for CMS flow label

loopback100: 10.11.10.11/32, fd01:10::11/128, VRF_EXT
ethernet1.20: 10.20.11.11/24, fd01:20::11/64, VRF_EXT
ethernet1.30: 10.30.11.11/24, fd01:30::11/64, VRF_EXT



eth1



AS20965 - GEANT

iBGP distance 200

loopback10: 10.4.10.4/32, fd01:10::4/128, VRF_ATLAS
loopback20: 10.4.20.4/32, fd01:20::4/128, VRF_CMS
loopback30: 10.4.30.4/32, fd01:30::4/128, VRF_DEFAULT
ethernet1.10: 10.10.14.4/24, fd01:10:14::4/64, VRF_ATLAS
ethernet1.20: 10.20.14.4/24, fd01:20:14::4/64, VRF_CMS
ethernet1.30: 10.30.14.4/24, fd01:30:14::4/64, VRF_DEFAULT

ethernet2.10: 10.10.43.4/24, fd01:10:43::4/64, VRF_ATLAS
ethernet2.20: 10.20.43.4/24, fd01:20:43::4/64, VRF_CMS
ethernet2.30: 10.30.43.4/24, fd01:30:43::4/64, VRF_DEFAULT

ethernet2.10: 10.10.43.3/24, fd01:10:43::3/64, VRF_ATLAS
ethernet2.20: 10.20.43.3/24, fd01:20:43::3/64, VRF_CMS
ethernet2.30: 10.30.43.3/24, fd01:30:43::3/64, VRF_DEFAULT

ethernet1.10: 10.10.32.3/24, fd01:10:32::3/64, VRF_ATLAS
ethernet1.20: 10.20.32.3/24, fd01:20:32::3/64, VRF_CMS
ethernet1.30: 10.30.32.3/24, fd01:30:32::3/64, VRF_DEFAULT

loopback10: 10.3.10.3/32, fd01:10::3/128, VRF_ATLAS
loopback20: 10.3.20.3/32, fd01:20::3/128, VRF_CMS
loopback30: 10.3.30.3/32, fd01:30::3/128, VRF_DEFAULT

AS10 - ATLAS experiment

AS10 - CMS experiment

AS10 - DEFAULT

NOTES:

- In eBGP config directly with the IP of the interface but in iBGP with the loopback
- BGP: update-source loopback, router-id loopback, neighbor loopback, source its own loopback
- OSPF: router-id loopback
- 1 loopback per VLAN

AS400 - CMS experiment

eBGP, OSPF passive, BGP neighbor eth3,
filter BGP transit traffic, VLAN30 distance 10

Policy-based routing for CMS flow label

loopback400: 10.44.40.44/32, fd01:40::44/128, VRF_EXT
ethernet1.20: 10.20.44.44/24, fd01:20:44::44/64, VRF_EXT
ethernet1.30: 10.30.44.44/24, fd01:30:44::44/64, VRF_EXT



eth1

ethernet3.20: 10.20.44.4/24, fd01:20:44::4/64, VRF_CMS
ethernet3.30: 10.30.44.4/24, fd01:30:44::4/64, VRF_DEFAULT

ethernet1.10: 10.10.33.3/24, fd01:10:33::3/64, VRF_ATLAS
ethernet1.30: 10.30.33.3/24, fd01:30:33::3/64, VRF_EXT
loopback300: 10.33.30.33/32, fd01:30::33/128, VRF_EXT

Policy-based routing for ATLAS flow label

eBGP, OSPF passive, BGP neighbor eth3,
filter BGP transit traffic, VLAN30 distance 10

AS300 - ATLAS experiment

