

AS100 - CMS experiment

eBGP, OSPF passive, BGP neighbor eth3

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

eth3



loopback10: 10.1.10.1/32, fd01:10::1/128, VRF_ATLAS
loopback20: 10.1.20.1/32, fd01:20::1/128, VRF_CMS
loopback30: 10.1.30.1/32, fd01:30::1/128, VRF_DEFAULT
ethernet1.10: 10.10.14.1/24, fd01:10:14::1/64, VRF_ATLAS
ethernet1.20: 10.20.14.1/24, fd01:20:14::1/64, VRF_CMS
ethernet1.30: 10.30.14.1/24, fd01:30:14::1/64, VRF_DEFAULT

eth2

eth3



eth1

ethernet2.10: 10.10.21.1/24, fd01:10:21::1/64, VRF_ATLAS
ethernet2.20: 10.20.21.1/24, fd01:20:21::1/64, VRF_CMS
ethernet2.30: 10.30.21.1/24, fd01:30:21::1/64, VRF_DEFAULT
ethernet3.10: 10.10.21.2/24, fd01:10:21::2/64, VRF_ATLAS
ethernet3.20: 10.20.21.2/24, fd01:20:21::2/64, VRF_CMS
ethernet3.30: 10.30.21.2/24, fd01:30:21::2/64, VRF_DEFAULT

eth2

eth3



eth1

ethernet1.10: 10.10.22.22/24, fd01:10:22::22/64, VRF_EXT
ethernet1.20: 10.20.22.22/24, fd01:20:22::22/64, VRF_EXT
ethernet1.30: 10.30.22.22/24, fd01:30:22::22/64, VRF_EXT
loopback200: 10.22.20.22/32, fd01:20:22::128, VRF_EXT

eBGP, OSPF passive, BGP neighbor eth1

AS200 - CMS & ATLAS

AS10 - ATLAS experiment

AS20 - CMS experiment

AS30 - 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

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

eth1



eth3

eth2

eth3

eth2

eth1

eth3

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_DEFAULT

eth2

eth3



ethernet1.10: 10.10.33.33/24, fd01:10:33::33/64, VRF_EXT
ethernet1.30: 10.30.33.33/24, fd01:30:33::33/64, VRF_EXT
loopback300: 10.33.30.33/32, fd01:30:33::128, VRF_EXT

eBGP, OSPF passive, BGP neighbor eth3

AS300 - ATLAS experiment

AS400 - CMS experiment

eBGP, OSPF passive, BGP neighbor eth3

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

eth3

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

eth2

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

eth2

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

eth2

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

eth2

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

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

eth3

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

eth3

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

eth3

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

eth3

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

eth3

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

eth3

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

eth3

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