IMPLEMENTING MPLS VPN BASED NETWORK ENIRONMENT IN GNS3

MPLS

Technology to direct data from one node to other based on short path labels rather long network address.

MPLS VPN

Multiprotocol label switching to create virtual private networks. They are highly secured and controls Traffic and users.

PROTOCOLS USED

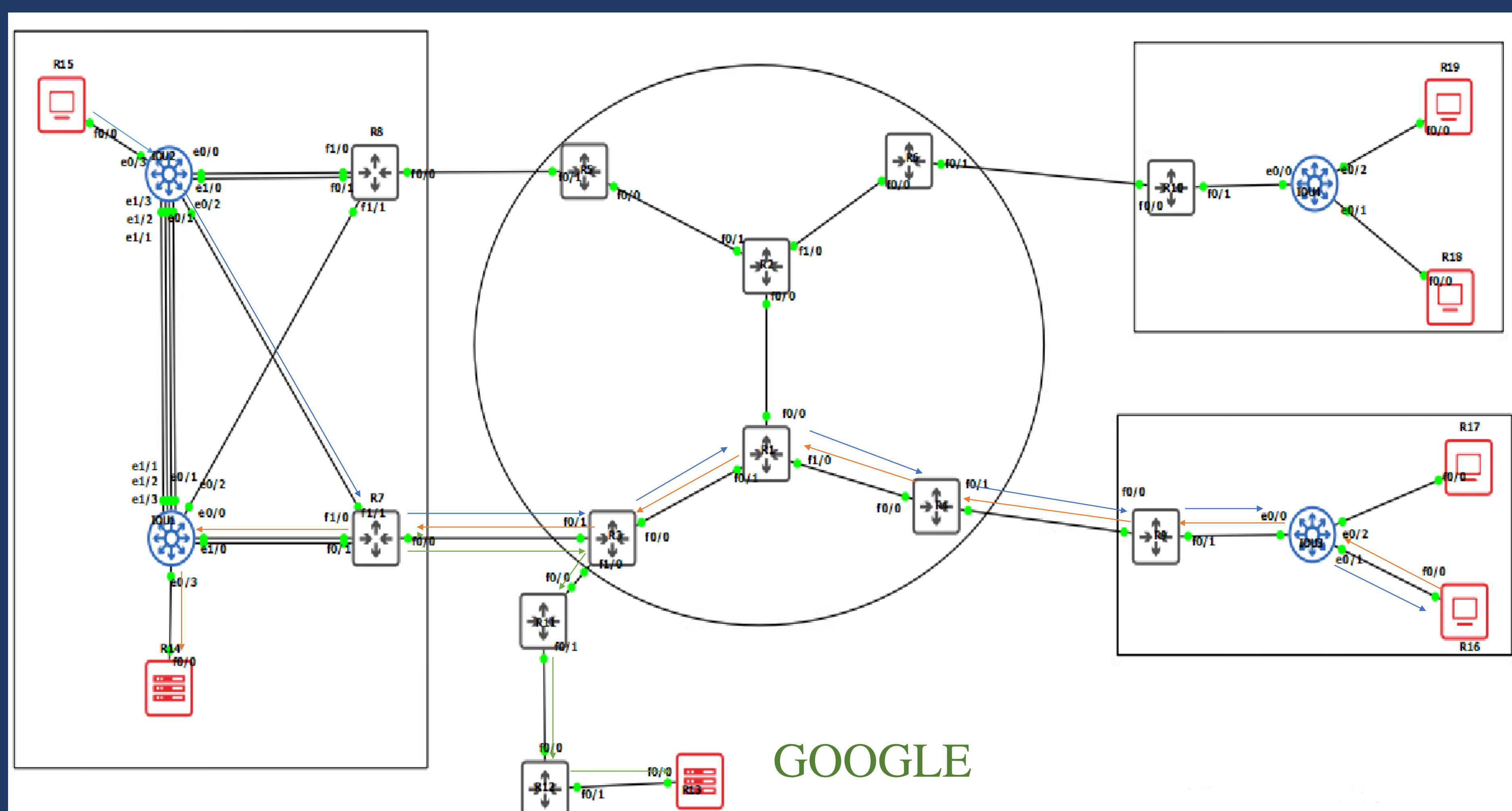OSPF   BGP MPGP   DHCP

NAT   VRF   IPV4

VRF

A technology includes in IP network routers for multiple instances of routing table in the same router.
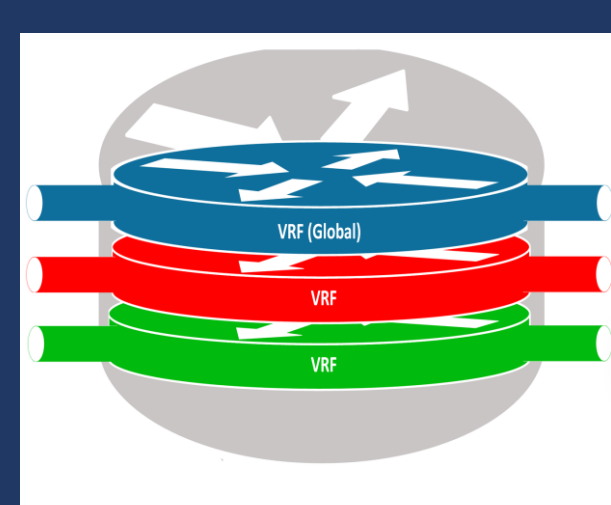
DATA CENTRE   ISP   BRANCHES

GOOGLE

VRF 123

VRF 124

VRF 125

VRF COMMUNICATION

VRF 123 – From branch to data centre

VRF 124 – From Data centre to branch

VRF 125 – From branch to google server
via data centre through NAT

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