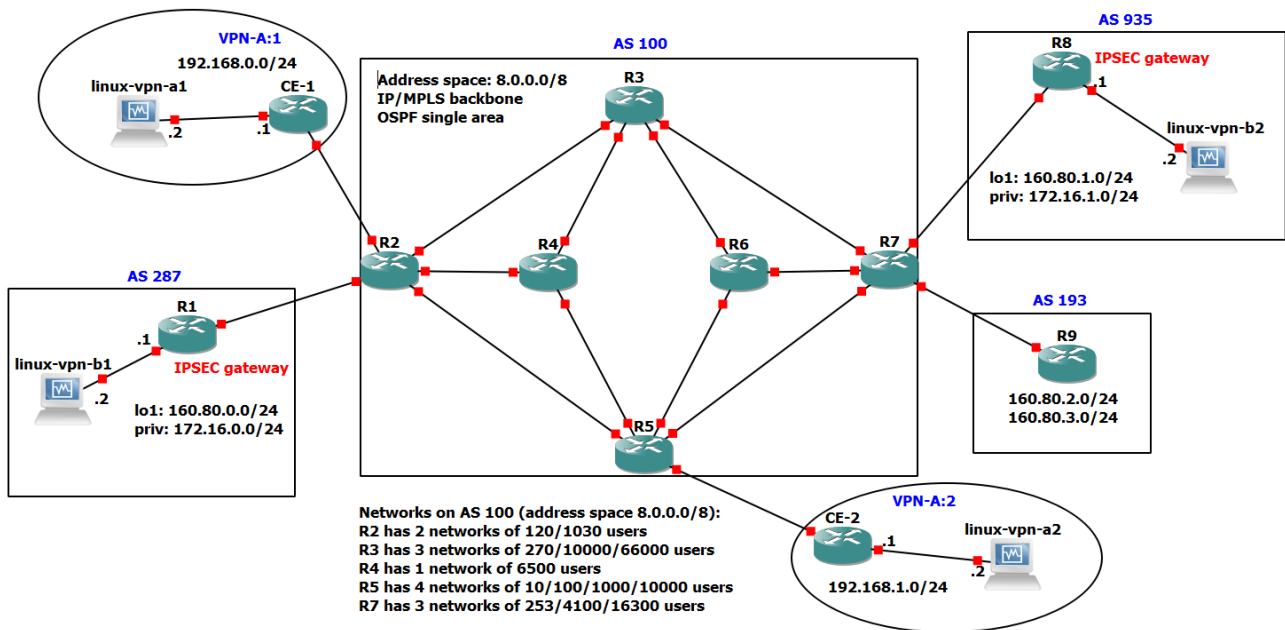# EnN exam project.

Realize the Network shown in Figure in GNS3, taking care of the following:

- Point-to-point links between routers are /30 private networks (e.g. 10.0.0.X);
- Assign Loopback 0 to the management network;
- AS 100 routers have a few "public" networks attached. Assign them to the loopbacks (Loopback from 1 to N) of the routers, taking care of the number of users as listed in the Figure;
- Stub ASes have some "public" networks, too. Assign them to the loopbacks of the routers as specified in the Figure;
- In AS 100, OSPF with a single area must be configured;
- AS 100 has an IP/MPLS backbone configured with LDP;
- Configure iBGP in AS 100. NOTE: not all the routers need to have iBGP configured;
- Configure ONE Route Reflector server in AS 100 (choose one);
- Configure eBGP between border routers of the Autonomous Systems;
- R2 and R5 are two Provider Edges of a peer-to-peer VPN (VPN-A) implemented with the MPLS/BGP technology. Test the connectivity with the two linux VMs connected to CE-1 and CE-2;
- R1 and R8 are configured with an overlay gateway-to-gateway VPN (VPN-B) implemented with IPSEC. Test the connectivity with the two linux VMs connected to them.