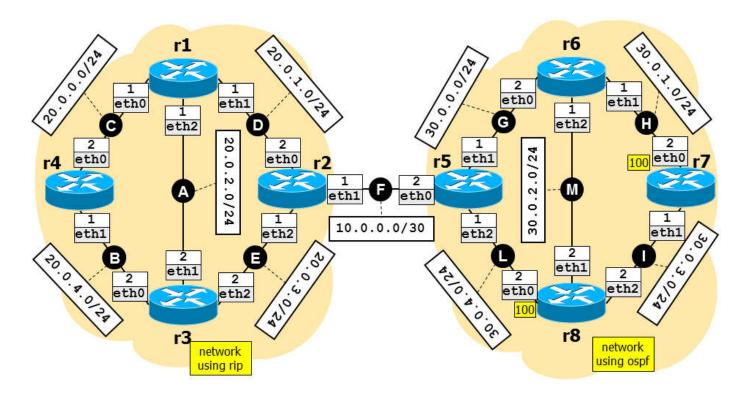
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Using Netkit, implement the network depicted in the figure and described below.

- □ **r1**, **r2**, **r3**, and **r4** are routers running RIP.
- □ **r5**, **r6**, **r7**, and **r8** are routers running OSPF.
 - O All routers belong to the area 0.0.0.0.
 - o Interface **eth0** of router **r8** and interface **eth0** of router **r7** have OSPF cost 100.
- □ Router **r2** redistributes the route 20.0.0.0/16 into RIP, as well as every directly connected route.
- □ Router **r5** redistributes the route 30.0.0.0/16 into OSPF, as well as every directly connected route.
 - o *Hint*: to redistribute static routes into OSPF use the command **redistribute kernel**. Such a command redistributes into OSPF each static route installed in the kernel routing table.

Goals:

Every IP address in the network must be reachable from any router.

The traffic generated from r7 and directed to r2 must pass through routers r8, r6and r5.