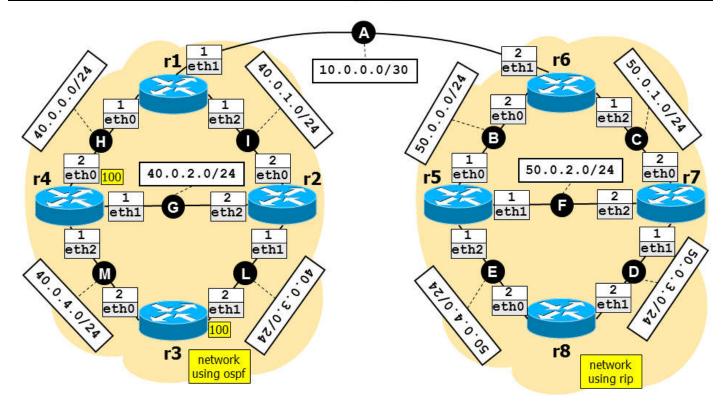
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Using Netkit, implement the network depicted in the figure and described below.

- □ r1, r2, r3, and r4 are routers running OSPF.
 - All routers belong to the area 0.0.0.0.
 - o Interface eth0 of router r4 and interface eth1 of router r3 have OSPF cost 100.
- □ r5, r6, r7, and r8 are routers running RIP.
- □ Router **r6** redistributes the route 40.0.0.0/16 into RIP, as well as every directly connected route.
- □ Router **r1** redistributes the route 50.0.0.0/16 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 r3 and directed to r6 must pass through routers r4, r2 and r1.