



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, r6 and r5.