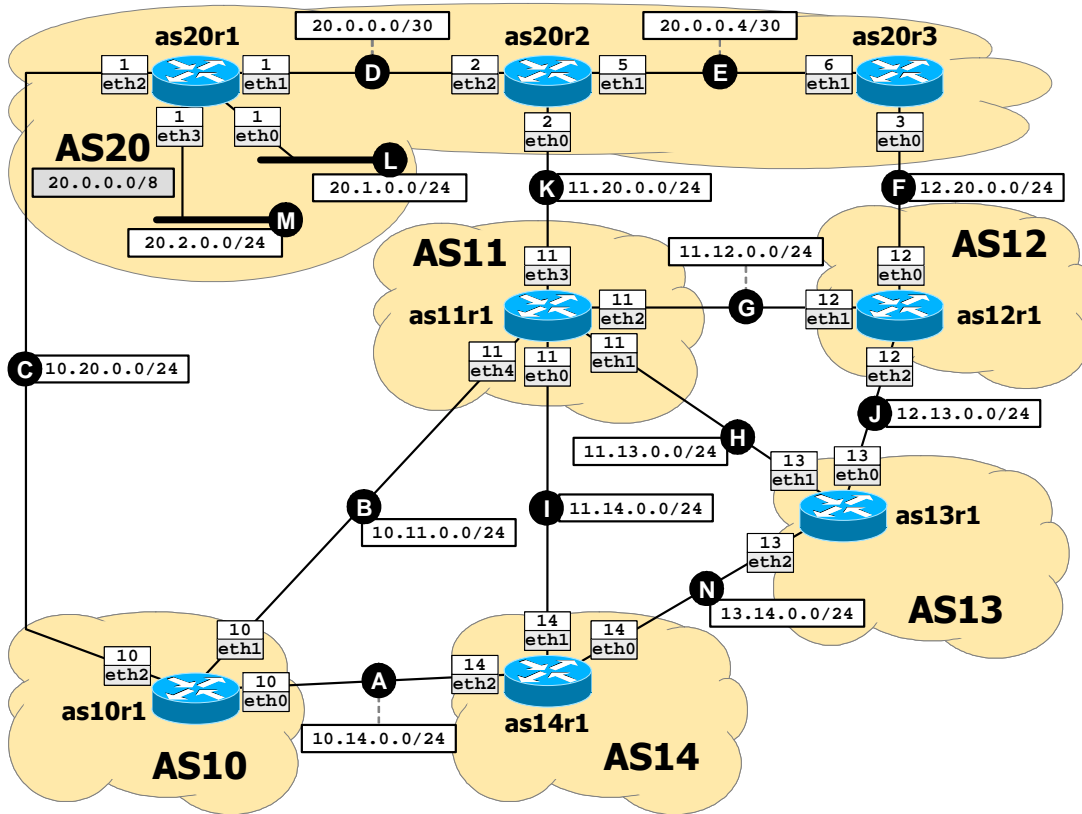




Available time: 120 minutes.



Using Netkit, implement the network shown in the figure and described below (you can use the following items as a checklist).

- ☐ Routers in AS20 use the RIP protocol.
- ☐ All peering LANs are announced in BGP.
- ☐ BGP routers in AS20 also announce the aggregate network 20.0.0.0/8.
- ☐ BGP routers in AS20 **do not** establish iBGP peerings.
- ☐ No routers announce 0.0.0.0/0 or apply customer-provider policies.
- ☐ as10r1 applies filters in such a way to **avoid** sending traffic to AS20 through link C.
- ☐ as10r1, as11r1, as12r1, as13r1, and as14r1 prefer sending traffic to 20.1.0.0/24 and 20.2.0.0/24 along the paths depicted in Figure 1.

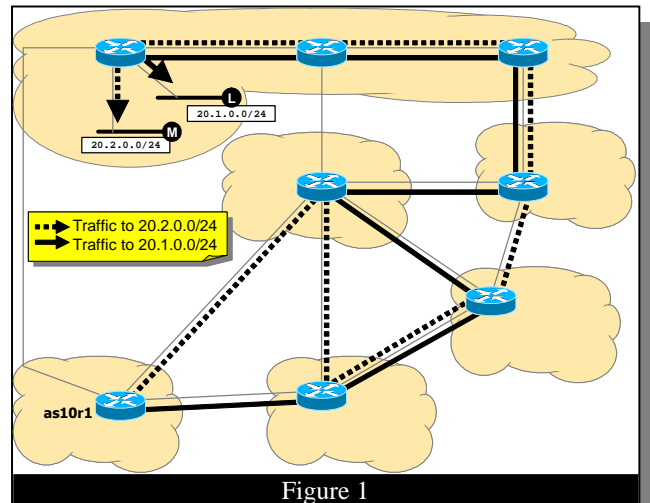


Figure 1

Goals:

- All routers must be able to reach any destinations.
- as10r1 must reach AS20's networks L and M using the specified paths.