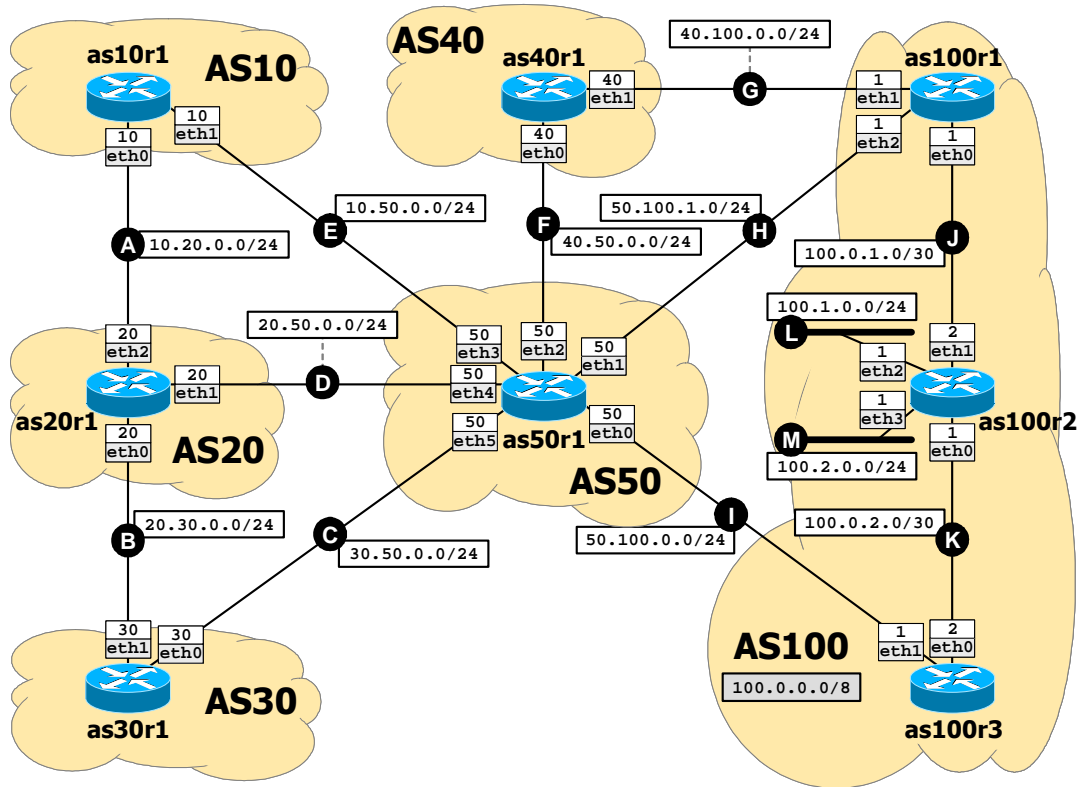




Available time: 120 minutes.



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

- ☐ Routers in AS100 use the RIP protocol.
- ☐ All peering LANs are announced in BGP.
- ☐ BGP routers in AS100 also announce the aggregate network 100.0.0.0/8.
- ☐ BGP routers in AS100 **do not** establish iBGP peerings.
- ☐ No routers announce 0.0.0.0/0 or apply customer-provider policies.
- ☐ as50r1 applies filters in such a way to **avoid** sending traffic to AS100 through links H and I.
- ☐ as10r1, as20r1, as30r1, and as40r1 prefer sending traffic to 100.1.0.0/24 and 100.2.0.0/24 along the paths depicted in Figure 1.

Goals:

- All routers must be able to reach any destinations.
- as10r1 must reach AS100's networks L and M using the specified paths.

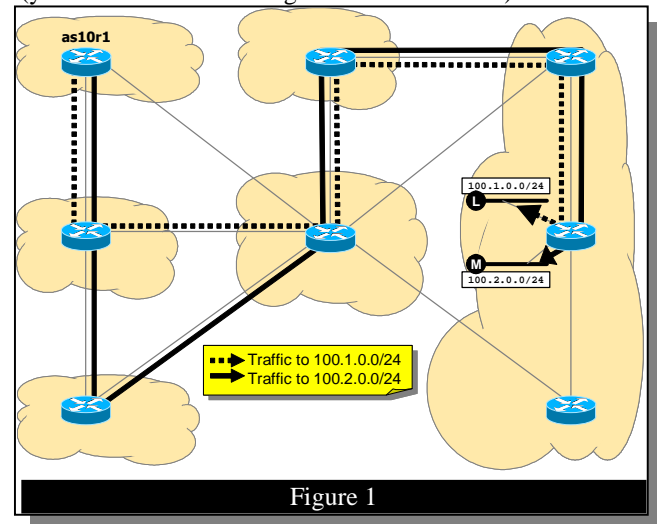


Figure 1