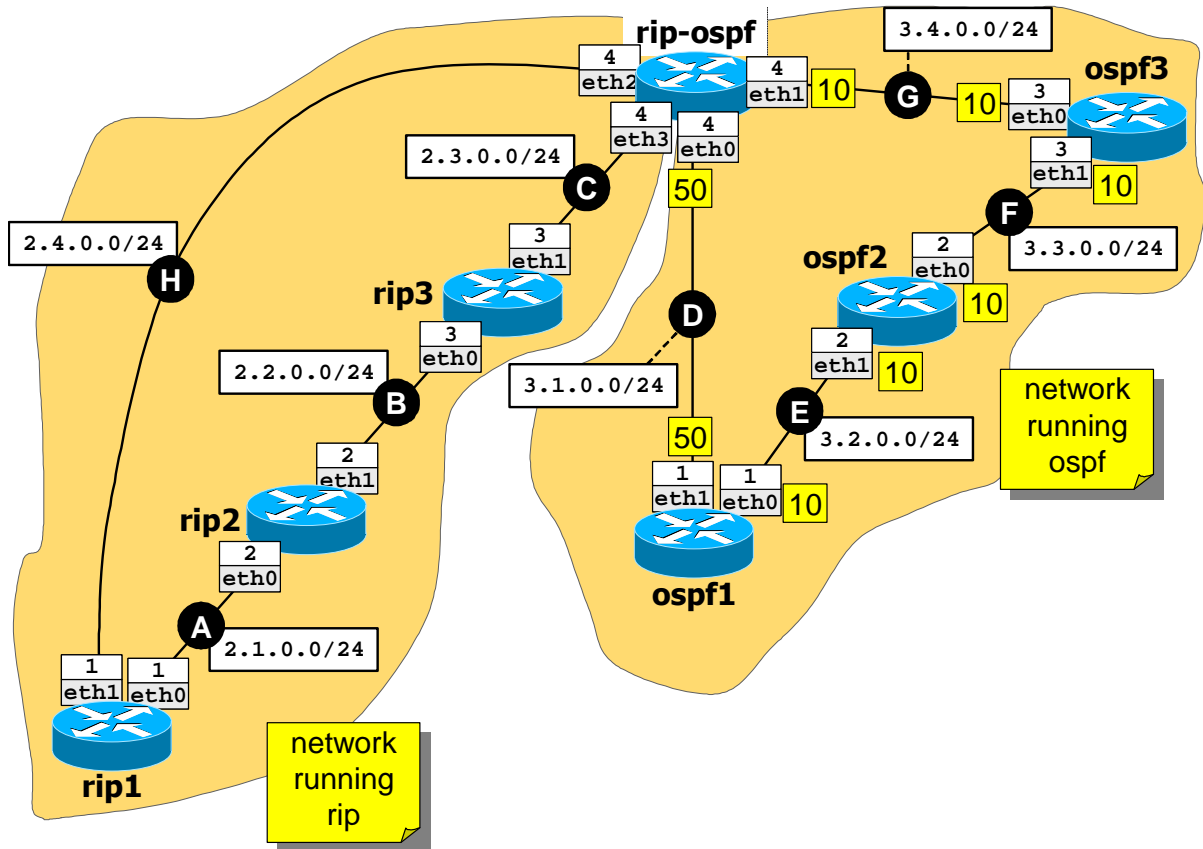




Available time: 60 minutes.



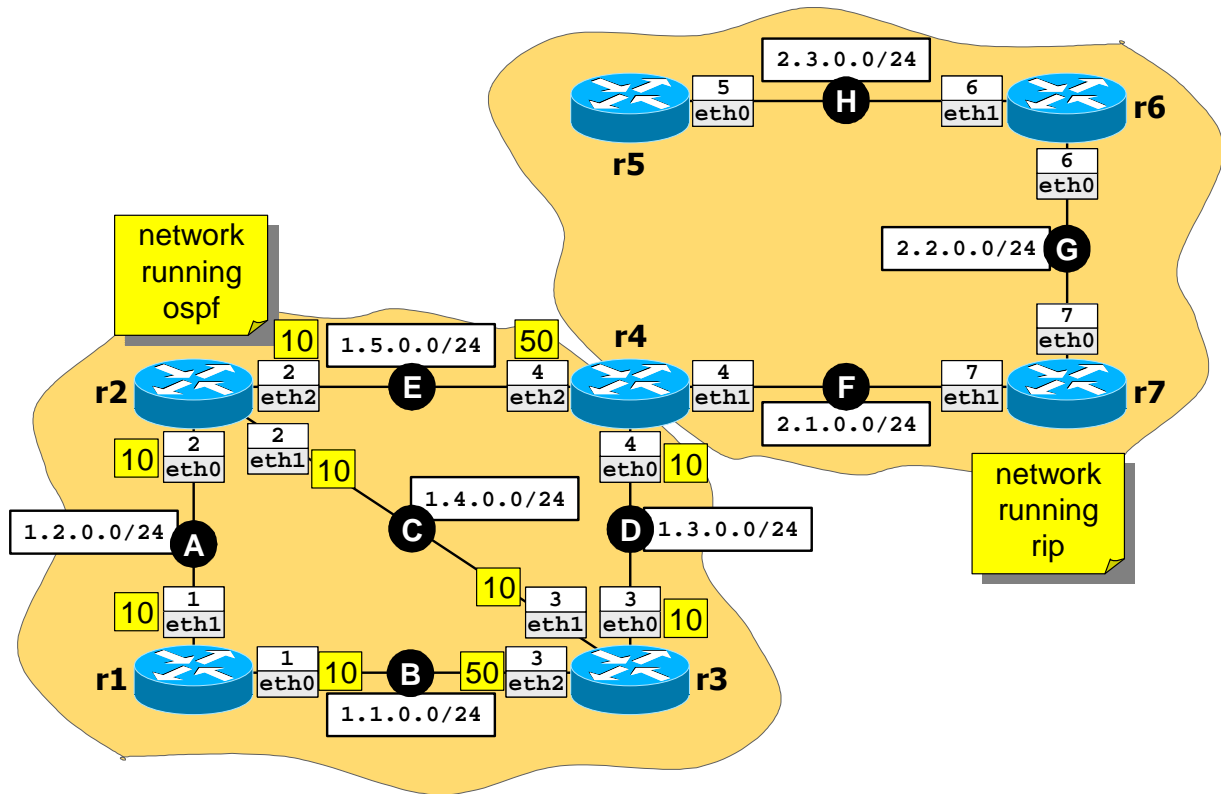
Using Netkit, implement the network depicted in the figure and described below (you can use the following items as a checklist).

- Routing in this network is implemented by the specified routing protocols. No static routes are configured on the routers.
- rip1**, **rip2**, **rip3**, and **rip-ospf** are RIP-speaking routers.
- ospf1**, **ospf2**, **ospf3**, and **rip-ospf** are OSPF-speaking routers.
 - All OSPF routers belong to area **0.0.0.0**.
 - OSPF interface costs are specified next to the interfaces themselves.
- rip-ospf** redistributes into RIP all the subnets it has learned by OSPF, and vice versa. For this purpose, use the **redistribute rip** and **redistribute ospf** configuration commands, placed in the applicable configuration files.

Goals:

- **ping**: all destinations (IP addresses) must be reachable from any network node.
- **traceroute**: the path taken by packets within the OSPF domain must be consistent with the assigned OSPF costs.

Available time: 60 minutes.



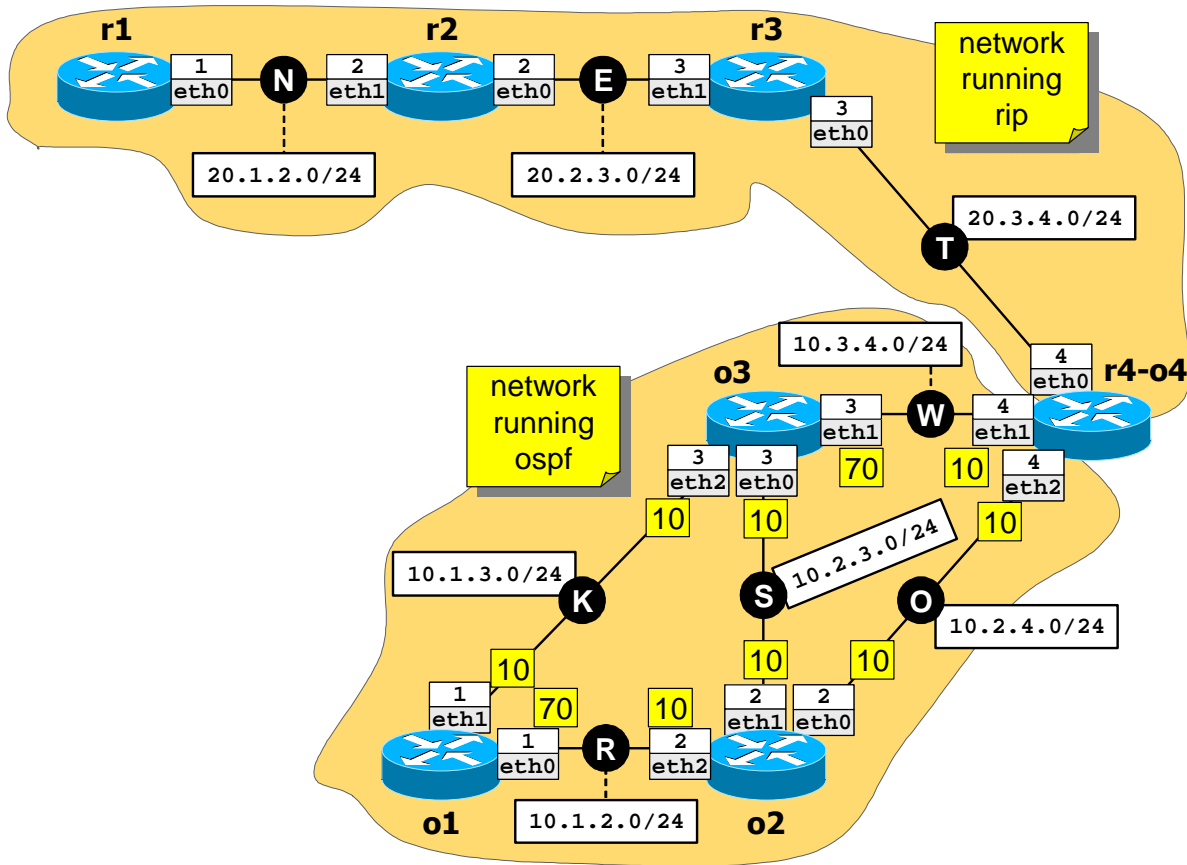
Using Netkit, implement the network depicted in the figure and described below (you can use the following items as a checklist).

- Routing in this network is implemented by the specified routing protocols. No static routes are configured on the routers.
- r1, r2, r3, and r4 are OSPF-speaking routers.
 - All OSPF routers belong to area 0.0.0.0.
 - OSPF interface costs are specified next to the interfaces themselves.
- r4, r5, r6, and r7 are RIP-speaking routers.
- r4 redistributes into RIP all the subnets it has learned by OSPF, and vice versa. For this purpose, use the **redistribute rip** and **redistribute ospf** configuration commands, placed in the applicable configuration files.

Goals:

- **ping:** all destinations (IP addresses) must be reachable from any network node.
- **traceroute:** the path taken by packets within the OSPF domain must be consistent with the assigned OSPF costs.

Available time: 60 minutes.



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

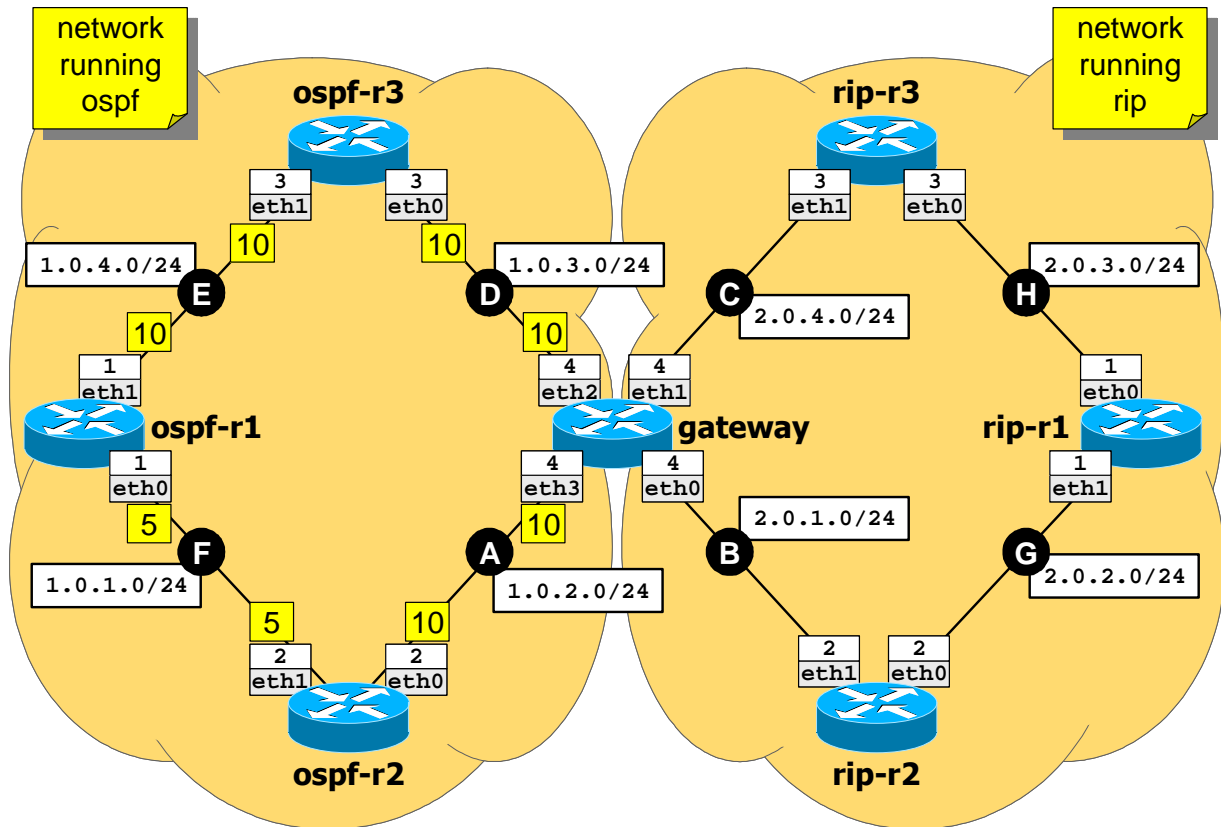
- Routing in this network is implemented by the specified routing protocols. No static routes are configured on the routers.
- r1, r2, r3, and r4-o4 are RIP-speaking routers.
- o1, o2, o3, and r4-o4 are OSPF-speaking routers.
 - All OSPF routers belong to area 0.0.0.0.
 - OSPF interface costs are specified next to the interfaces themselves.
- r4-o4 redistributes into RIP all the subnets it has learned by OSPF, and vice versa. For this purpose, use the **redistribute rip** and **redistribute ospf** configuration commands, placed in the applicable configuration files.

Goals:

- **ping:** all destinations (IP addresses) must be reachable from any network node.
- **traceroute:** the path taken by packets within the OSPF domain must be consistent with the assigned OSPF costs.



Available time: 60 minutes.



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

- Routing in this network is implemented by the specified routing protocols. No static routes are configured on the routers.
- ospf-r1, ospf-r2, ospf-r3, and gateway** are OSPF-speaking routers.
 - All OSPF routers belong to area **0.0.0.0**.
 - OSPF interface costs are specified next to the interfaces themselves.
- rip-r1, rip-r2, rip-r3, and gateway** are RIP-speaking routers.
- gateway** redistributes into RIP all the subnets it has learned by OSPF, and vice versa. For this purpose, use the **redistribute rip** and **redistribute ospf** configuration commands, placed in the applicable configuration files.

Goals:

- **ping:** all destinations (IP addresses) must be reachable from any network node.
- **traceroute:** the path taken by packets within the OSPF domain must be consistent with the assigned OSPF costs.