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

- Each network, indicated by a cloud, uses the specified routing protocol.
- Router r0:
  - announces in RIP solely a default route (0.0.0.0/0);
  - redistributes into OSPF all the routes learned by RIP.
- All OSPF routers belong to area 0.0.0.0.
- Interfaces must be assigned OSPF costs as indicated in the figure. If the cost is unspecified, the default value is to be assumed.
- www is a web server that runs apache2 and serves page http://2.0.0.1/

**Goals:**
- pc must be able to access the Web page exposed by www by using links.
- By running suitable traceroutes, check that traffic from pc to www traverses link E, while traffic from www to pc traverses links D and C.
Using Netkit, implement the network shown in the figure and described below.

- Each network, indicated by a cloud, uses the specified routing protocol.
- Router bb5:
  - announces in RIP solely a default route (0.0.0.0/0);
  - redistributes into OSPF all the routes learned by RIP.
- All OSPF routers belong to area 0.0.0.0.
- Interfaces must be assigned OSPF costs as indicated in the figure. If the cost is unspecified, the default value is to be assumed.
- webserver is a web server that runs apache2 and serves page http://30.0.0.2/

**Goals:**
- user must be able to access the Web page exposed by webserver by using links.
- By running suitable traceroutes, check that traffic from user to webserver traverses links D and H, while traffic from webserver to user traverses links G, F, and E.
Using Netkit, implement the network shown in the figure and described below.

- Each network, indicated by a cloud, uses the specified routing protocol.
- Router **bb**:
  - announces in RIP *solely* a default route (0.0.0.0/0);
  - redistributes into OSPF all the routes learned by RIP.
- All OSPF routers belong to area **0.0.0.0**.
- Interfaces must be assigned OSPF costs as indicated in the figure. If the cost is unspecified, the default value is to be assumed.
- **server** is a web server that runs apache2 and serves page **http://200.0.0.2/**

**Goals:**
- **client** must be able to access the Web page exposed by **server** by using **links**.
- By running suitable traceroutes, check that traffic from **client** to **server** traverses links **C** and **D**, while traffic from **server** to **client** traverses links **E** and **B**.
Using Netkit, implement the network shown in the figure and described below.

- Each network, indicated by a cloud, uses the specified routing protocol.
- Routers bb1 and bb4:
  - announce in RIP solely a default route (0.0.0.0/0);
  - redistribute into OSPF all the routes learned by RIP.
- All OSPF routers belong to area 0.0.0.0.
- Interfaces must be assigned OSPF costs as indicated in the figure. If the cost is unspecified, the default value is to be assumed.
- web is a web server that runs apache2 and serves page http://20.0.0.3/

Goals:
- host must be able to access the Web page exposed by web by using links.
- By running suitable traceroutes, check that traffic from host to web traverses links H and G, while traffic from web to host traverses links F and E.