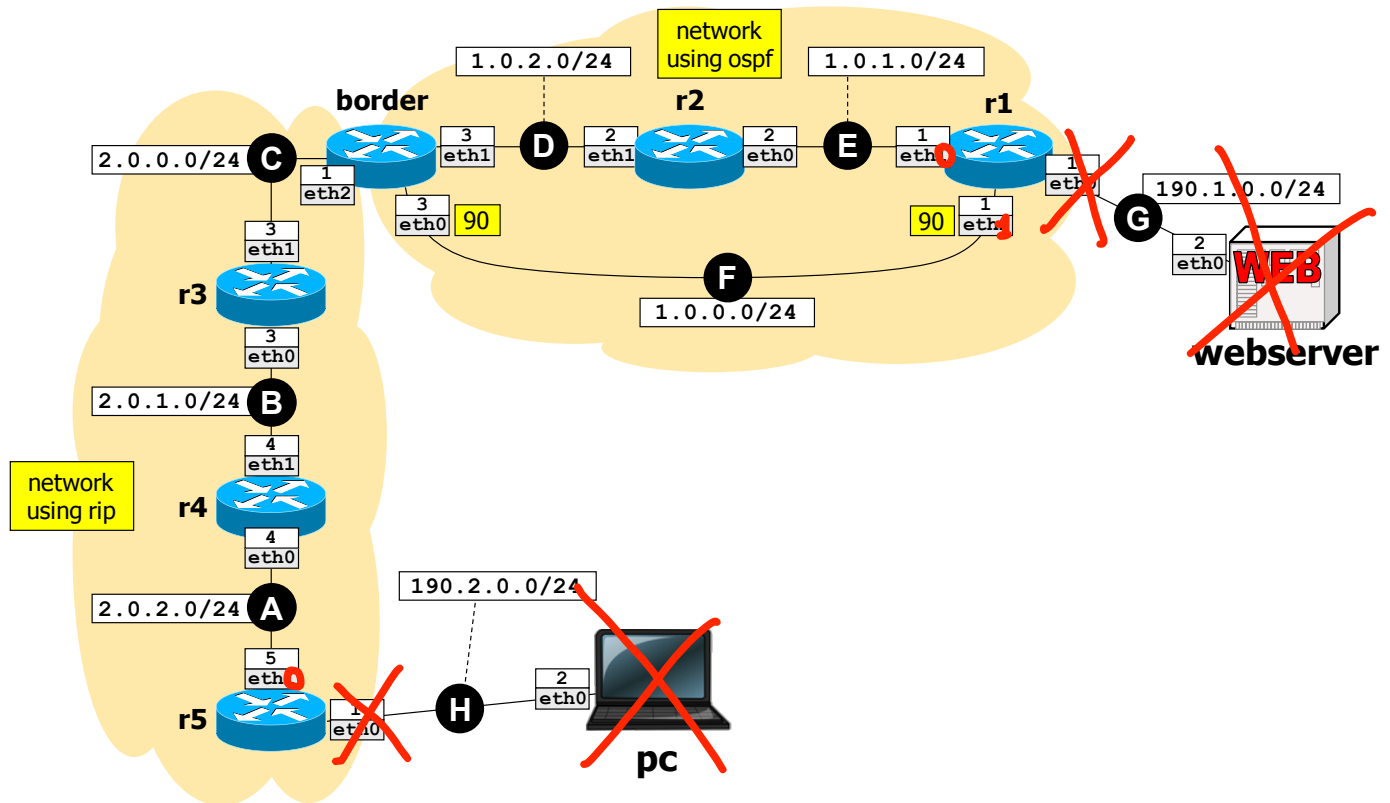**Available time: 60 minutes.**

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

- The network consists of two zones (indicated by clouds in the figure) where RIP and OSPF are used as routing protocols, respectively.
- OSPF routers are set up as follows:
  - all OSPF-speaking interfaces belong to area `0.0.0.0`.
  - OSPF-speaking interfaces are assigned the specified costs (the default cost is assumed where omitted).
- Router `border` is placed across the two zones and performs the following operations:
  - on the OSPF side, it redistributes all routes learned by RIP;
  - on the RIP side, it does not redistribute any routes: instead, it statically announces only routes `190.1.0.0/24` and `1.0.0.0/16`.
- Node `webserver` runs a Web server implemented using apache, which serves a default Web page available at `http://190.1.0.2/`.

Goal: Node `pc` must be able to access the Web page available at `http://190.1.0.2/`. Moreover, verify that the routing path computed between `pc` and `webserver` uses links **D** and **E** in both directions.