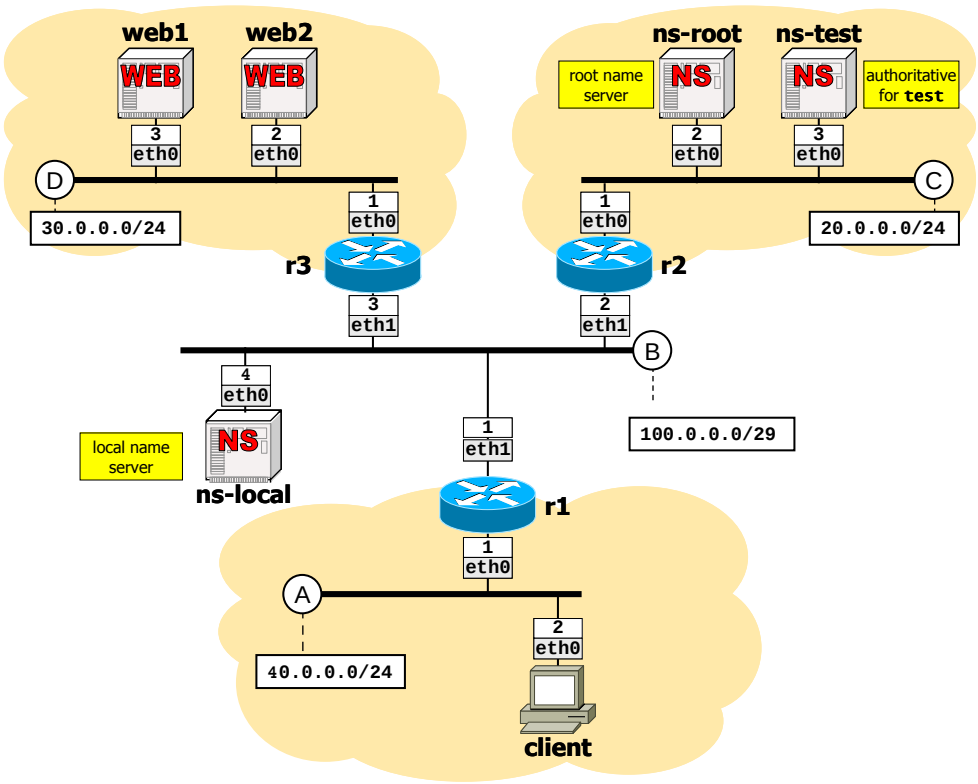

Using Kathará, implement the network shown in the figure and described below.

- Routing in this network is to be implemented with RIP.
- **`ns-root`**, **`ns-test`**, and **`ns-local`** are name servers:
  - **`ns-root`** is the root name server;
  - **`ns-test`** is the authority for **`test`**;
  - **`ns-local`** is a local name server that serves requests from machines within **40.0.0.0/24.** Observe that the nameserver is located in a LAN that is different from the one of the client. Hence, to allow the recursive lookup the following configuration must be used.

```
options {
        allow-recursion { 40.0.0.0/24; };
}
```

- **`web1`** and **`web2`** are Web servers that run apache2:
  - both servers are assigned the DNS name **`server.test`**; a suitable DNS-based policy is set up to dispatch web page requests to **`web1`** and **`web2`** in a balanced way; in order to implement such policy, add to the applicable name servers two records with type **`A`** for the same name **`server.test`** and with the IP addresses of the two servers;
  - both servers offer a single web page available at http://server.test

Goal: **`client`** must be able to access the Web page exposed by user guest on **`server.test`** by using **`links`**. Moreover, it must be verified that the Web page is alternately served by each one of the two Web servers (this may require restarting **`links`**).