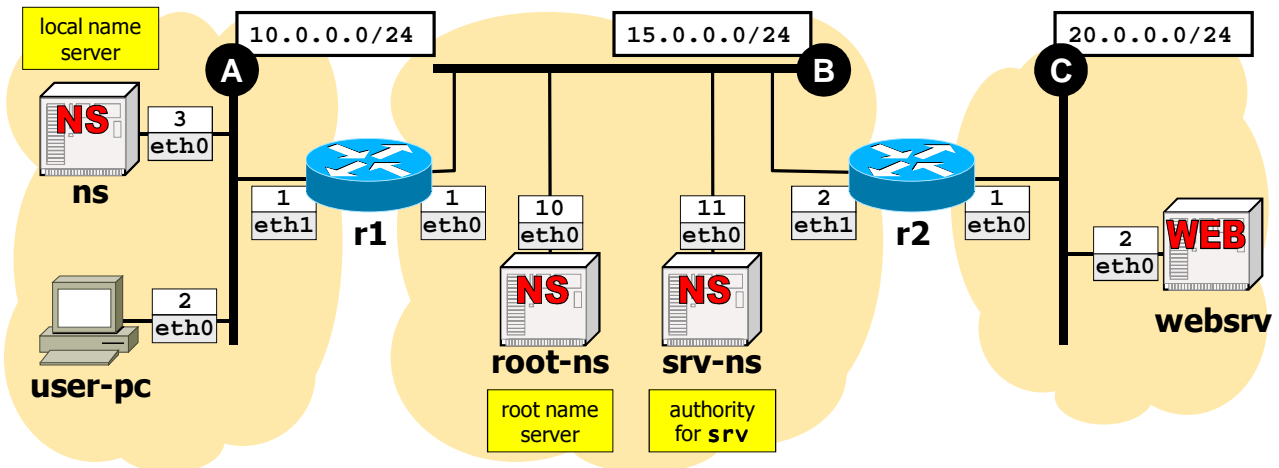**Available time: 90 minutes.**

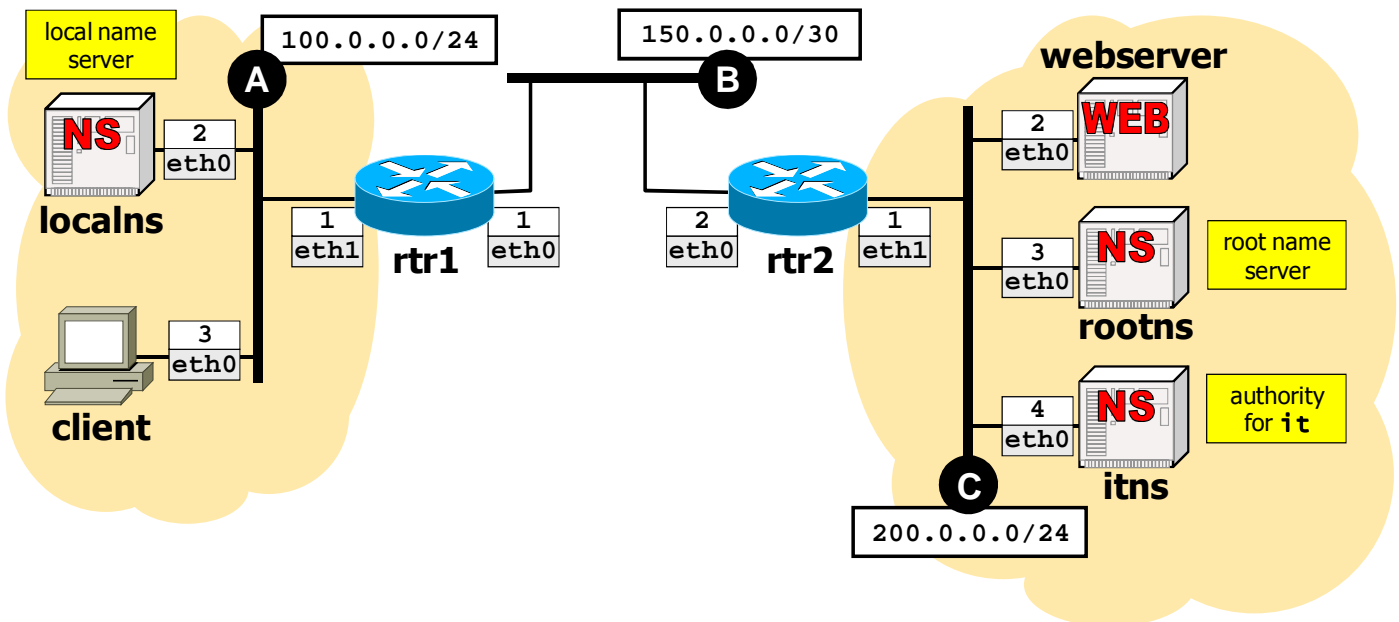Using Netkit, implement the network depicted in the figure and described below.

- Routing is configured by using static routes.

- There is a DNS service available on the network, structured as follows:
  - **root-ns** is the root name server;
  - **srv-ns** is the authority for **srv**;
  - **ns** is the local name server for **user-pc** (it is not authoritative for any zones).

- There is also a Web server on this network, implemented by **websrv**:
  - this node has DNS name **web.srv**;
  - this node serves a web page for the *guest* user, **http://web.srv/~guest/**, which contains an HTML redirect to a global page **http://web.srv/real_index.html** (with arbitrary contents), implemented by the following code fragment:
    ```
    <head>
      <meta http-equiv="refresh" content="0;URL=http://web.srv/real_index.html">
    </head>
    ```

Goal: **user-pc** must be able to access the Web page published by user *guest* on **web.srv** using **links**. Users must be presented with a redirect towards the global page **real_index.html**.

Available time: <u>90 minutes</u>.

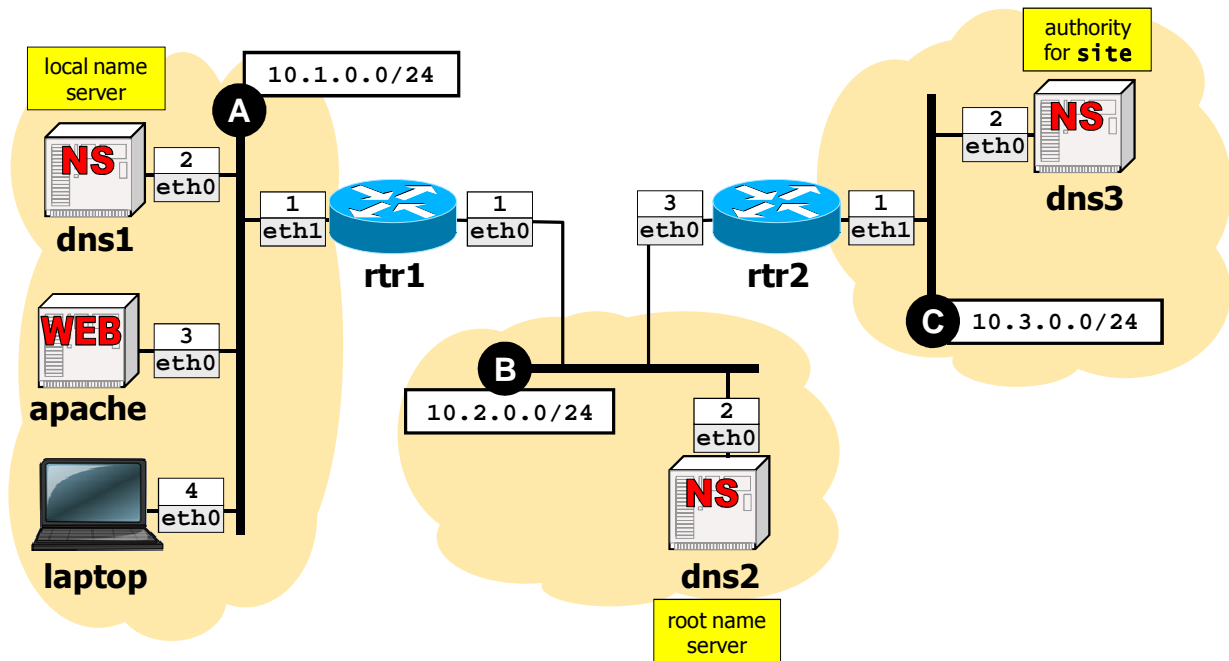Using Netkit, implement the network depicted in the figure and described below.

▪ Routing is configured by using static routes.

▪ There is a DNS service available on the network, structured as follows:
  • **rootns** is the root name server;
  • **itns** is the authority for **it**;
  • **localns** is the local name server for **client** (it is not authoritative for any zones).

▪ There is also a Web server on this network, implemented by **webserver**:
  • this node has DNS name **sito.it**;
  • this node serves a web page for the *guest* user, **http://sito.it/~guest/**, which contains an HTML redirect to a global page **http://sito.it/global_index.html** (with arbitrary contents), implemented by the following code fragment:
  ```
  <head>
    <meta http-equiv="refresh" content="0;URL=http://sito.it/global_index.html">
  </head>
  ```

<mark>**Goal**: **client** must be able to access the Web page published by user *guest* on **sito.it** using **links**. Users must be presented with a redirect towards the global page **global_index.html**.</mark>

Available time: 90 minutes.

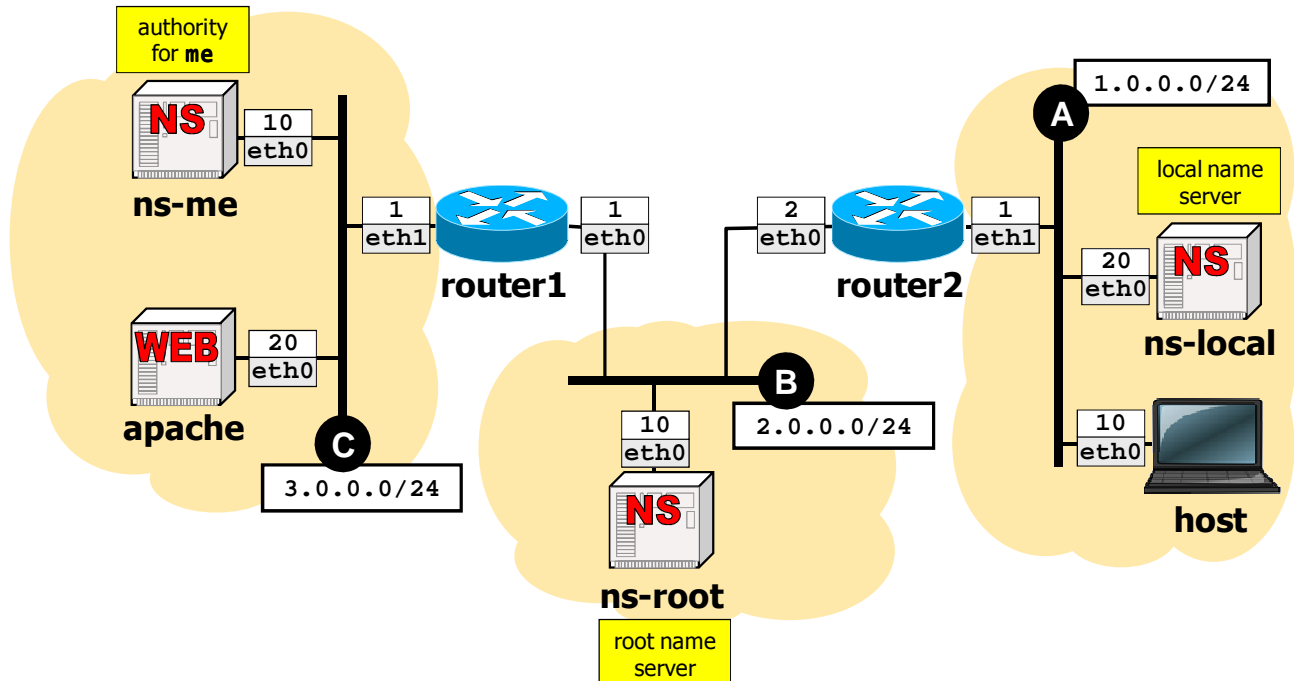Using Netkit, implement the network depicted in the figure and described below.

▪ Routing is configured by using static routes.

▪ There is a DNS service available on the network, structured as follows:
  - **dns2** is the root name server;
  - **dns3** is the authority for **site**;
  - **dns1** is the local name server for **laptop** (it is not authoritative for any zones).

▪ There is also a Web server on this network, implemented by **apache**:
  - this node has DNS name **my.site**;
  - this node serves a web page for the *guest* user, **http://my.site/~guest/**, which contains an HTML redirect to a global page **http://my.site/index2.html** (with arbitrary contents), implemented by the following code fragment:
    ```
    <head>
      <meta http-equiv="refresh" content="0;URL=http://my.site/index2.html">
    </head>
    ```

Goal: **client** must be able to access the Web page published by user *guest* on **my.site** using **links**. Users must be presented with a redirect towards the global page **index2.html**.

Available time: 90 minutes.

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

- Routing is configured by using static routes.

- There is a DNS service available on the network, structured as follows:
    - **ns-root** is the root name server;
    - **ns-me** is the authority for **me**;
    - **ns-local** is the local name server for **host** (it is not authoritative for any zones).

- There is also a Web server on this network, implemented by **apache**:
    - this node has DNS name **open.me**;
    - this node serves a web page for the *guest* user, **http://open.me/~guest/**, which contains an HTML redirect to a global page **http://open.me/index_global.html** (with arbitrary contents), implemented by the following code fragment:
      ```
      <head>
        <meta http-equiv="refresh" content="0;URL=http://open.me/index_global.html">
      </head>
      ```

Goal: **host** must be able to access the Web published by user *guest* on **open.me** using **links**. Users must be presented with a redirect towards the global page **index_global.html**.