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

- Routing is implemented by using statically configured routes.
- Remember to set a default route on all network nodes that do not act as routers, including l4switch.
- ws1 and ws2 are web servers running apache2; they serve a single default page, which is different for each server. In particular, ws1 serves a page containing “ws1” whereas ws2 serves a page containing “ws2”.
- l4switch is a layer 4 web switch that implements a round robin load balancing policy. Use the following commands to properly set it up:

```
iptables -t nat -A PREROUTING -d 40.0.0.40 -m statistic --mode nth --every 2 -j DNAT --to-destination 10.0.0.11
iptables -t nat -A PREROUTING -d 40.0.0.40 -j DNAT --to-destination 10.0.0.22
```

**Goals:**
- **user-pc** must be able to access web page `http://40.0.0.40/` using the `links` web browser.
- The load balancing mechanisms implemented by the web switch must be observable (using `links`).
Using Netkit, implement the network depicted in the figure and described below (you can use the following as a checklist).

- Routing is implemented by using statically configured routes.
- Remember to set a default route on all network nodes that do not act as routers, including 14–ws.
- www1 and www2 are web servers running apache2; they serve a single default page, which is different for each server. In particular, www1 serves a page containing “www1” whereas www2 serves a page containing “www2”.
- 14–ws is a layer 4 web switch that implements a round robin load balancing policy. Use the following commands to properly set it up:

```
On a single line!
iptables -t nat -A PREROUTING -d 20.0.0.40 -m statistic --mode nth --every 2 -j DNAT --to-destination 10.0.0.11
iptables -t nat -A PREROUTING -d 20.0.0.40 -j DNAT --to-destination 10.0.0.22
```

**Goals:**
- pc must be able to access web page http://20.0.0.40/ using the links web browser.
- The load balancing mechanisms implemented by the web switch must be observable (using links).
Using Netkit, implement the network depicted in the figure and described below (you can use the following as a checklist).

- Routing is implemented by using statically configured routes.
- Remember to set a default route on all network nodes that do not act as routers, including balancer.
- web1 and web2 are web servers running apache2; they serve a single default page, which is different for each server. In particular, web1 serves a page containing "web1" whereas web2 serves a page containing "web2".
- balancer is a layer 4 web switch that implements a round robin load balancing policy. Use the following commands to properly set it up:

  On a single line:
  ```
  iptables -t nat -A PREROUTING -d 20.0.0.40 -m statistic --mode nth --every 2 -j DNAT --to-destination 10.0.0.11
  iptables -t nat -A PREROUTING -d 20.0.0.40 -j DNAT --to-destination 10.0.0.22
  ```

**Obiettivi:**
- **user** must be able to access web page `http://20.0.0.40/` using the `links` web browser.
- The load balancing mechanisms implemented by the web switch must be observable (using `links`).
Using Netkit, implement the network depicted in the figure and described below (you can use the following as a checklist).

- Routing is implemented by using statically configured routes.
- Remember to set a default route on all network nodes that do not act as routers, including 14-bal.
- apache1 and apache2 are web servers running apache2; they serve a single default page, which is different for each server. In particular, apache1 serves a page containing “apache1” whereas apache2 serves a page containing “apache2”.
- 14-bal is a layer 4 web switch that implements a round robin load balancing policy. Use the following commands to properly set it up:

```
On a single line:
etable -t nat -A PREROUTING -d 40.0.0.40 -m statistic --mode nth --every 2 -j DNAT --to-destination 10.0.0.11
iptables -t nat -A PREROUTING -d 40.0.0.40 -j DNAT --to-destination 10.0.0.22
```

Obiettivi:
- client must be able to access web page [http://40.0.0.40/](http://40.0.0.40/) using the links web browser.
- The load balancing mechanisms implemented by the web switch must be observable (using links).