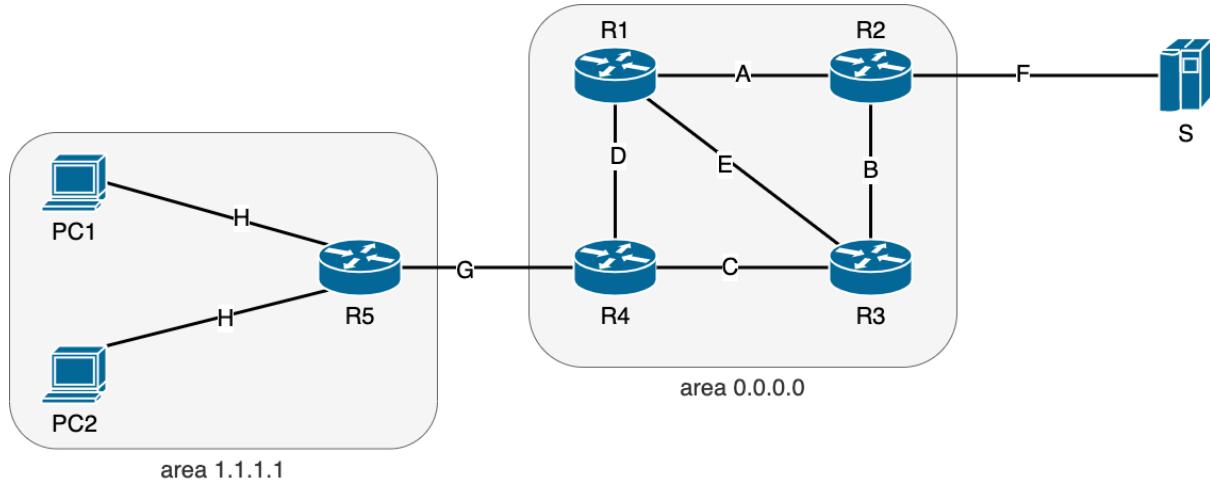


Network Infrastructures Labs 20/21

First Homework

Matricola ending w/: 8-9



Given the topology in figure, reproduce it in **Kathara**. You must use the Container names and collision domain names specified in the figure above.

Collision Domain Name	Subnet ID
A	1.0.1.2/31
B	1.0.1.4/31
C	1.0.1.6/31
D	1.0.1.8/31
E	1.0.1.10/31
F	1.0.1.12/31
G	1.0.1.14/31
H	192.168.0.0/27

For /31 subnets, the addresses are assigned with the following rule: the lower router number takes the even address, e.g. R1 takes 1.0.1.2 with respect to R2. S takes the odd one.

The maximum points are 6 and are assigned as follows:

- +0.5 point: configure S with *iproute2* using startup scripts. Give to S the highest address assignable for the subnet.
- +0.5 point: configure subnet **H** via static */etc/network/interfaces*
- +0.5 point: configure R1-R2-R3-R4-R5 via static */etc/network/interfaces*
- +1 point: configure TAP interface on R2. Configure default gateways in order to allow the subnets to go to the internet.
- +1.5 points: Configure OSPF on (*and only on*) routers in order to have a fully-routable network. Respect areas given in figure.

Restart of all the daemons is required.