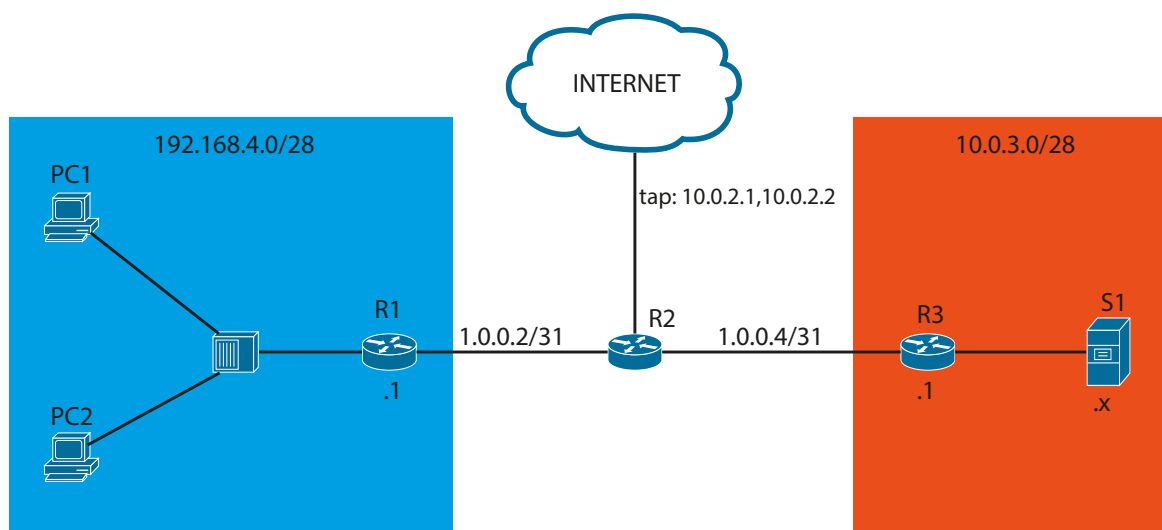


First Homework: D topology

For MATRICOLA ending with 8-9



Given the topology in figure, reproduce it in netkit. You must use the VM names and addresses specified in the figure above.

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. The maximum points are 6 and are assigned as follows:

- +0.5 point: lab and folders created with correct lab.conf
- +0.5 point: configure subnet 10.0.3.0/28 with iproute2 using startup scripts. Give to S1 the highest address **assignable** of the subnet.
- +1 point: configure subnet 192.168.4.0/28 with DHCP using R1 as DHCP server
- +1 point: configure 1.0.0.2/31 and 1.0.0.4/31 via static /etc/network/interfaces
- +1 point: configure TAP interface on R2
- +1 point: Use NAT to allow the party to go to Internet. Configure default gateways in order to allow the subnets to go to the internet.
- +1 point: Using netcat and tcpdump, send "d_topo" string on UDP port 9000 from PC1 to S1 and capture the communication. (Include in the lab only the relevant .pcap file)

Restart of all the daemons is required.