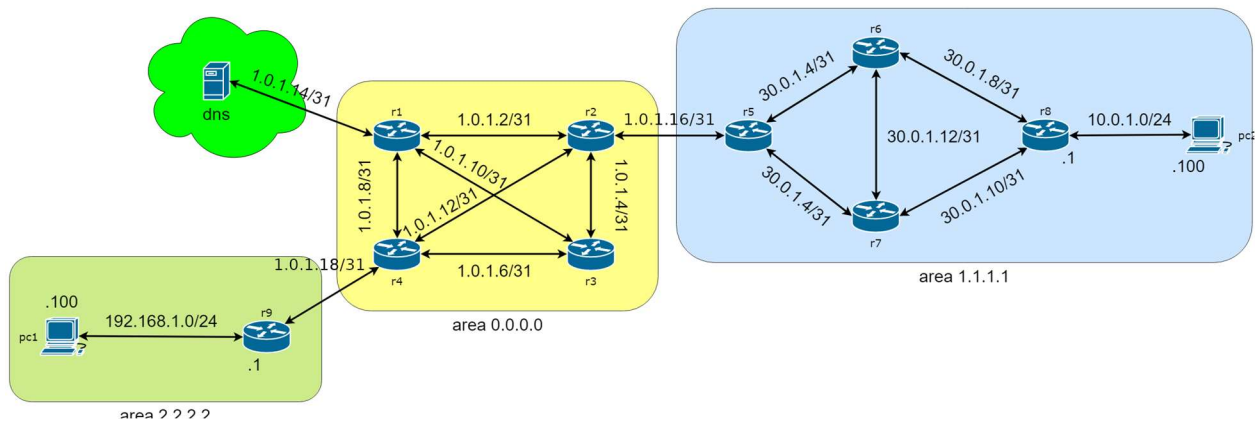# Netkit Exam

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*. DNS takes the odd address. The maximum points are **22** and are assigned as follows:

- +2 points: interfaces of every host configured via */etc/network/interfaces*
- +6 points: configure OSPF only on routers in order to have dynamic routing. Respect the areas given in figure
- +7 points: Configure DNS as DNS server for the whole network, creating a domain *exam.org*. Every host (routers included) must be reachable by his hostname.exam.org, e.g. r1.exam.org must refer to r1. Every host must use *dns* as DNS server
- +7 points: Create a user called *user* with password *user* on every router and allow s2 to access the routers trough ssh via asymmetric authentication. (**This must be done at startup**)