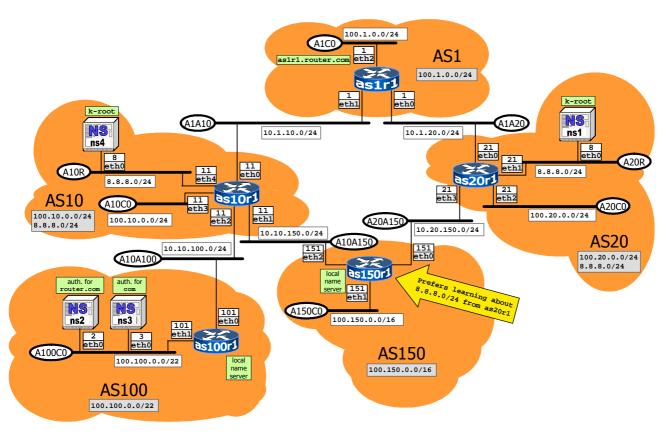
ICN – Examination date: 25-01-2012 – "Sepia"

Available time: 80 minutes

Using Netkit, implement the network shown in the following picture. Interconnection networks between border routers <u>must be announced</u> in BGP. All the networks that are internal to the autonomous systems must be reachable from any other internal network. Name **aslrl.router.com** must be resolvable from **asl00rl** and **asl50rl** and the corresponding router be reachable from the same points.

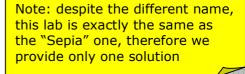


Important notes:

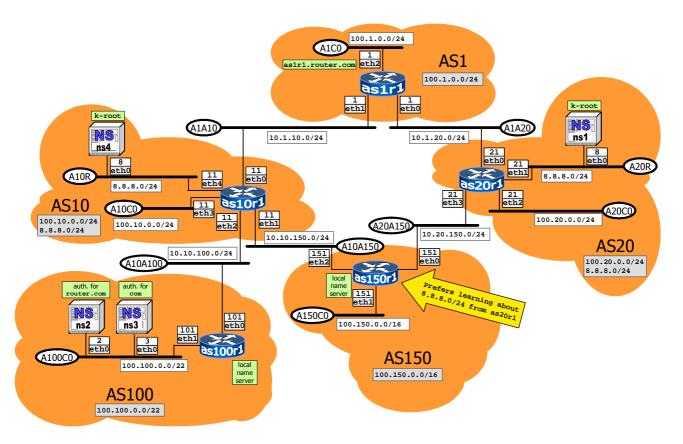
- ns1, ns2, ns3, and ns4 are name servers; ns1 and ns4 are two root name servers and their /24 network is announced in anycast via BGP (similarly to what happens in the real world for k-root); ns2 is the authority for router.com and ns3 is the authority for com; 100.1.0.1 is assigned the name as1r1.router.com; as100r1 and as150r1 are local name servers for themselves.
- 2. Router **as150r1** must obey the routine policy indicated in the arrow.
- 3. No routers announce the default route 0/0.
- 4. Remember to specify the default gateway when configuring a host.



Available time: 80 minutes



Using Netkit, implement the network shown in the following picture. Interconnection networks between border routers <u>must be announced</u> in BGP. All the networks that are internal to the autonomous systems must be reachable from any other internal network. Name **aslrl.router.com** must be resolvable from **asl00rl** and **asl50rl** and the corresponding router be reachable from the same points.



Important notes:

- 5. ns1, ns2, ns3, and ns4 are name servers; ns1 and ns4 are two root name servers and their /24 network is announced in anycast via BGP (similarly to what happens in the real world for k-root); ns2 is the authority for router.com and ns3 is the authority for com; 100.1.0.1 is assigned the name as1r1.router.com; as100r1 and as150r1 are local name servers for themselves.
- 6. Router **as150r1** must obey the routine policy indicated in the arrow.
- 7. No routers announce the default route 0/0.
- 8. Remember to specify the default gateway when configuring a host.