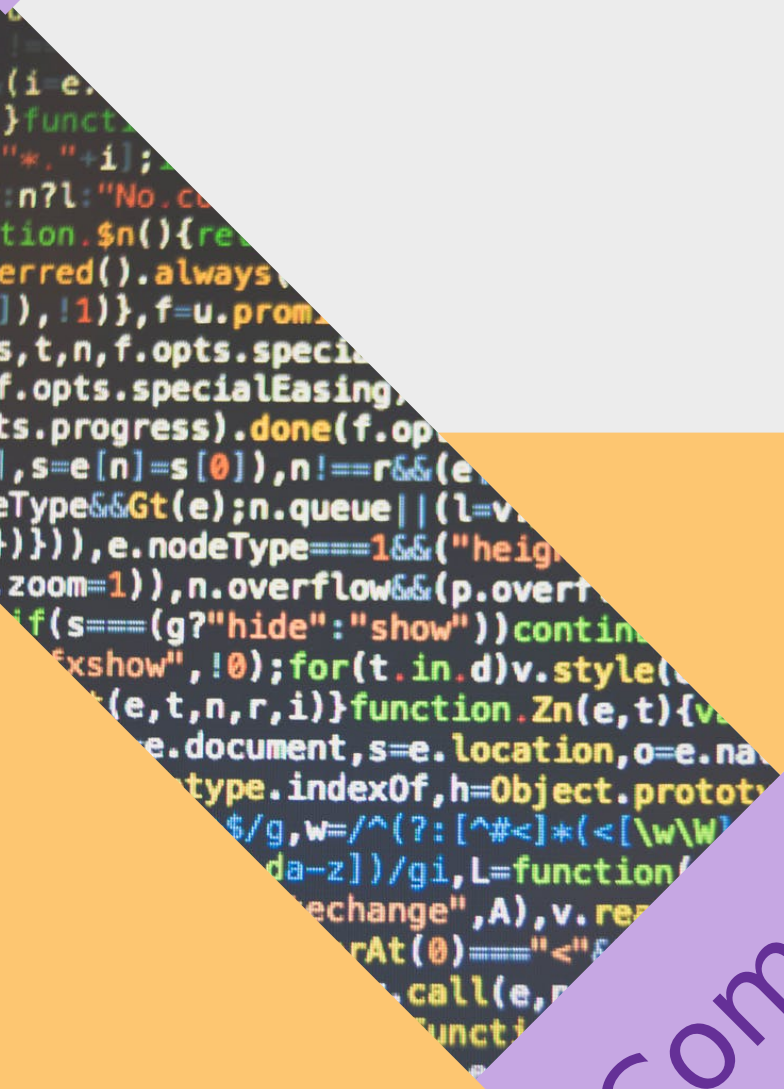
Curs 2019-2020



Computer Systems
Network activities II

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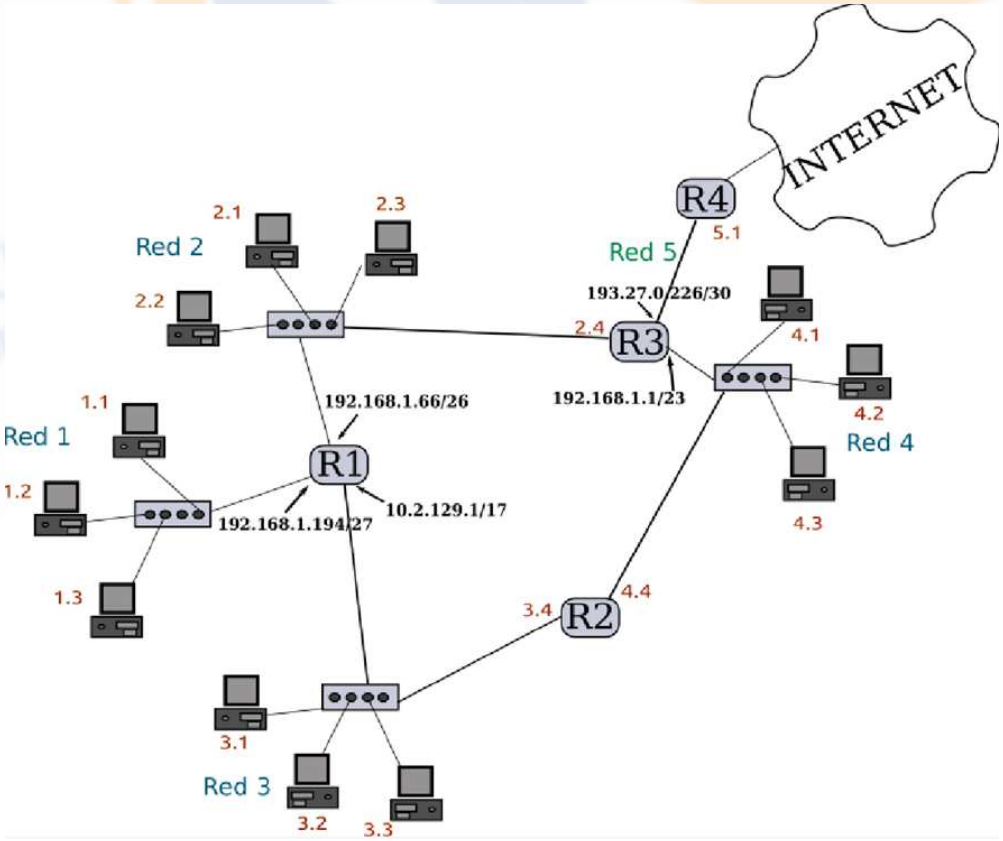
1. The objective is to split a network in 8 subnetworks. Which network mask should be used in order to have 2500 hosts per subnetwork?
2. Which of the following IPs don't belong to the same net if the network mask used is 255.255.224.0?
   (a) 172.16.66.24
   (b) 172.16.65.33
   (c) 172.16.64.42
   (d) 72.16.63.51
3. With the following IP 192.168.85.129 and the network mask 255.255.255.192, what is the network ID and the broadcast address of the network?
4. What is the network id and the suitable network mask for a company which has 39 hosts?
5. Identify the network ID given: the IP is 150.40.0.0, and must provide 4 subnetworks.

Number of networks	Subnetwork ID	First host IP	Last host IP

6. Given 192.168.50.0 IP with network mask 255.255.255.0, identify the subnetworks if it is required to have 60 hosts for each one.
7. Calculate:
   (a) The ID network and broadcast IP for each subnetwork
   (b) The IP address for each host or device.
   (c) Calculate the routing for the routers 1, 2 and 3



8. Answer the following questions:

   (a) Identify: How many hosts can we have?

      i. In an A class network

      ii. In a B class network

      iii. In a C class network.

   (b) How many hosts can we have in a class C network with ID mask 255.255.255.128.

   (c) How many hosts can we have in a class C network with ID mask 255.255.255.192.