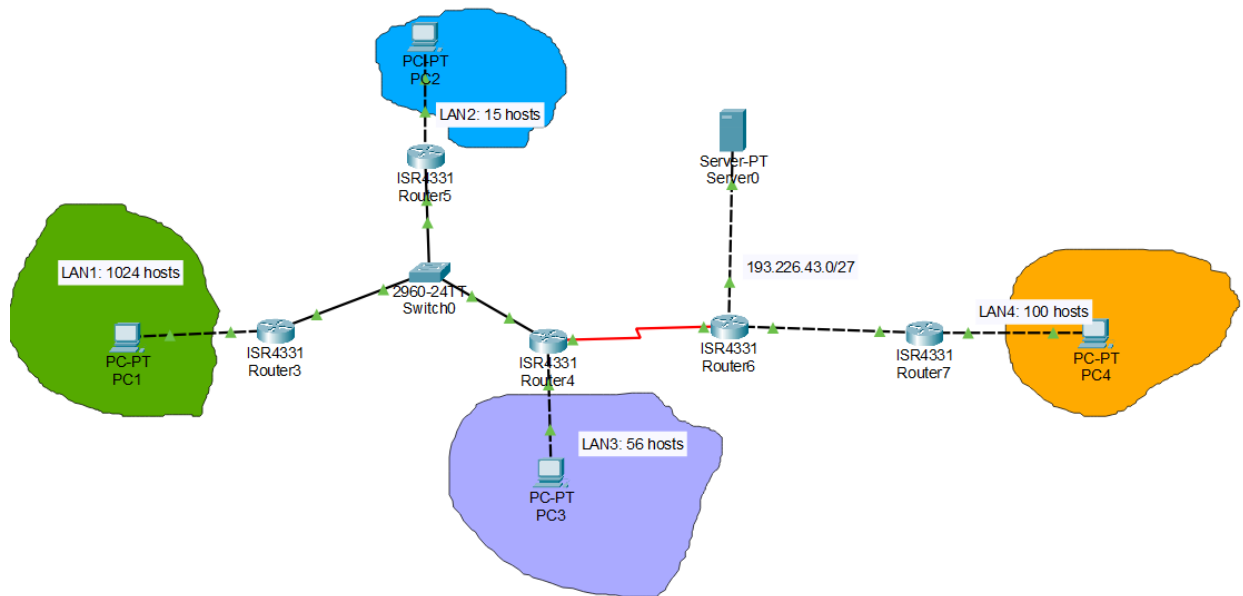


Computer networks

Packet tracker laboratory exam

Date: 08.01.2024
Allotted time: 1h 30 min



(3p) Starting from the network **192.168.128.0/17** perform the subnetting such that each subnetwork has the smallest size (host numbers) that fit the number of hosts specified on the diagram above.

For each subnetwork write (in a document or on a piece of paper): the ip address of the network, the network mask, the number of hosts it can store and the broadcast address.

(1p) Setup the server *Server 0* to be both a web server and a DNS server. At least the address of the server should be mapped to the name *cs.ubbcluj.ro*.

(2p) Add at least two hosts in each local area network and assign IPs in the following manner: for LAN1 use DHCP and also set the DNS server to the server *Server0*. For the other local area networks use static IP addressing.

(2p) Configure routing using Routing Information Protocol.

(1p) Configure NAT on a router, such that all the packets coming from to LAN1 and going to the server *Server0* are translated.

Default: 1p