Given the network topology reported in the Figure, the student has to configure the following devices: Router0, Router1, Router2, PC0, PC1 and Server0. The following operations must be provided.

1) To assign IP addresses on the basis of the following guidelines:

    a. Router0 interfaces must use the last available address of the addresses block (in the case of clock, use 64000 value), Router1 and Router2 interfaces must use the first available IP address of the addresses block.

    b. IP addresses for network 10.0.1.0/24 must be assigned statically.

    c. IP address for network 10.0.0.0/24 must be assigned dynamically, excluding from the block of dynamic IP addresses the last 20 addresses available. Server0 must have IP address 10.0.0.2

2) Routing must be configured considering that:

    a. in the network portion identified by the dotted line, routing is static:

    b. in the rest of the network, RIP is used;

    c. the path to reach Internet is the shortest one (in terms of number of hops).

3) NAT must allow hosts of private networks to share the IP address of interface Fa6/0 of Router0; as an exception, Server0 has to use public IP 11.0.0.130.