

Given the network topology reported in the Figure, the student has to configure the following devices: Router0, Router3, PC0, PC1, PC2, PC3 and Server0. The dotted line represent the area managed by the same administrative entity (ISP). The following operations must be executed.

- 1) IP addresses assignment strategy is based on the following guidelines:
 - a. Router0 interfaces must use the first available address of the addresses block (in the case of clock, use 64000 value).
 - b. Router3 interfaces must use the last available address of the addresses block (in the case of clock, use 64000 value).
 - c. IP addresses for networks 10.0.15.0/24, 192.168.1.0/24 and 18.0.0.0/24 must be assigned statically.
 - d. IP addresses for network 192.168.0.0/25 must be assigned dynamically, excluding from the block of dynamic IP addresses the first 23 available addresses. Server0 must have IP address 192.168.0.105
- 2) Routing must be configured considering that:
 - a. OSPF is already enabled on Router1, Router2, Router4 and Router5, and links costs are 1 for FastEthernet interfaces and 64 for Serial interfaces;
 - b. the number of control messages should be minimized;
 - c. for Router0, OSPF must not use Router3 as next hop while Internet must be reached using Router1 as next hop;
 - d. for Router3 Internet must be reached using Router5 as next hop.
- 3) NAT must be configured where needed using a feasible solution (your choice).

