NATIONAL UNIVERSITY OF MODERN LANGUAGES

Computer Networks lab Report - 5

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PROGRAM: BSSE (5th Semester)

**COURSE:** Computer Networks

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LAB 5: Securing the Switch and Router

Objectives

a) Configuring MOTD banner and Telnet in packet tracer.

b) Learn about telnet configuration in Cisco packet tracer.

c) We will encrypt various passwords configured on the Cisco device using commands.

d) we will be configuring switch port security in the packet tracer to secure the Switch from

e) Unauthorized access.

f) We will also learn how to limit the MAC address to connect to the switch port.
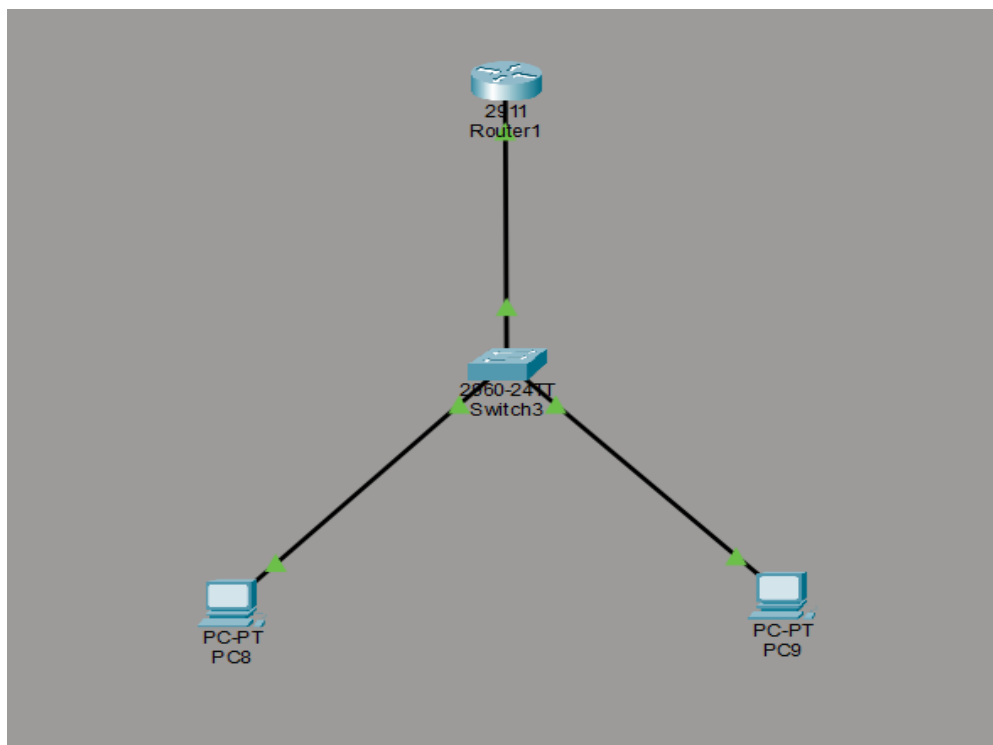
```
Router>enable
Router#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#
Router(config)## Set hostname
                ^
% Invalid input detected at '^' marker.

Router(config)#hostname R1
R1(config)#
R1(config)## Set MOTD banner
            ^
% Invalid input detected at '^' marker.

R1(config)#banner motd # Unauthorized access is prohibited! #
R1(config)#
R1(config)## Set console password
            ^
% Invalid input detected at '^' marker.

R1(config)#line console 0
R1(config-line)#password cisco
R1(config-line)#login
R1(config-line)#exit
R1(config)#
R1(config)## Set enable password
            ^
% Invalid input detected at '^' marker.

R1(config)#enable secret admin123
R1(config)#
R1(config)## Encrypt all passwords
            ^
% Invalid input detected at '^' marker.

R1(config)#service password-encryption
R1(config)#
R1(config)## Configure Telnet
            ^
% Invalid input detected at '^' marker.

R1(config)#line vty 0 4
R1(config-line)#password telnet123
R1(config-line)#login
R1(config-line)#transport input telnet
R1(config-line)#exit
R1(config)#
R1(config)## Assign an IP to the router interface
            ^
```

```
Press RETURN to get started!

 Authorized Access Only!

User Access Verification

Password:
Password:
```

```
User Access Verification

Password:
Password:
Password:

S1>
S1>enab
S1>enable
Password:
S1#sho
S1#show run
S1#show running-config
Building configuration...

Current configuration : 1326 bytes
!
version 15.0
no service timestamps log datetime msec
no service timestamps debug datetime msec
service password-encryption
```

```
S1#show port-security
Secure Port MaxSecureAddr CurrentAddr SecurityViolation Security Action
             (Count)       (Count)      (Count)
---------------------------------------------------------------------
        Fa0/1       2            0                   0        Shutdown
---------------------------------------------------------------------
S1#
```