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DEPARTMENT OF : ECE

NAME OF THE LABORATORY : Computer Networks

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Module 2.5.5 : Packet Tracer - Configure Initial switch Settings

Aim :- To configure initial switch settings using packet tracer

Part 1:
→ To verify default switch configuration
→ Configure a basic switch configuration
→ Configure a MOTD Banner
→ Save configuration files to NVRAM
→ Configure S2

Tools used :- PC loaded with cisco packet Tracer

Theory :-
There are three ways (modes) of configuring a switch
→ user execution mode
→ privilege mode
→ global mode

Here are some of the commands used in configuration of switch :-

* "enable" is used to enter into privilege mode where you can modify configuration.

* "shao running-config" is used to know the existing configuration of the switch

* "configure terminal" is used to change the host configuration

* "host name" is used to change the name of host device

* "exit" is used to leave from one mode into previous mode

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* "enable password" is used to create a password if one wants to enter privilege mode.

* "enable secret" is used to encrypt a password to enhance security and protection.

* "line console0" is used to connect a switch to line 0.

Procedure:-

→ Configure switch with the following parameters.

a) Device name S1

b) Protect access to the console using the letmein password

c) Configure an enable password of cisco and an enable secret password of itsasecret.

d) Configure an appropriate message to those logging into the switch

e) Encrypt all plain text passwords.

f) Ensure that the configuration is correct

g) Save the configuration file to avoid loss if switch is powered down.

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Source code :-

Switch S1 :-

```
switch > enable
switch # show running-config
switch # configure terminal
switch (config) # hostname S1
S1 (config) # exit

S1 # configure terminal
S1 (config) # line console 0
S1 (config-line) # password letmein
S1 (config-line) # login
S1 (config-line) # exit
S1 (config) # exit
S1 # exit

S1 > enable
S1 # configure terminal
S1 (config) # enable password CI$CO
S1 # show running-config

S1 # config t
S1 (config) # enable secret itsasecret
S1 (config) # exit

S1 # show run
S1 # config t
```

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```
S1(config)# serve password-encryption
S1(config)# exit
S1# config t
S1(config)# banner motd "this is secure area"
S1(config)#exit
S1#
S1# copy running-config startup-config
Destination filename [startup-config] ? [Enter]
Building configuration..
[OK]
```

Switch S2 :-

```
switch>enable
switch# show running-config
switch# configure terminal
switch(config)# hostname SL
S2(config)# exit

S2# configure terminal
S2(config)# line console 0
S2(config-line)# password letmein
S2(config-line)# login
S2(config-line)# exit
S2(config)#exit
S2# exit
```

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```
S2>enable
S2# configure terminal
 S2(config)# enable password cisco
S2# show running-config
S2# config t
S2(config)# enable secret itsasecret
S2(config)# exit
S2# show run
S2# config t
S2(config)# serve password _encryption
S2(config)# exit
S2# config t
S2(config)# banner motd "this is secure area"
S2(config)# exit

S2#
S2# copy running-config startup-config
Destination filename[startup_config]? [Enter]
Building configuration
[ok]
```

Result :- Configured initial switch using packet tracer we have configured both switches 1 and 2.