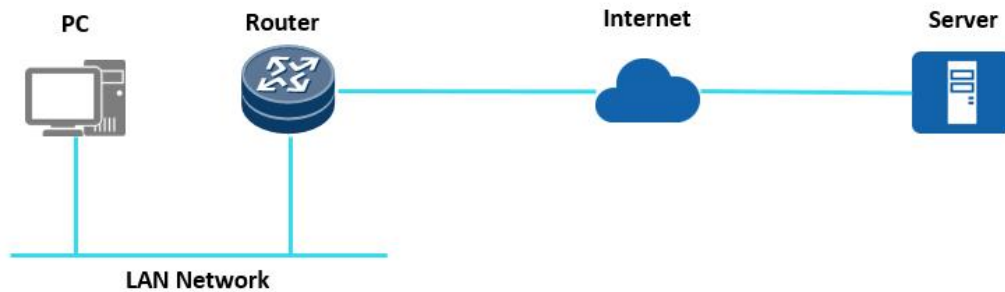# Computer Network Lab

Lab 03 Home work
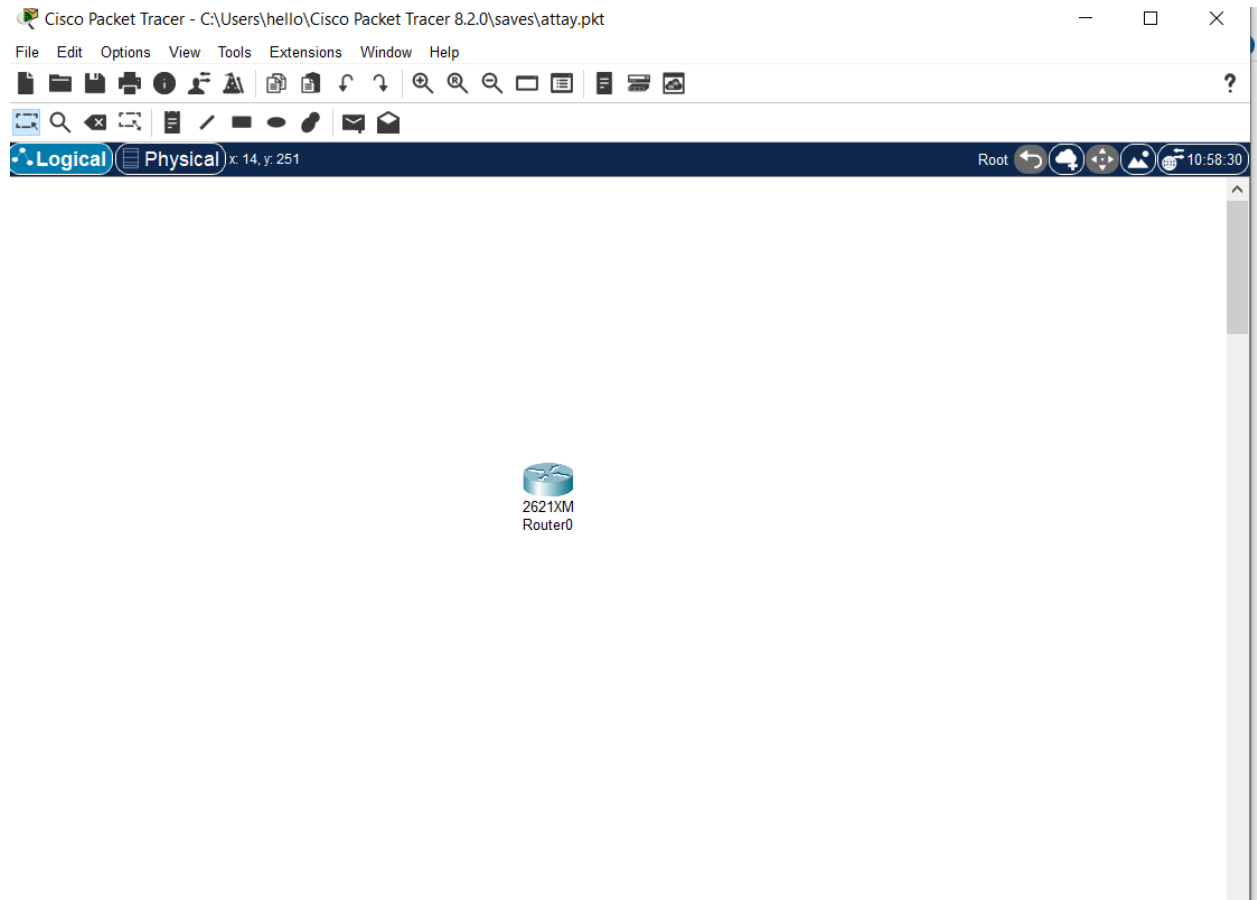

Attay Rasool

P180046

Section A

1. Setting Router Modes on 2600 Series Routers

2. Changing Hostname of the Router

Physical   Config   CLI   Attributes

IOS Command Line Interface

```
Technical Support: http://www.cisco.com/techsupport
Copyright (c) 1986-2005 by cisco Systems, Inc.
Compiled Wed 27-Apr-04 19:01 by miwang

Cisco 2621 (MPC860) processor (revision 0x200) with 253952K/8192K bytes of
memory
.
Processor board ID JAD05190MTZ (4292891495)
M860 processor: part number 0, mask 49
Bridging software.
X.25 software, Version 3.0.0.
2 FastEthernet/IEEE 802.3 interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)


        --- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]: no


Press RETURN to get started!



Router>en
Router#config ter
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname attay
attay(config)#
```

Copy   Paste

2

3. Configuring Date and Time on the Router (Clock Set Command)

```
attay(config)#exit
attay#
%SYS-5-CONFIG_I: Configured from console by console

attay#clock set?
set
attay#clock set 03:34:59?
hh:mm:ss
attay#clock set 03:34:59 20?
<1-31>
attay#clock set 03:34:59 20 sep?
MONTH
attay#clock set 03:34:59 20 sep 2022?
<1993-2035>
attay#clock set 03:34:59 20 sep 2022
```

Copy   Paste

4. Setting a banner on the Router

```
attay#config ter
Enter configuration commands, one per line.  End with CNTL/Z.
attay(config)#banner motd #welcome to mam Hurmat hidayat lab's#
attay(config)#
```

Copy   Paste

5. Displaying the Router's Running-Configuration and Start-Up Configuration

```
attay#show running-config
Building configuration...

Current configuration : 535 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname attay
!
!
!
!
!
!
!
!
ip cef
no ipv6 cef
!
!
 --More--
```

IOS Command Line Interface

```
!
!
!
!
!
!
interface FastEthernet0/0
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface FastEthernet0/1
 no ip address
 duplex auto
 speed auto
 shutdown
!
ip classless
!
ip flow-export version 9
!
!
!
banner motd ^Cwelcome to mam Hurmat hidayat lab's^C
!
!
!
!
 --More--
```

6. Enable Password and Enable Secret Password with the Encryption Techniques/Levels

IOS Command Line Interface

```
attay#config ter
Enter configuration commands, one per line.  End with CNTL/Z.
attay(config)#enable password attay15
attay(config)#exit
attay#
%SYS-5-CONFIG_I: Configured from console by console

attay#ex




attay con0 is now available



Press RETURN to get started.
```

```
welcome to mam Hurmat hidayat lab's

attay>en
Password:
attay#config ter
Enter configuration commands, one per line.  End with CNTL/Z.
attay(config)#enable?
enable
attay(config)#enable secret attay15
The enable secret you have chosen is the same as your enable password.
This is not recommended.  Re-enter the enable secret.
attay(config)#enable secret attay15
The enable secret you have chosen is the same as your enable password.
This is not recommended.  Re-enter the enable secret.
attay(config)#enable secret attay16
attay(config)#ex
attay#
%SYS-5-CONFIG_I: Configured from console by console

attay#
```

7. Line Console Password Implementation on CISCO 2600 Series Router
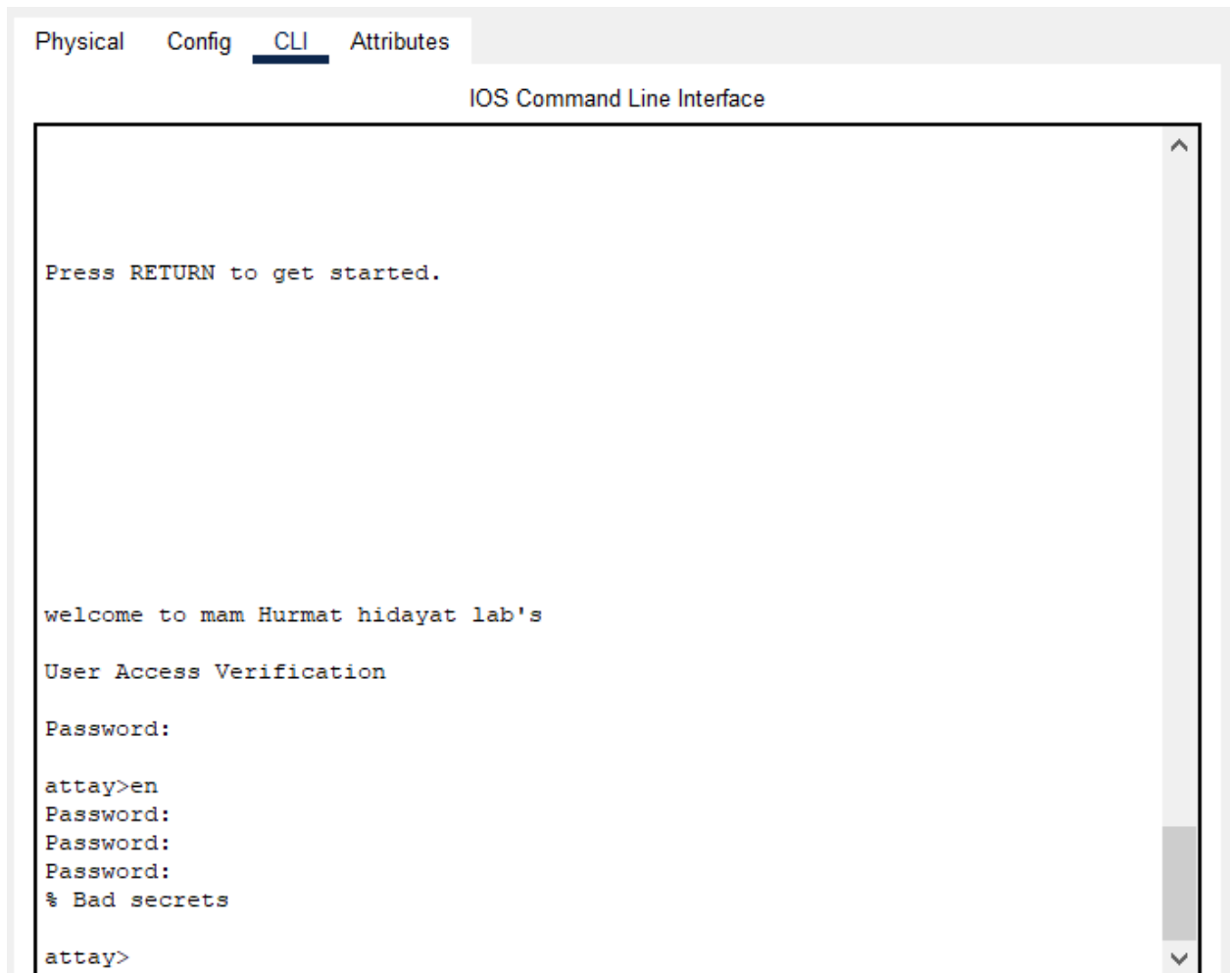
Physical   Config   CLI   Attributes

IOS Command Line Interface

```
attay#
attay#config ter
Enter configuration commands, one per line.  End with CNTL/Z.
attay(config)#line console 0
attay(config-line)#password attay15
attay(config-line)#login
attay(config-line)#end
attay#
%SYS-5-CONFIG_I: Configured from console by console

attay#ex




attay con0 is now available




Press RETURN to get started.
```

```
Physical   Config   CLI   Attributes
                        IOS Command Line Interface


Press RETURN to get started.




welcome to mam Hurmat hidayat lab's

User Access Verification

Password:

attay>en
Password:
Password:
Password:
% Bad secrets

attay>
```

8. What is Telnet? How to Telnet? + Line VTY/Telnet Password

Telnet is a network protocol used to virtually access a computer and to provide a
two-way, collaborative and text-based communication channel between two
machines. It follows a user command Transmission Control Protocol/Internet
Protocol (TCP/IP) networking protocol for creating remote sessions.

The term "vty" stands for Virtual teletype. VTY is a virtual port and used to get Telnet or
SSH access to the device. VTY is solely used for inbound connections to the device. ... The
abstract "0 – 4" means that the device can allow 5 simultaneous virtual connections
which may be Telnet or SSH.

```
attay#config t
Enter configuration commands, one per line.  End with CNTL/Z.
attay(config)#line vty 0 4
attay(config-line)#password attay16
attay(config-line)#login
attay(config-line)#exit
attay(config)#ex
attay#
%SYS-5-CONFIG_I: Configured from console by console

attay#
```

9. Usage of Router with different topology.

 connect to the wireless access point (hub), which is usually both a router for the local network and a bridge to the Internet.

Star topology is a network topology in which **each network component is physically connected to a central node such as a router, hub or switch**. In a star topology, the central hub acts like a server and the connecting nodes act like clients