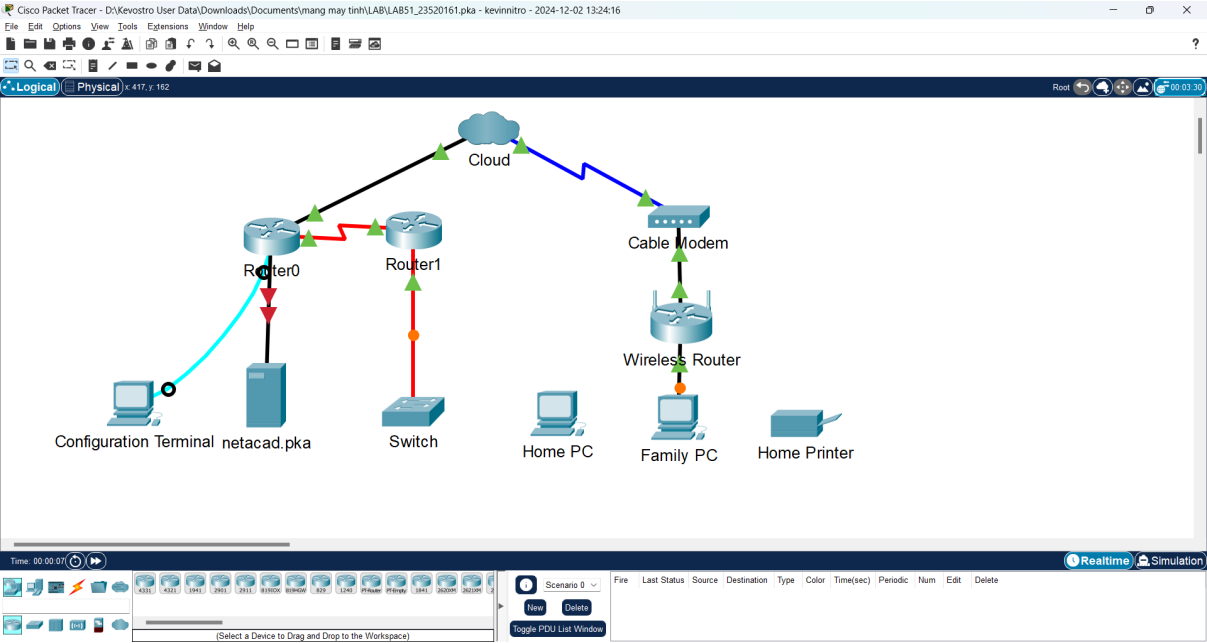


# LAB 4

Họ tên	Trần Nguyễn Thái Bình
MSSV	23520161
Lớp	IT005.P13.2

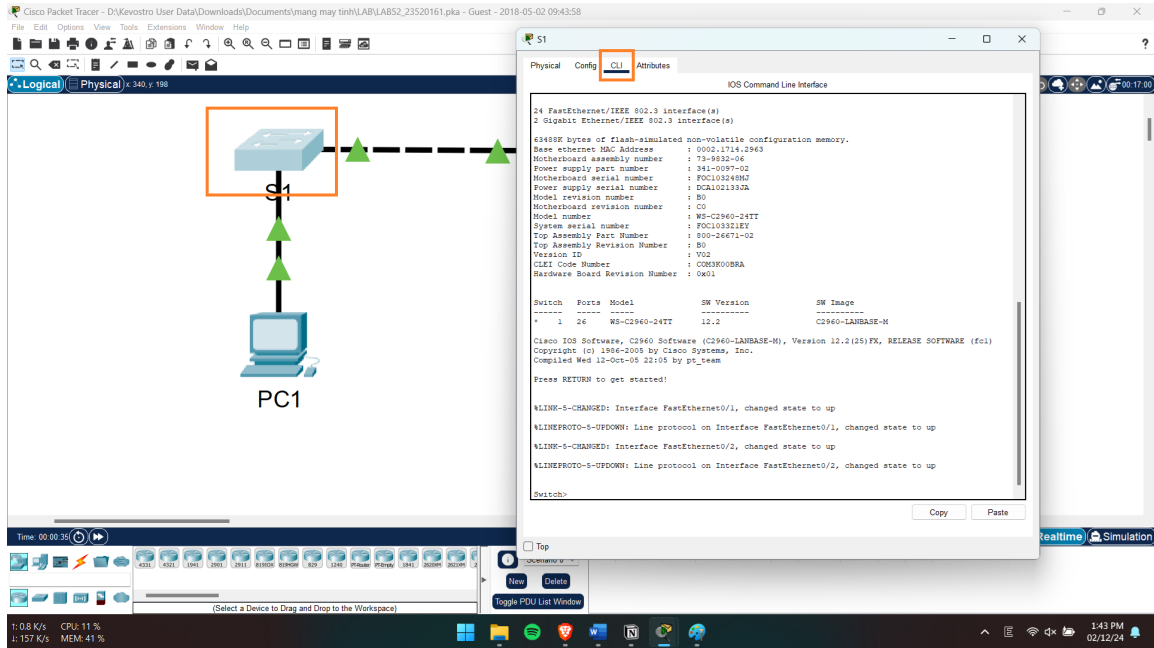
## LAB51

Tên thiết bị	Loại thiết bị
Cloud	Cloud
Router 0	Router
Router 1	Router
Cable Modem	Modem
Wireless Router	Router không dây
Home PC	Máy tính cá nhân
Family PC	Máy tính cá nhân
Home Printer	Thiết bị I/O
Switch	Switch
Netacad	Máy chủ
Configuration terminal	Máy tính cấu hình

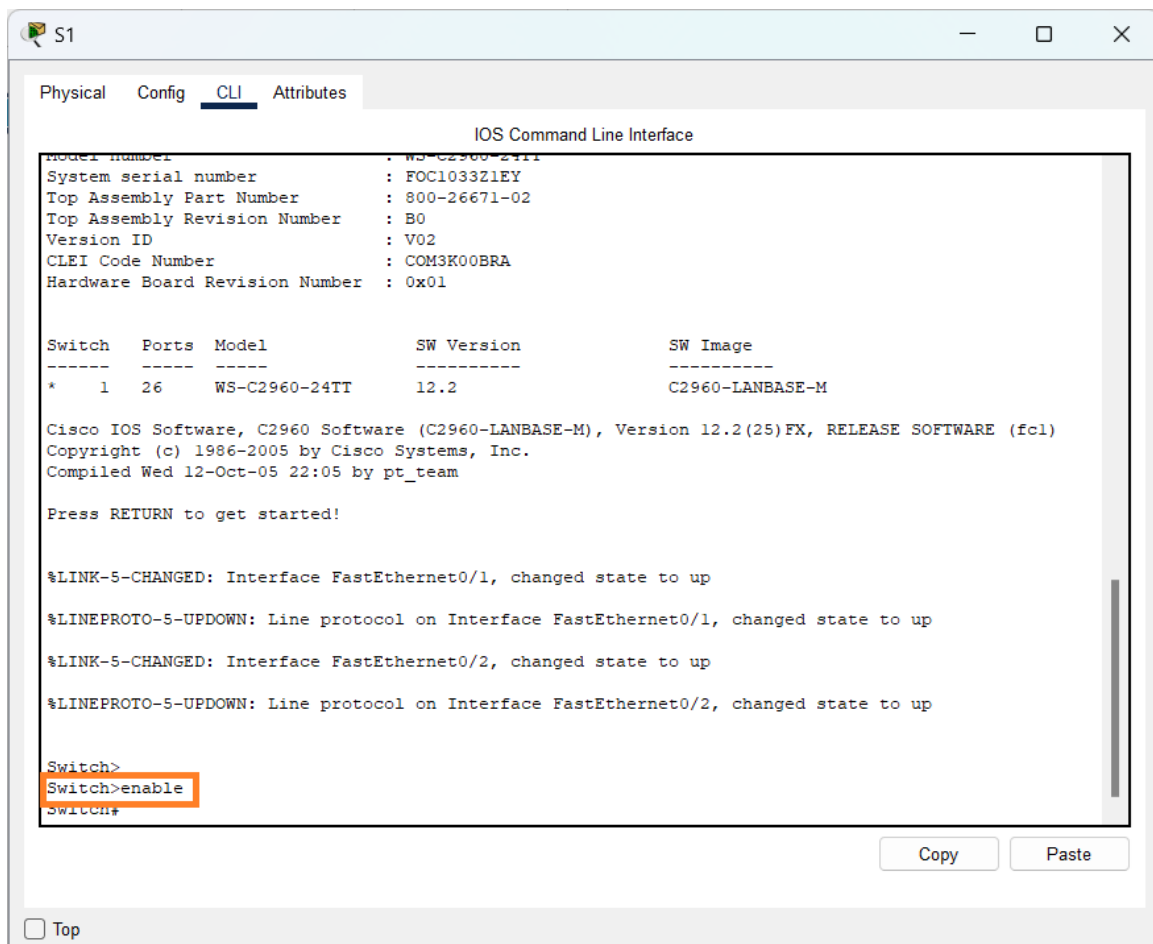


## LAB52

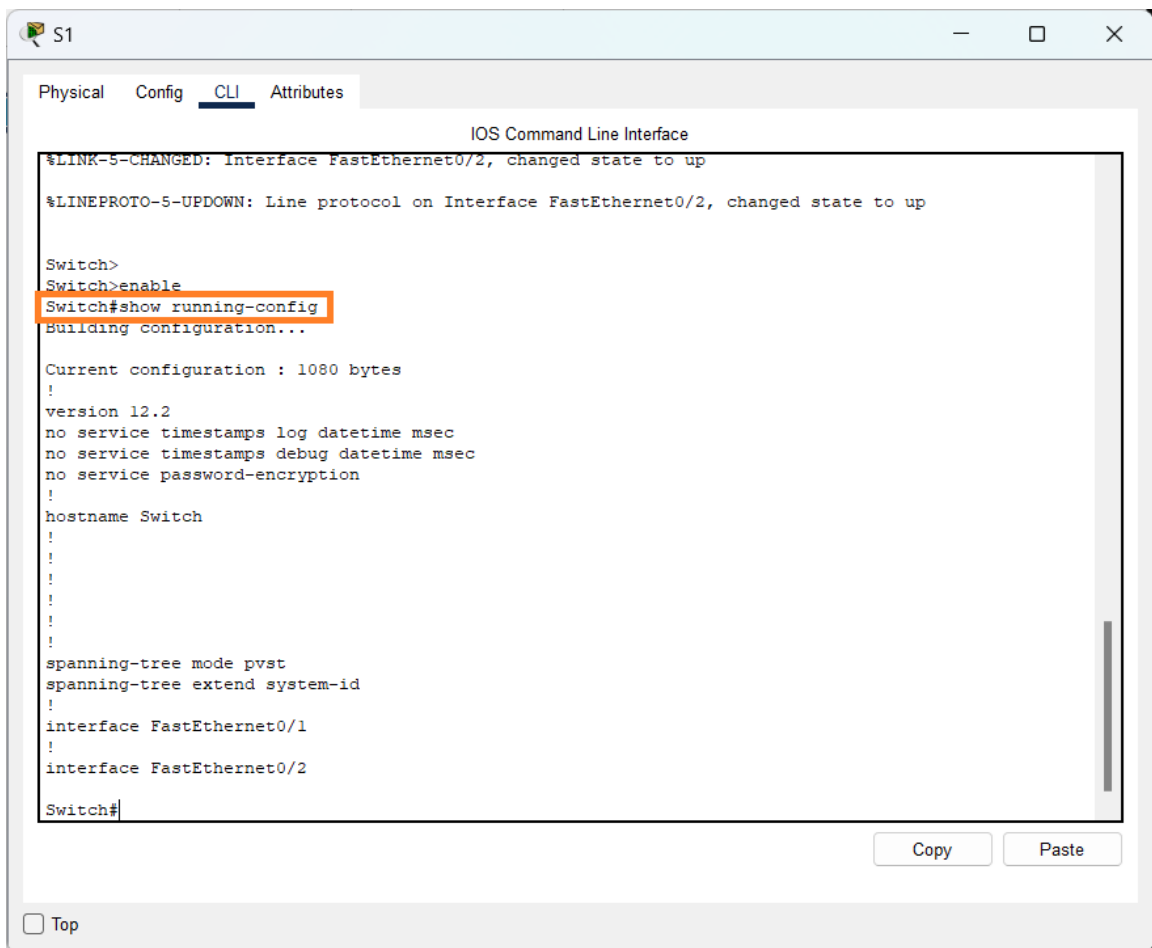
- Chọn S1 và vào tab CLI



- Gõ enable



- Xem cấu hình thiết bị hiện tại



The screenshot shows a network switch CLI window titled 'S1'. The 'CLI' tab is selected. The interface displays the following text:

```
IOS Command Line Interface
%LINK-5-CHANGED: Interface FastEthernet0/2, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/2, changed state to up

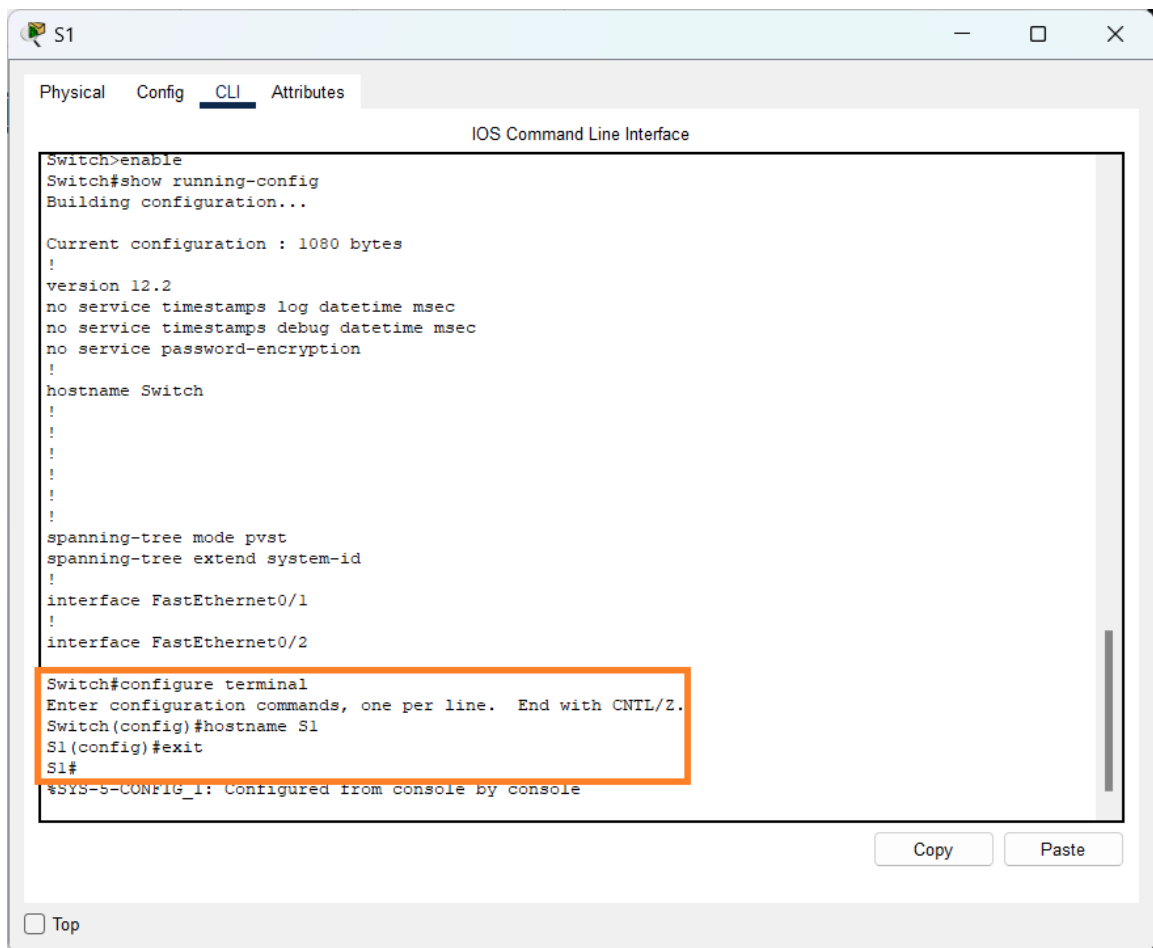
Switch>
Switch>enable
Switch#show running-config
Building configuration...

Current configuration : 1080 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
!
interface FastEthernet0/2

Switch#
```

At the bottom right of the CLI window, there are 'Copy' and 'Paste' buttons. At the bottom left, there is a 'Top' link.

- Đặt tên thiết bị



The screenshot shows a web-based interface for a network switch named 'S1'. The 'CLI' tab is selected, displaying the 'IOS Command Line Interface'. The terminal shows the following sequence of commands and output:

```
Switch>enable
Switch#show running-config
Building configuration...

Current configuration : 1080 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
!
interface FastEthernet0/2
!
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S1
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console
```

An orange rectangular box highlights the last five lines of the terminal output, from 'Switch#configure terminal' to 'S1#'. Below the terminal window, there are 'Copy' and 'Paste' buttons. At the bottom left of the interface, there is a 'Top' link.

- Bảo mật truy cập console bằng cách đặt mật khẩu truy cập là **"letmein"**

The screenshot shows a network switch CLI interface with the following content:

```
Physical  Config  CLI  Attributes

IOS Command Line Interface

no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname Switch
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
!
interface FastEthernet0/2

Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname S1
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console

S1#cls
Translating "cls"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

S1#clear
% Incomplete command.
S1#
S1#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
S1(config)#line console 0
S1(config-line)#password letmein
S1(config-line)#login
S1(config-line)#exit
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console
```

At the bottom of the window, there are "Copy" and "Paste" buttons, and a "Top" link.

- Bảo mật truy cập vào chế độ privileged bằng cách đặt mật khẩu là **"c1\$c0"**

The screenshot shows a network switch CLI interface with tabs for Physical, Config, CLI, and Attributes. The CLI tab is active, displaying the following text:

```
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1
!
interface FastEthernet0/2

Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname S1
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console

S1#cls
Translating "cls"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

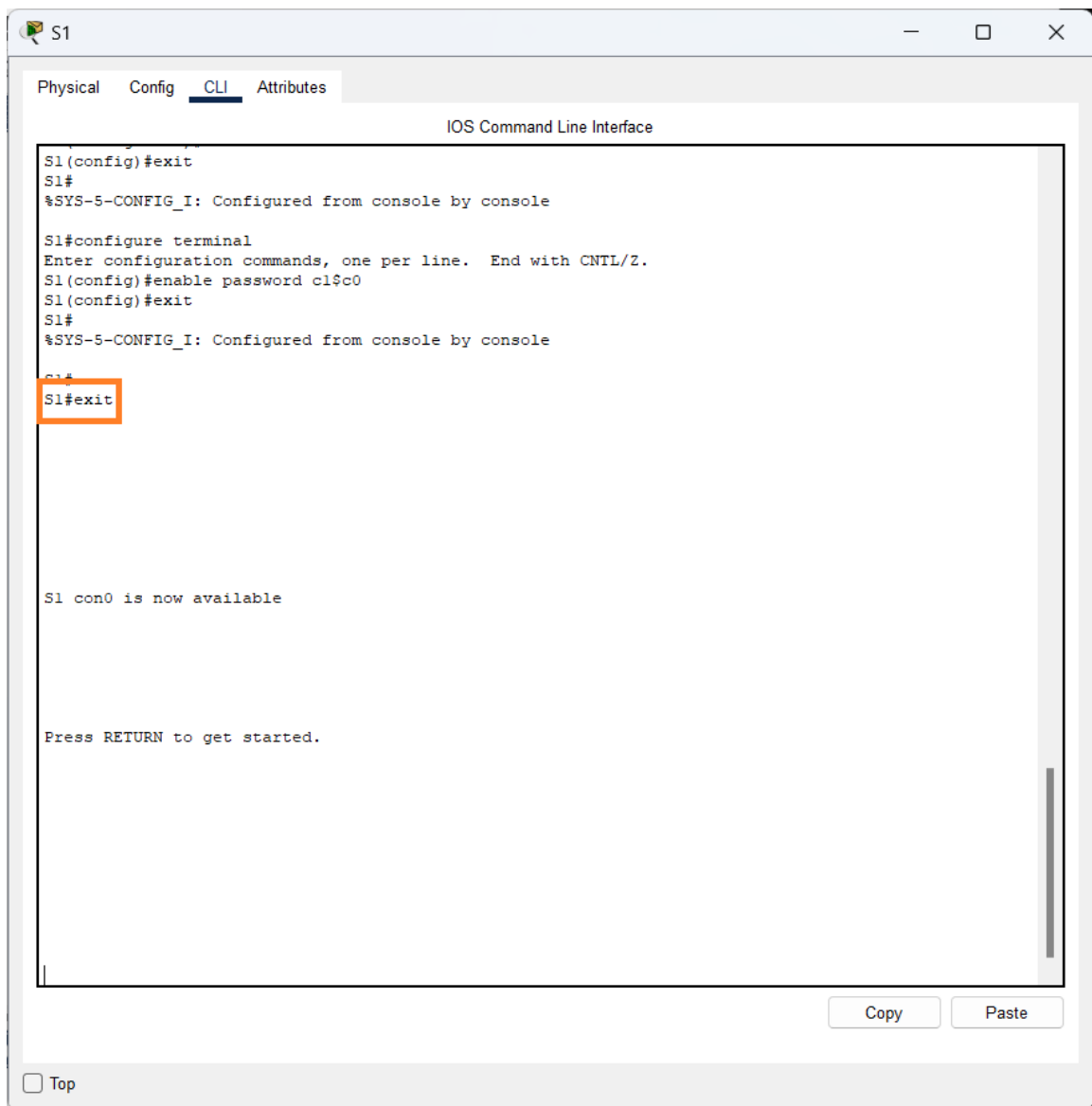
S1#clear
% Incomplete command.
S1#
S1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#line console 0
S1(config-line)#password letmein
S1(config-line)#login
S1(config-line)#exit
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console

S1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#enable password cl$c0
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console

S1#
```

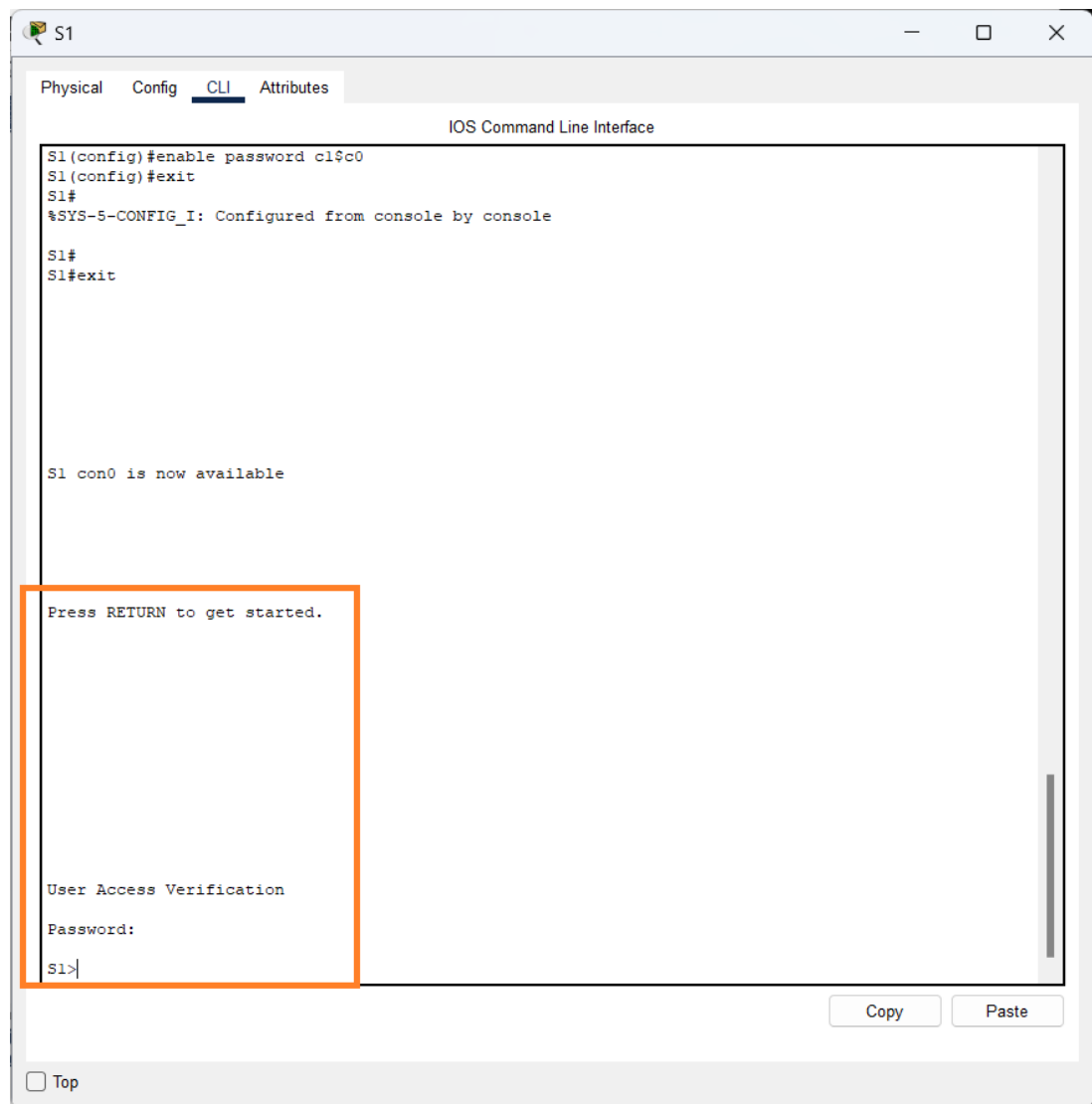
The last configuration block is highlighted with an orange box. At the bottom of the window, there are 'Copy' and 'Paste' buttons, and a 'Top' link.

- Kiểm tra cấu hình bảo mật

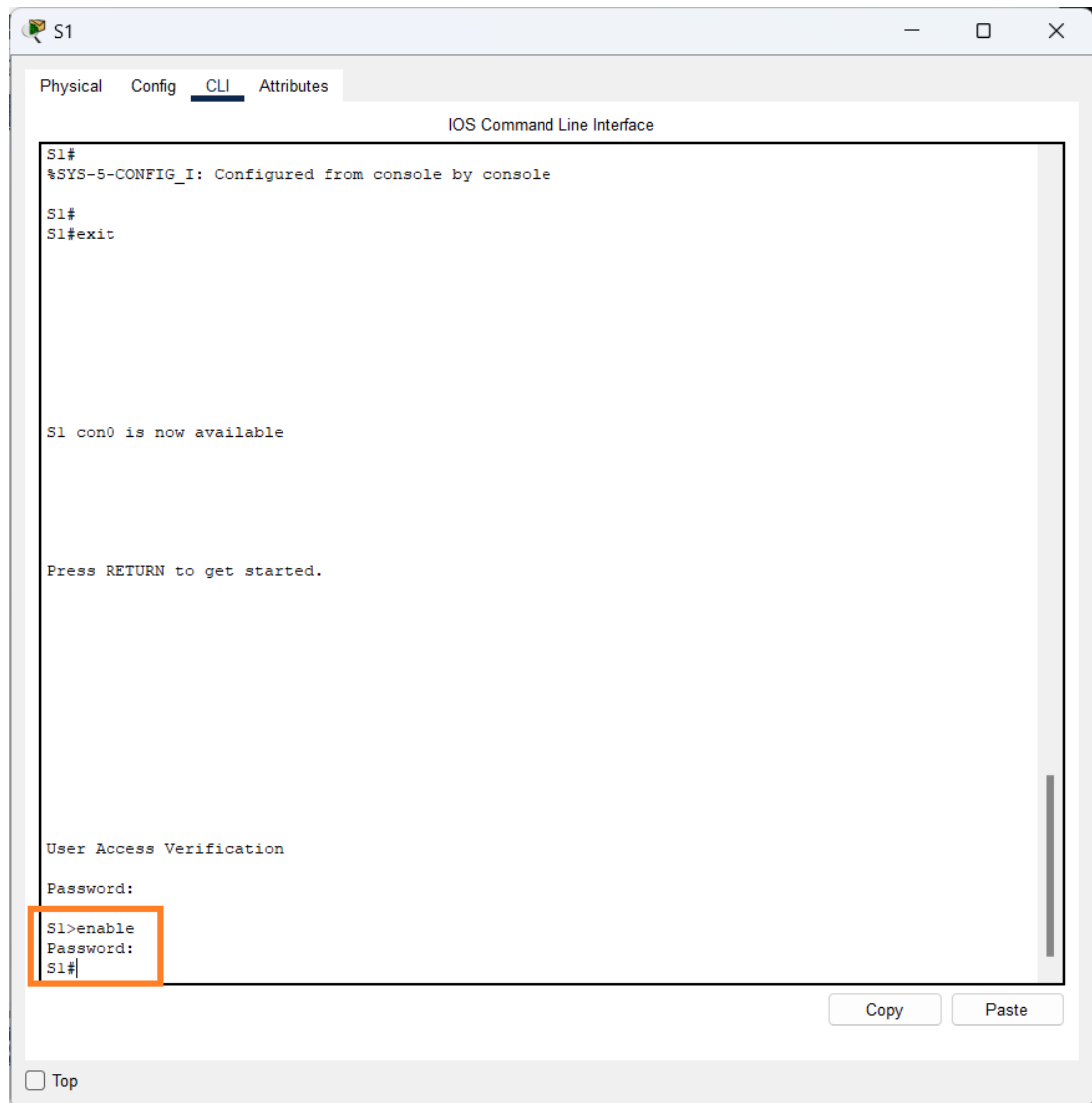


- Nhập letmein

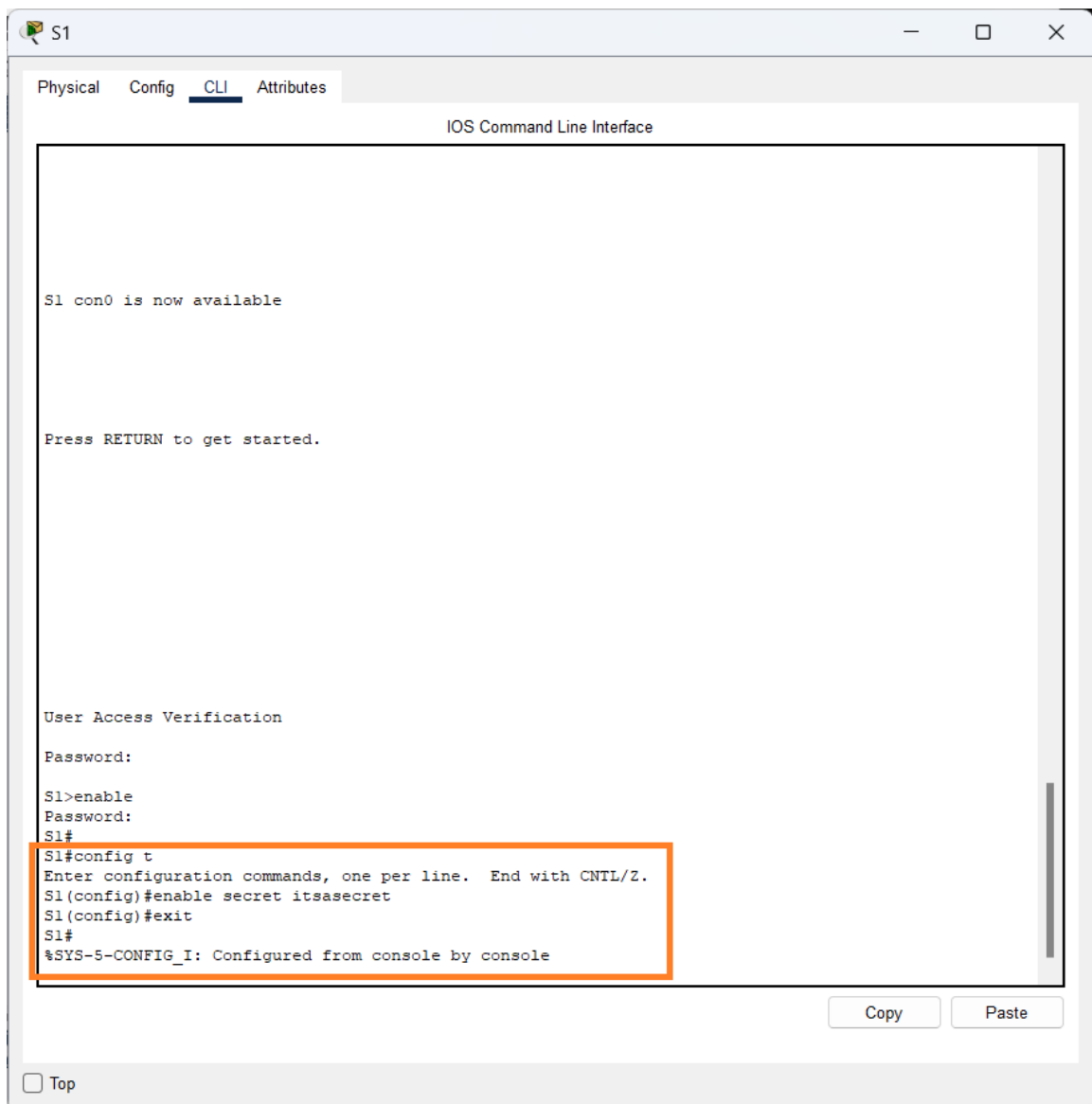




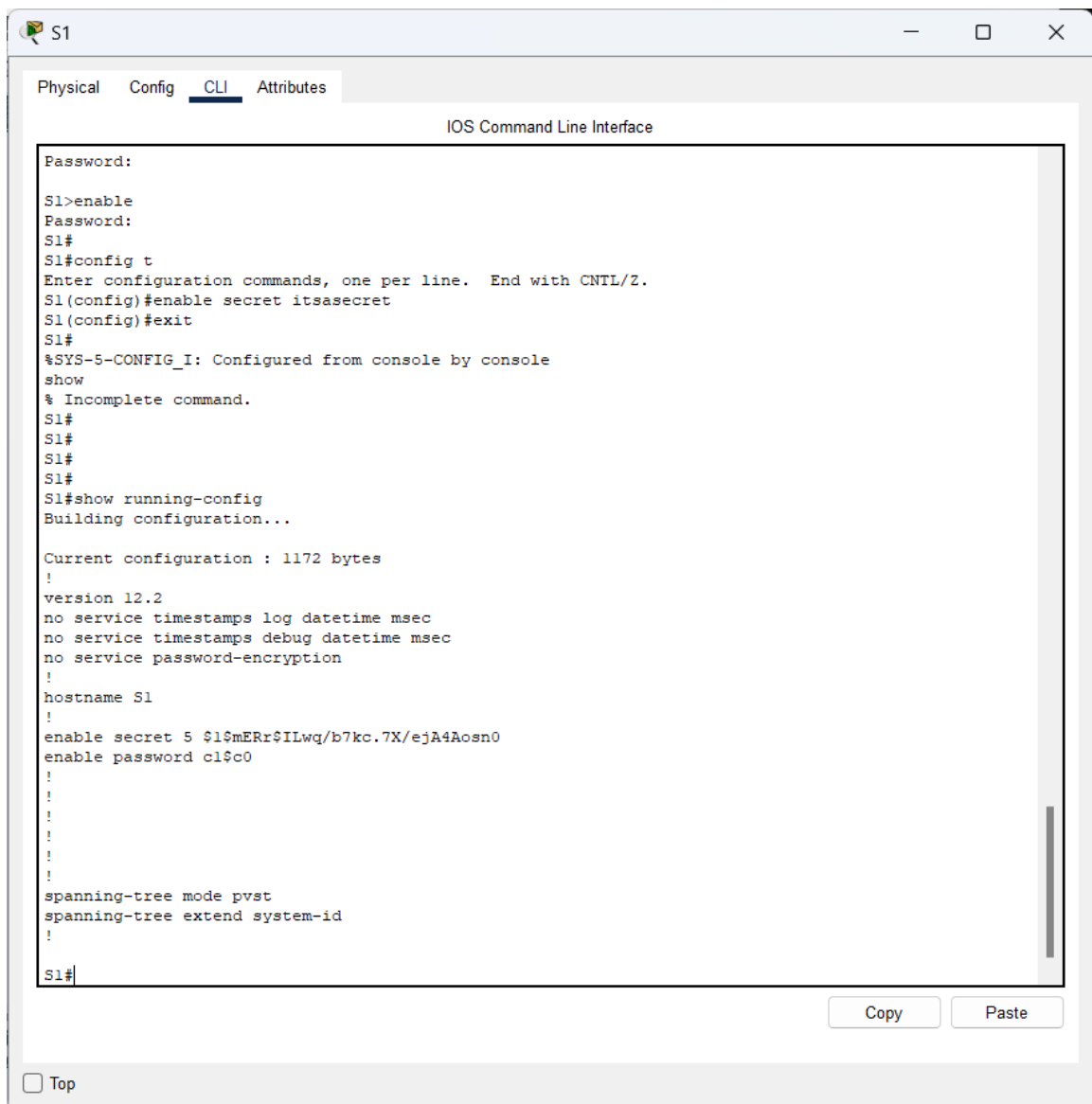
- Nhập c1\$c0



- Để nâng cao tính bảo mật cho việc truy cập vào chế độ privileged, ta dùng mật khẩu là "**itsasecret**"



- Kiểm tra cấu hình thiết bị



```

S1
Physical Config CLI Attributes
IOS Command Line Interface

Password:
S1>enable
Password:
S1#
S1#config t
Enter configuration commands, one per line. End with CNTL/Z.
S1(config)#enable secret itsasecret
S1(config)#exit
S1#
%SYS-5-CONFIG_I: Configured from console by console
show
% Incomplete command.
S1#
S1#
S1#
S1#
S1#show running-config
Building configuration...

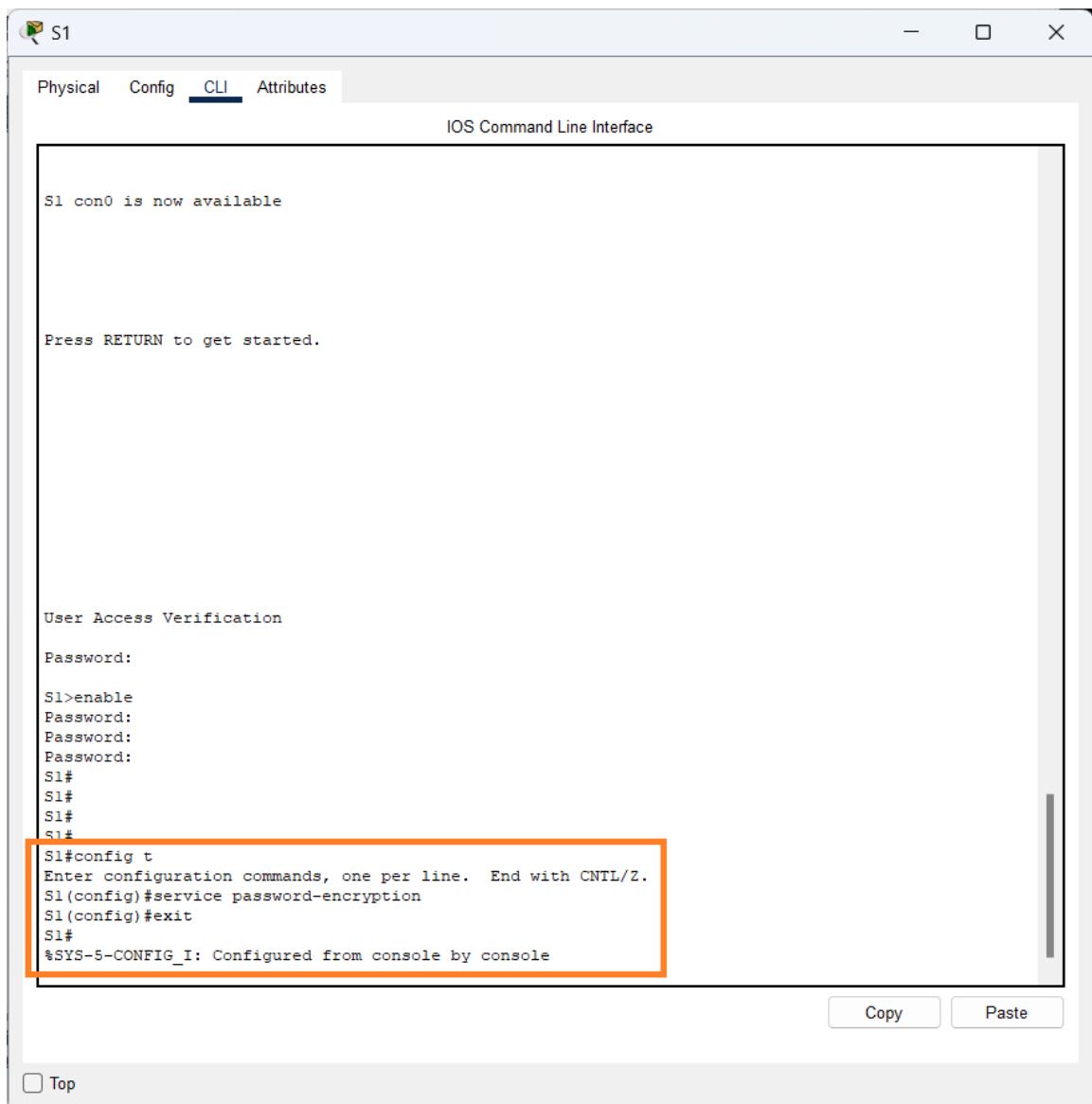
Current configuration : 1172 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname S1
!
enable secret 5 $1$mERr$ILWq/b7kc.7X/ejA4Aosn0
enable password cl$c0
!
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
S1#

```

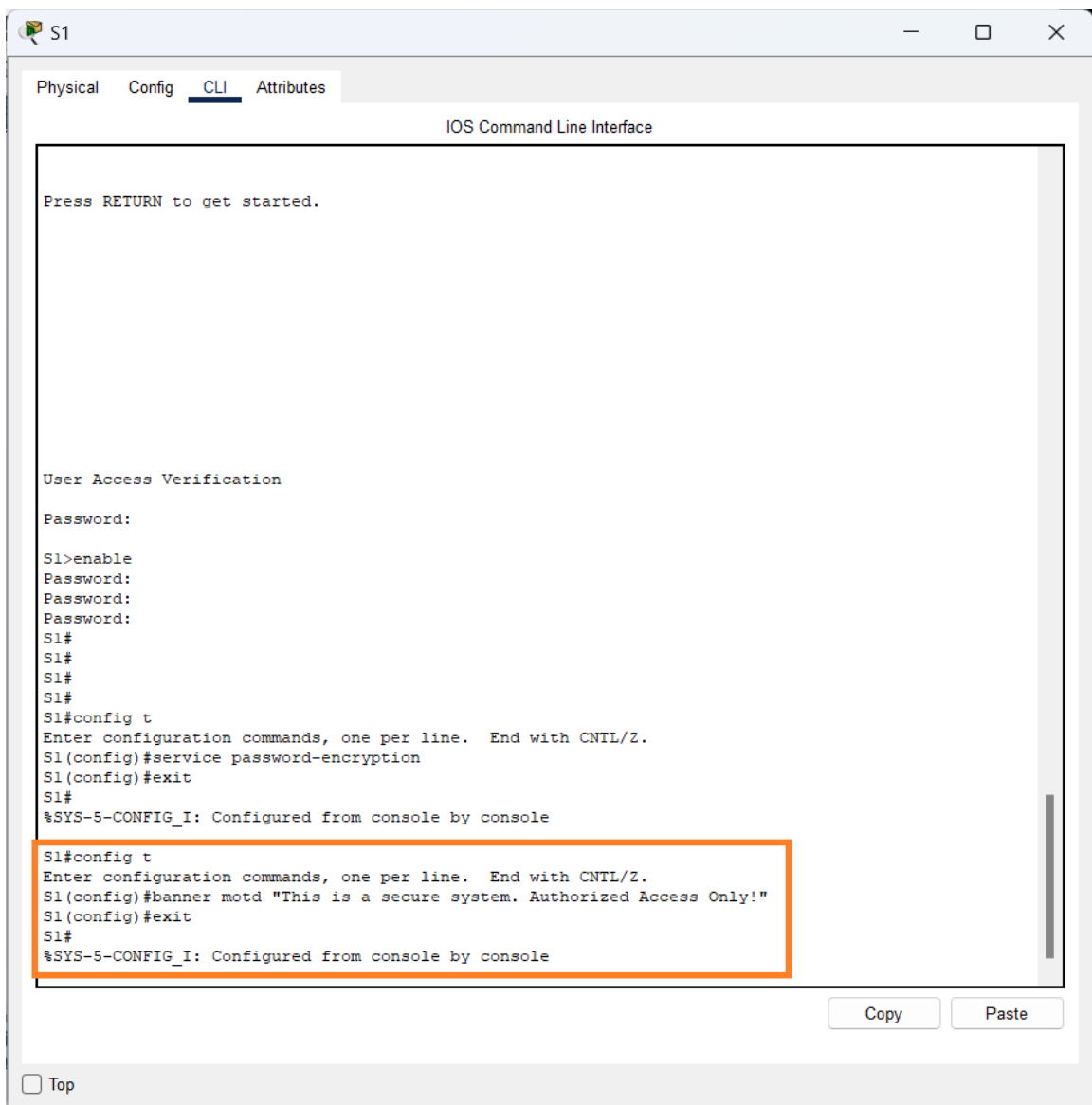
Copy Paste

☐ Top

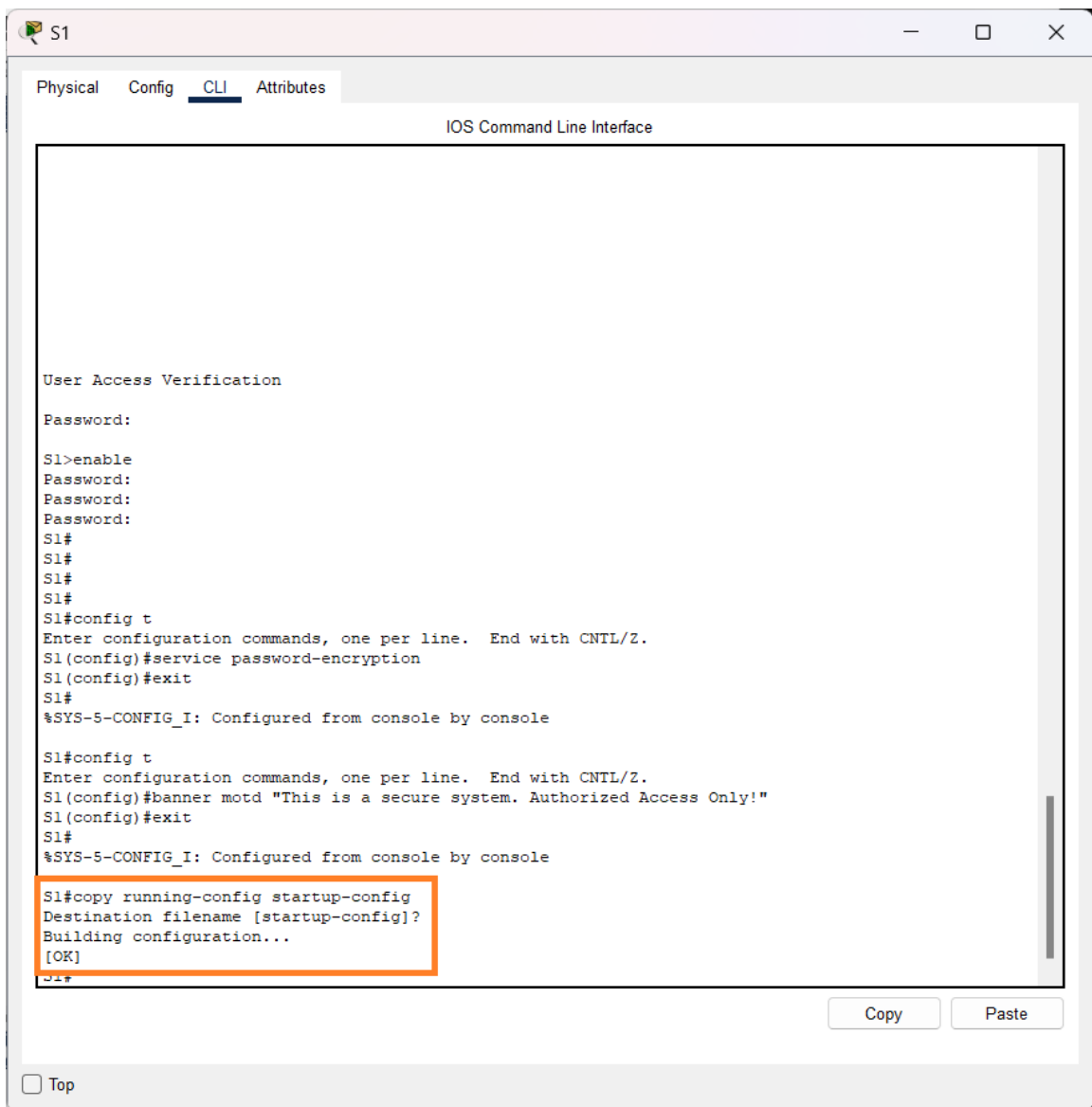
- Mã hóa tất cả các password chưa được mã hóa



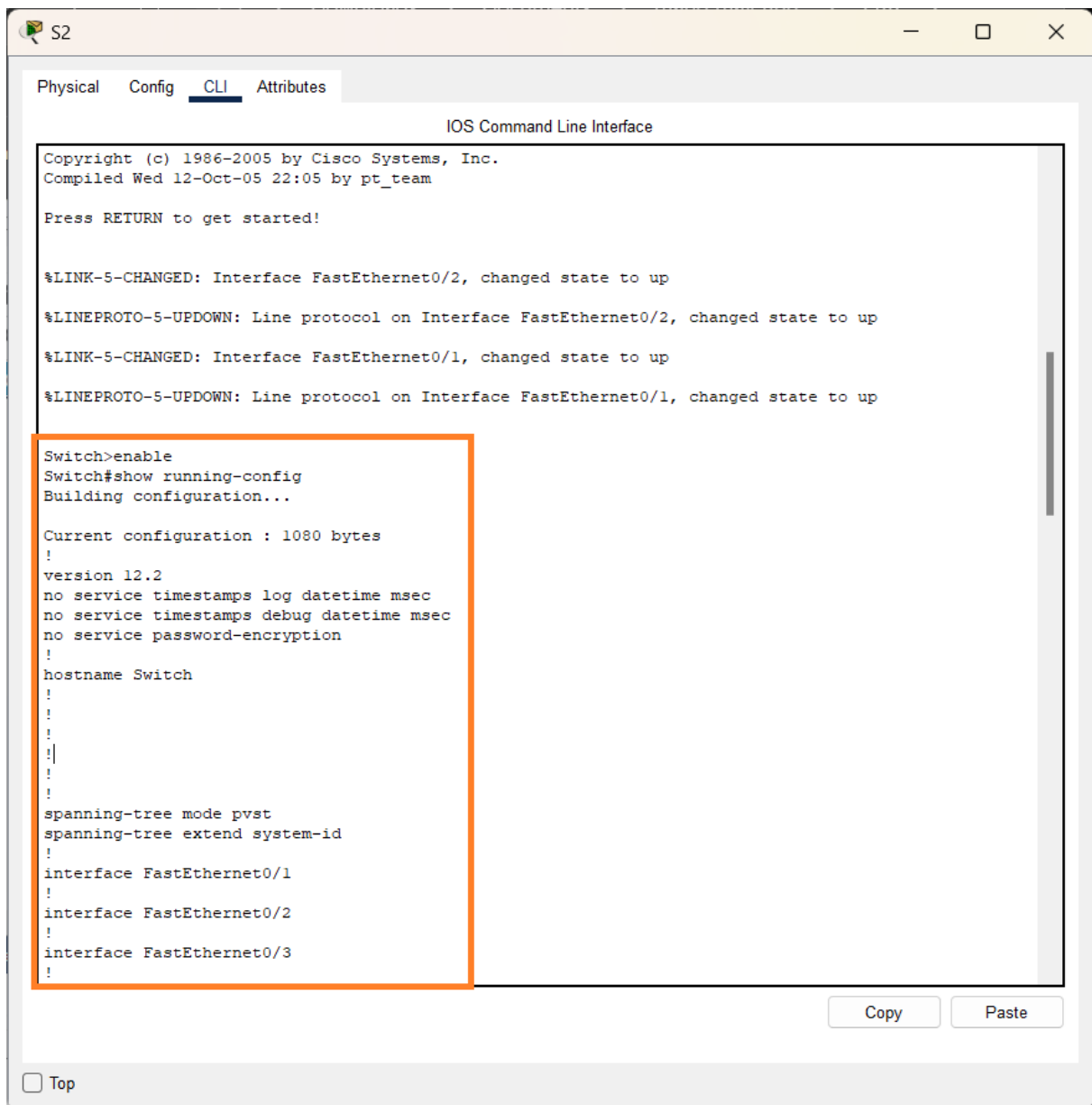
- Cấu hình banner MOTD để xuất thông báo khi người dùng đăng nhập vào thiết bị



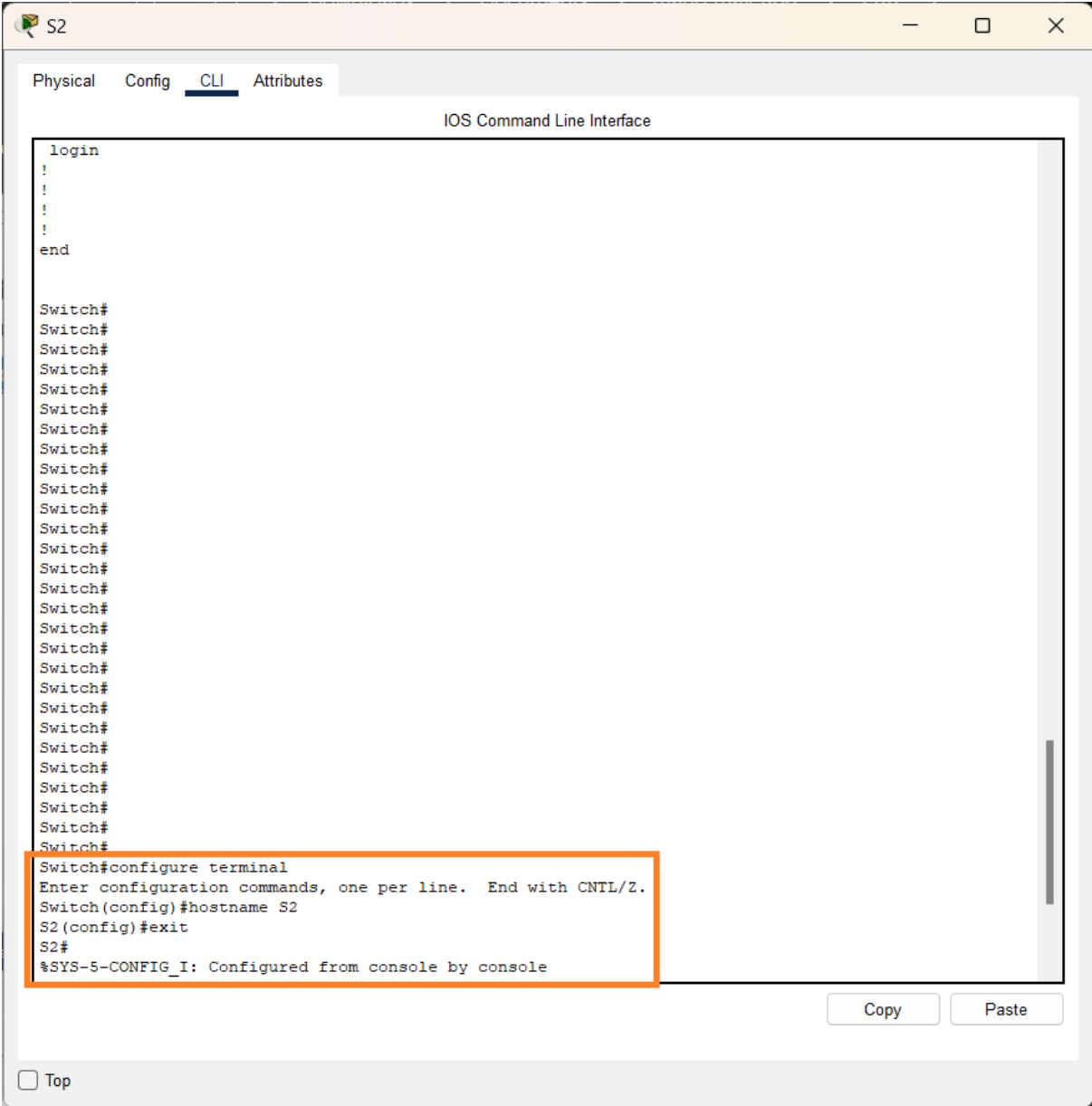
- Lưu cấu hình



**Cấu hình S2 tương tự với S1**

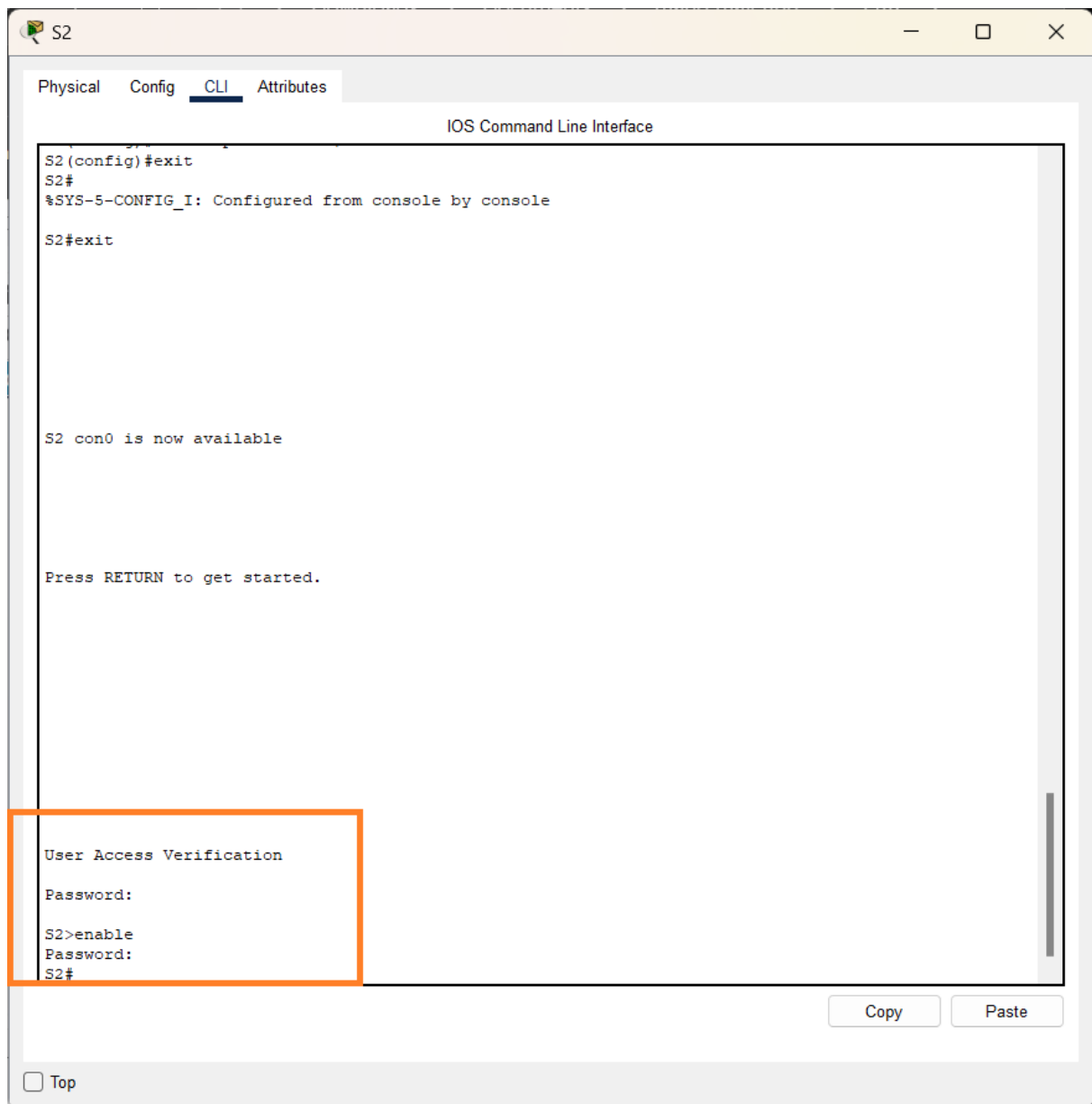


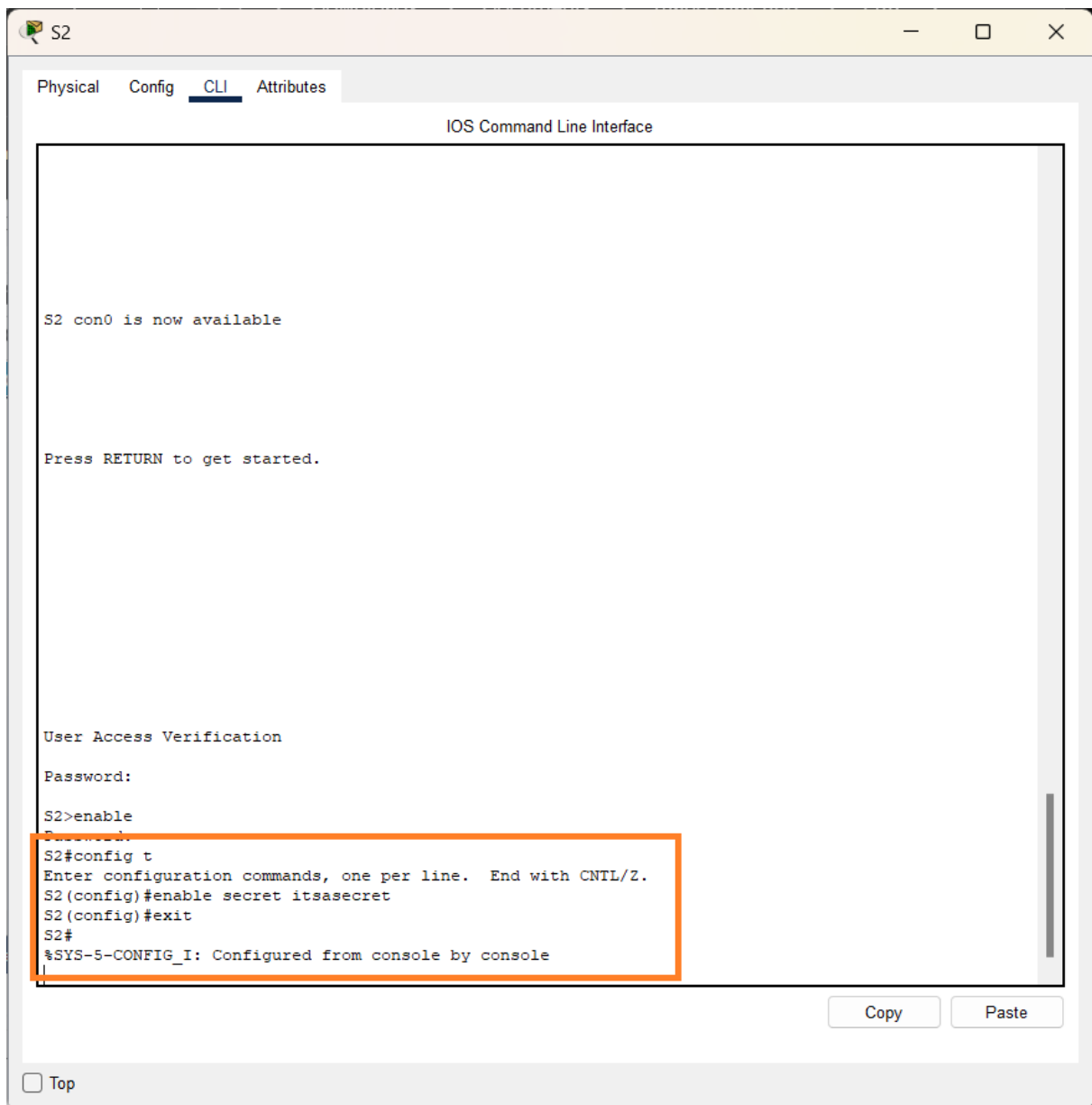












S2

PhysicalConfigCLIAttributes

IOS Command Line Interface

User Access Verification  
Password:  
S2>enable  
Password:  
S2#config t  
Enter configuration commands, one per line. End with CNTL/Z.  
S2(config)#enable secret itsasecret  
S2(config)#exit  
S2#  
%SYS-5-CONFIG\_I: Configured from console by console  
show  
% Incomplete command.  
S2#show running-config  
Building configuration...  
  
Current configuration : 1172 bytes  
!  
version 12.2  
no service timestamps log datetime msec  
no service timestamps debug datetime msec  
no service password-encryption  
!  
hostname S2  
!  
enable secret 5 \$1\$mERr\$ILwq/b7kc.7X/ejA4Aosn0  
enable password cl\$c0  
!  
!  
!  
!  
!  
spanning-tree mode pvst  
spanning-tree extend system-id  
!  
--More--

CopyPaste

☐ Top

S2

PhysicalConfigCLIAttributes

IOS Command Line Interface

```
S2>enable
Password:
S2#config t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#enable secret itsasecret
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console
show
% Incomplete command.
S2#show running-config
Building configuration...

Current configuration : 1172 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname S2
!
enable secret 5 $1$mERr$ILwq/b7kc.7X/ejA4Aosn0
enable password cl$c0
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1

S2#config t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#service password-encryption
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console
```

CopyPaste

☐ Top

S2

Physical Config CLI Attributes

IOS Command Line Interface

```
%SYS-5-CONFIG_I: Configured from console by console
show
% Incomplete command.
S2#show running-config
Building configuration...

Current configuration : 1172 bytes
!
version 12.2
no service timestamps log datetime msec
no service timestamps debug datetime msec
no service password-encryption
!
hostname S2
!
enable secret 5 $1$mERr$ILwq/b7kc.7X/ejA4Aosn0
enable password cl$c0
!
!
!
!
!
spanning-tree mode pvst
spanning-tree extend system-id
!
interface FastEthernet0/1

S2#config t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#service password-encryption
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console

S2#config t
Enter configuration commands, one per line. End with CNTL/Z.
S2(config)#banner motd "This is a secure system. Authorized Access Only!"
S2(config)#exit
S2#
%SYS-5-CONFIG_I: Configured from console by console
```

Copy Paste

☐ Top



