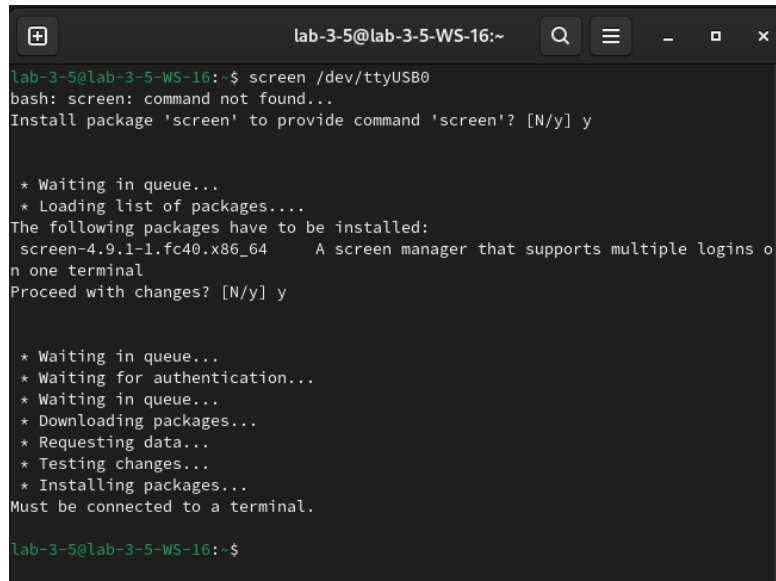


# Configuración de Switch 2960

Primero, conectar el switch y acceder a la configuración del mismo



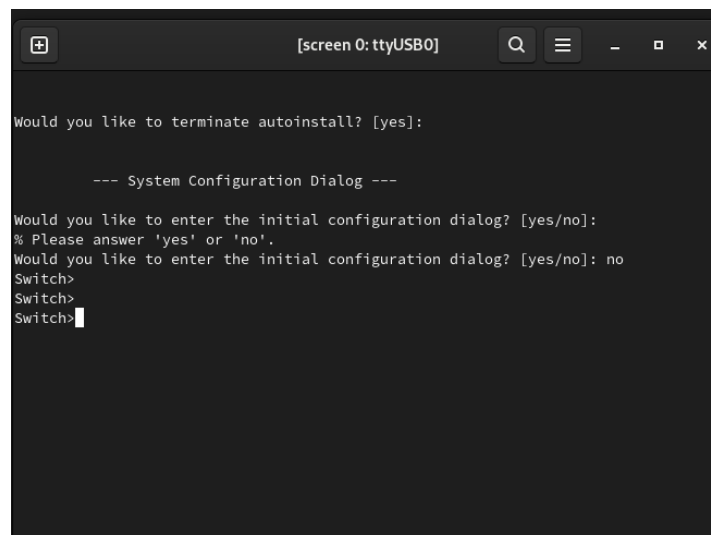
```
lab-3-5@lab-3-5-WS-16:~$ screen /dev/ttyUSB0
bash: screen: command not found...
Install package 'screen' to provide command 'screen'? [N/y] y

* Waiting in queue...
* Loading list of packages...
The following packages have to be installed:
screen-4.9.1-1.fc40.x86_64    A screen manager that supports multiple logins o
n one terminal
Proceed with changes? [N/y] y

* Waiting in queue...
* Waiting for authentication...
* Waiting in queue...
* Downloading packages...
* Requesting data...
* Testing changes...
* Installing packages...
Must be connected to a terminal.

lab-3-5@lab-3-5-WS-16:~$
```

Luego hay que escribir: “sudo screen (puerto)”



```
[screen 0: ttyUSB0]

Would you like to terminate autoinstall? [yes]:

--- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]: no
Switch>
Switch>
Switch>
```

Listo, accedimos!

Ahora, seguir el tutorial estudiado

“show running-config”

```
[screen 0: ttyUSB0]

Would you like to terminate autoinstall? [yes]:

    --- System Configuration Dialog ---

Would you like to enter the initial configuration dialog? [yes/no]:
% Please answer 'yes' or 'no'.
Would you like to enter the initial configuration dialog? [yes/no]: no
Switch>
Switch>
Switch>enable
Switch#show running-config
Building configuration...

Current configuration : 1198 bytes
!
version 12.2
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname Switch
!
!
no aaa new-model
system mtu routing 1500
ip subnet-zero
!
!
!
no file verify auto
spanning-tree mode pvst
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
interface FastEthernet0/1
!
interface FastEthernet0/2
!
interface FastEthernet0/3
!
interface FastEthernet0/4
!

Switch#[B
% Unknown command or computer name, or unable to find computer address
Switch#
Switch#
Switch#
Switch#
```

# Asignar nombre al switch

Switch# configure terminal

```
Switch#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#
```

Switch(config)# hostname ci0123

```
Enter configuration commands, one per line.  End with CNTL/Z.
Switch(config)#hostname ci0123
ci0123(config)#
```

ci0123(config)# exit

## Proporcionar acceso seguro a la consola

ci0123# configure terminal

ci0123(config)# line console 0

ci0123(config-line)# password n0t13n3!

ci0123(config-line)# login

ci0123(config-line)# exit

ci0123(config)# exit

```
00:16:25: %SYS-5-CONFIG_I: Configured from console by console
ci0123#<configure terminal
      ^
% Invalid input detected at '^' marker.

ci0123#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
ci0123(config)#line console 0
ci0123(config-line)#password n0t13n3!
ci0123(config-line)#login
ci0123(config-line)#exit
ci0123(config)#exit
ci0123#
```

# Proporcionar acceso seguro al modo privilegiado

```
ci0123> enable
```

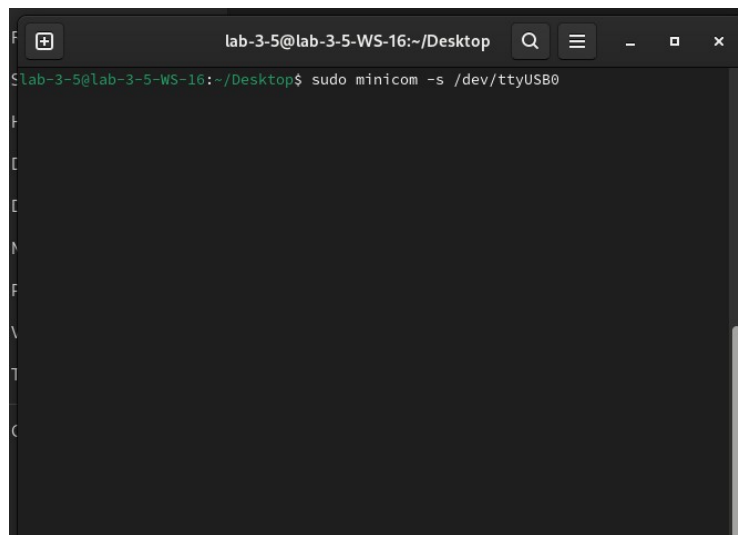
```
ci0123# configure terminal
```

```
ci0123(config)# enable password c1$c0
```

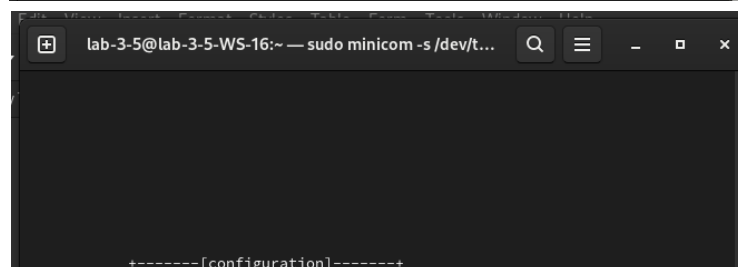
```
ci0123(config)# exit
```

```
ci0123#
```

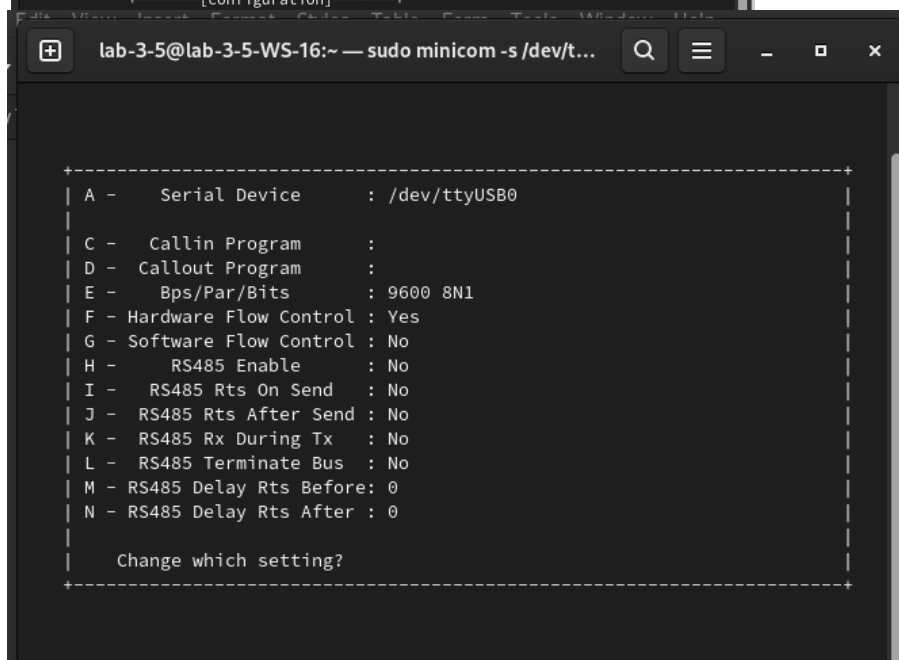
Como se me salió de todo, tuve que volver a entrar, ahora tuve que usar minicom



```
lab-3-5@lab-3-5-WS-16:~/Desktop$ sudo minicom -s /dev/ttyUSB0
```

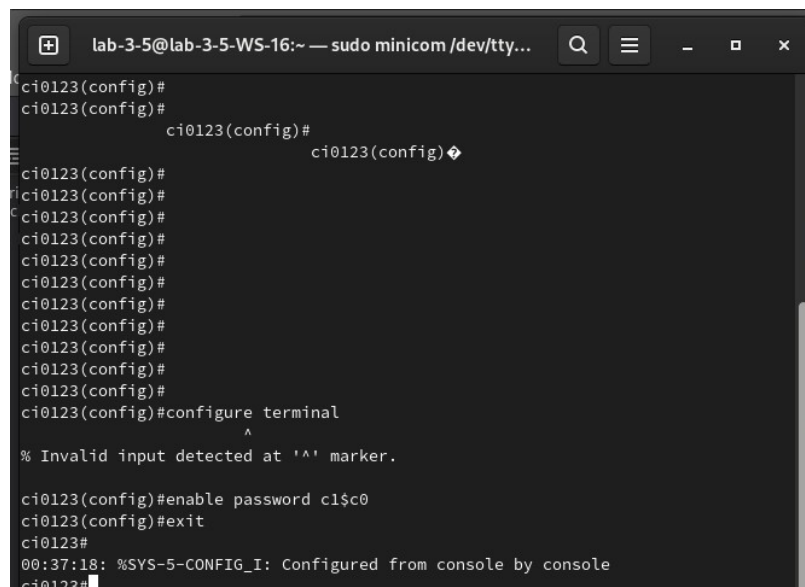


```
lab-3-5@lab-3-5-WS-16:~ — sudo minicom -s /dev/t...  
  
+-----[configuration]-----+
```



```
lab-3-5@lab-3-5-WS-16:~ — sudo minicom -s /dev/t...  
  
+-----+  
| A -   Serial Device       : /dev/ttyUSB0  
|  
| C -   Callin Program      :  
| D -   Callout Program     :  
| E -   Bps/Par/Bits        : 9600 8N1  
| F -   Hardware Flow Control : Yes  
| G -   Software Flow Control : No  
| H -   RS485 Enable        : No  
| I -   RS485 Rts On Send   : No  
| J -   RS485 Rts After Send : No  
| K -   RS485 Rx During Tx  : No  
| L -   RS485 Terminate Bus  : No  
| M -   RS485 Delay Rts Before: 0  
| N -   RS485 Delay Rts After : 0  
|  
|       Change which setting?  
+-----+
```

Configurado!

A terminal window titled 'lab-3-5@lab-3-5-WS-16:~ — sudo minicom /dev/tty...' showing a series of configuration commands and their outputs. The user enters 'ci0123(config)#' multiple times. Then they enter 'ci0123(config)#configure terminal', which results in an error message: '% Invalid input detected at '^' marker.' followed by '^'. Then they enter 'ci0123(config)#enable password c1\$c0', followed by 'ci0123(config)#exit'. The prompt changes to 'ci0123#'. Finally, a system message appears: '00:37:18: %SYS-5-CONFIG\_I: Configured from console by console'.

```
lab-3-5@lab-3-5-WS-16:~ — sudo minicom /dev/tty...
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#configure terminal
ci0123(config)#
^
% Invalid input detected at '^' marker.

ci0123(config)#enable password c1$c0
ci0123(config)#exit
ci0123#
00:37:18: %SYS-5-CONFIG_I: Configured from console by console
ci0123#
```

Listo!

# Configurar una contraseña cifrada para proporcionar acceso seguro al modo privilegiado

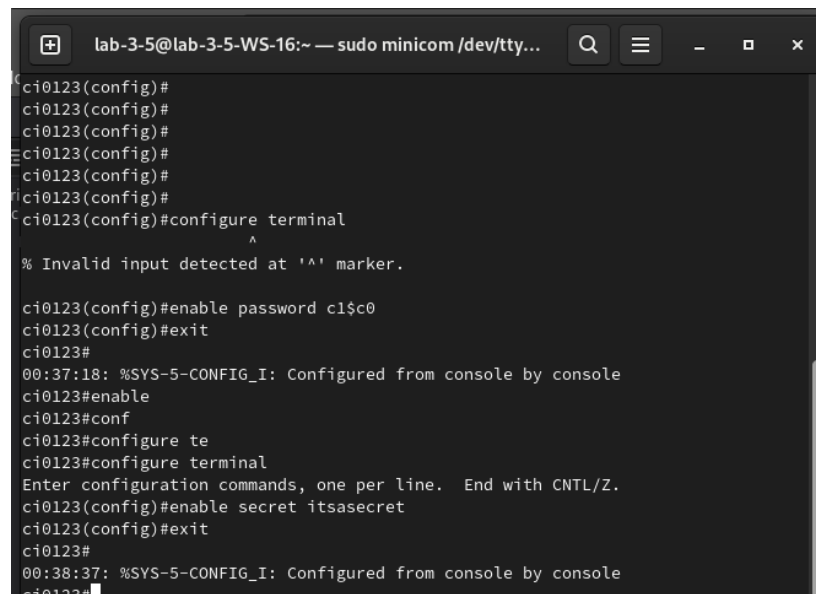
```
ci0123> enable
```

```
ci0123# configure terminal
```

```
ci0123(config)# enable secret itsasecret
```

```
ci0123(config)# exit
```

```
ci0123#
```



```
lab-3-5@lab-3-5-WS-16:~ — sudo minicom /dev/tty...
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#
ci0123(config)#configure terminal
^
% Invalid input detected at '^' marker.

ci0123(config)#enable password c1$c0
ci0123(config)#exit
ci0123#
00:37:18: %SYS-5-CONFIG_I: Configured from console by console
ci0123#enable
ci0123#conf
ci0123#configure te
ci0123#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
ci0123(config)#enable secret itsasecret
ci0123(config)#exit
ci0123#
00:38:37: %SYS-5-CONFIG_I: Configured from console by console
ci0123#
```

## Cifrar las contraseña de consola y enable

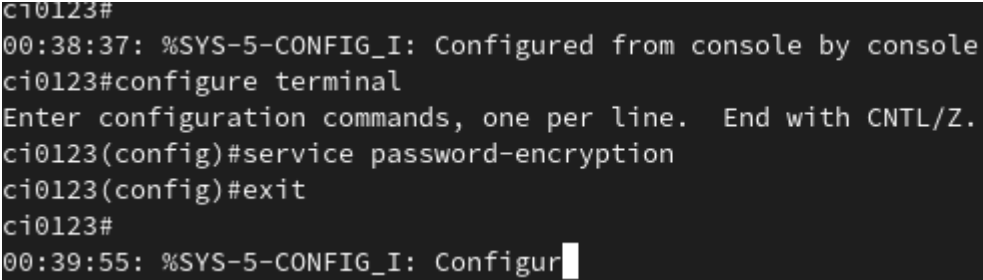
ci0123> enable

ci0123# configure terminal

ci0123(config)# service password-encryption

ci0123(config)# exit

ci0123#

A screenshot of a terminal window with a dark background and light gray text. The text shows the sequence of commands and system messages: 'ci0123#', a timestamped message '%SYS-5-CONFIG\_I: Configured from console by console', 'ci0123#configure terminal', a prompt 'Enter configuration commands, one per line. End with CNTL/Z.', 'ci0123(config)#service password-encryption', 'ci0123(config)#exit', 'ci0123#', and another timestamped message '%SYS-5-CONFIG\_I: Configur' followed by a cursor. A vertical scrollbar is visible on the right side of the terminal window.

```
ci0123#
00:38:37: %SYS-5-CONFIG_I: Configured from console by console
ci0123#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
ci0123(config)#service password-encryption
ci0123(config)#exit
ci0123#
00:39:55: %SYS-5-CONFIG_I: Configur
```



## Configurar mensaje del día MOTD

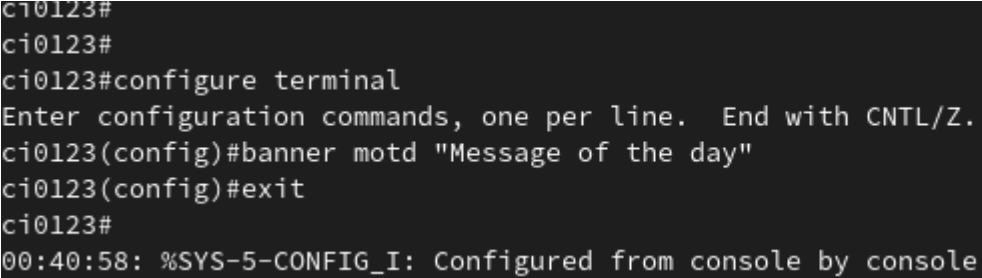
```
ci0123> enable
```

```
ci0123# configure terminal
```

```
ci0123(config)# banner motd "Message of the day"
```

```
ci0123(config)# exit
```

```
ci0123#
```

A screenshot of a terminal window with a dark background and light gray text. The text shows the sequence of commands entered to configure the MOTD message. The prompt changes from user mode to privileged mode, then to configuration mode, and back to user mode. A system message is displayed at the bottom.

```
ci0123#  
ci0123#  
ci0123#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
ci0123(config)#banner motd "Message of the day"  
ci0123(config)#exit  
ci0123#  
00:40:58: %SYS-5-CONFIG_I: Configured from console by console
```

# Guardar los cambios de la configuración en la NVRAM

copy running-config startup-config

```
ci0123#  
ci0123#  
ci0123#  
ci0123#copy running-config startup-config  
Destination filename [startup-config]?  
Building configuration...  
[OK]  
ci0123#
```

## Deshabilitar la búsqueda de nombres de dominio

```
ci0123> enable
```

```
ci0123# configure terminal
```

```
ci0123(config)# no ip domain-lookup
```

```
ci0123(config)# exit
```

```
ci0123#
```

```
[Ctrl-C]  
ci0123#enable  
ci0123#conf  
ci0123#configure ter  
ci0123#configure terminal  
Enter configuration commands, one per line. End with CNTL/Z.  
ci0123(config)#no ip domain-lookup  
ci0123(config)#exit  
ci0123#  
00:44:46: %SYS-5-CONFIG_I: Configured from console by console
```

# Habilitar VTY Line para Acceso vía Telnet

ci0123(config)# line vty 0 15

ci0123(config-line)# login

ci0123(config-line)# password p4ssw0rd

ci0123(config-line)# exec-timeout <cantidad-minutos> <cantidad-segundos>

ci0123(config-line)# exit

```
ci0123#
ci0123#configure terminal
Enter configuration commands, one per line.  End with CNTL/Z.
ci0123(config)#line vty 0 15
ci0123(config-line)#login
% Login disabled on line 1, until 'password' is set
% Login disabled on line 2, until 'password' is set
% Login disabled on line 3, until 'password' is set
% Login disabled on line 4, until 'password' is set
% Login disabled on line 5, until 'password' is set
% Login disabled on line 6, until 'password' is set
% Login disabled on line 7, until 'password' is set
% Login disabled on line 8, until 'password' is set
% Login disabled on line 9, until 'password' is set
% Login disabled on line 10, until 'password' is set
% Login disabled on line 11, until 'password' is set
% Login disabled on line 12, until 'password' is set
% Login disabled on line 13, until 'password' is set
% Login disabled on line 14, until 'password' is set
% Login disabled on line 15, until 'password' is set
% Login disabled on line 16, until 'password' is set
ci0123(config-line)#password p4ssw0rd
ci0123(config-line)#exec-timeout 1 30
ci0123(config-line)#
```

# Configuración Vlan Switchs

ci0123(config) vlan ID # Numero

ci0123(config-vlan) name Name # Texto

ci0123(config-vlan) exit

```
ci0123(config)#vlan ID 520
      ^
% Invalid input detected at '^' marker.

ci0123(config)#vlan ID #520
      ^
% Invalid input detected at '^' marker.

ci0123(config)#vlan ID # 520
      ^
% Invalid input detected at '^' marker.

ci0123(config)#vlan ID 520
      ^
% Invalid input detected at '^' marker.

ci0123(config)#vlan 520
ci0123(config-vlan)#name equipo 2
      ^
% Invalid input detected at '^' marker.

ci0123(config-vlan)#name equipo_2
ci0123(config-vlan)#exit
```

Algunos errores pero todo bien!

## Asociación de Interface con Vlan

```
ci0123(config)# interface fastethernet 0/3
ci0123(config-if)# switchport access vlan 30
ci0123(config-if)# switchport mode access
ci0123(config-if)# switchport port-security
ci0123(config-if)# switchport port-security mac-address sticky
ci0123(config-if)# switchport port-security violation restrict
ci0123(config-if)# switchport port-security maximum 1
ci0123(config-if)# switchport mode access
ci0123(config-if)# exit
```

```
ci0123(config)#
ci0123(config)#interface fastethernet 0/3
ci0123(config-if)#switchport access vlan 30
% Access VLAN does not exist. Creating vlan 30
ci0123(config-if)#switchport port-security
Command rejected: FastEthernet0/3 is a dynamic port.
ci0123(config-if)#switchport mode access
ci0123(config-if)#switchport port-security
ci0123(config-if)#switchport port-security mac-address sticky
ci0123(config-if)#switchport port-security violation restrict
ci0123(config-if)#switchport port-security maximum 1
ci0123(config-if)#switchport mode access
ci0123(config-if)#exit
ci0123(config)#
CTRL-A ? for help | 9600 8N1 | NDB | Minicom 2.8 | VT102 | Offline |
```

```
ci0123#show running-config
Building configuration...

Current configuration : 1681 bytes
!
version 12.2
no service pad
service timestamps debug uptime
service timestamps log uptime
service password-encryption
!
hostname ci0123
!
enable secret 5 $1$8dL2$wblusC3/gP2xNAhT1KI5w/
enable password 7 01105740585B
!
no aaa new-model
system mtu routing 1500
ip subnet-zero
!
no ip domain-lookup
!
!
!
no file verify auto
spanning-tree mode pvst
spanning-tree extend system-id
!
vlan internal allocation policy ascending
!
interface FastEthernet0/1
 switchport mode trunk
!
interface FastEthernet0/2
!
interface FastEthernet0/3
 switchport access vlan 30
 switchport mode access
 switchport port-security
 switchport port-security violation restrict
 switchport port-security mac-address sticky
!
interface FastEthernet0/4
!
interface FastEthernet0/5
!
interface FastEthernet0/6
!
interface FastEthernet0/7
!
interface FastEthernet0/8
!
interface FastEthernet0/9
!
--More--
```