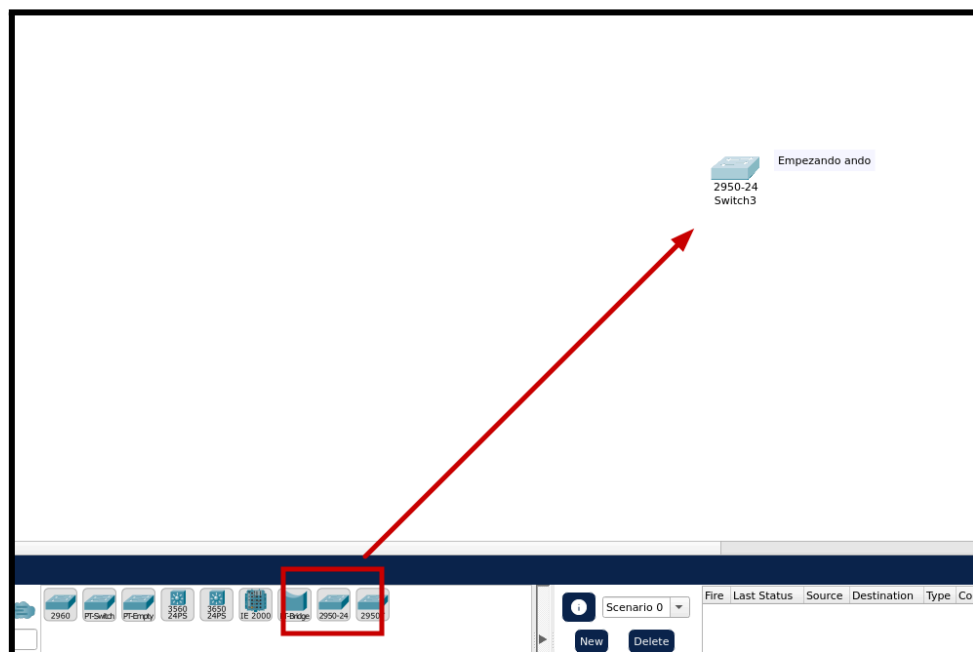


Config Packet Tracer

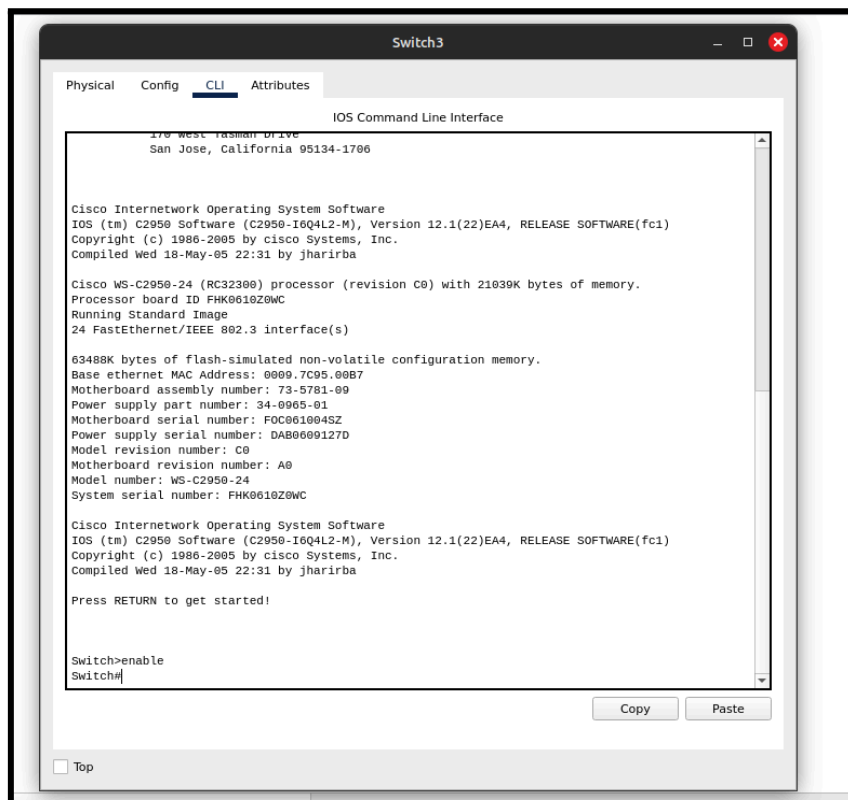
Instalar Packet Tracer

- Trabajar en el protocolo del servicio
- Trabajar en el conmutador 2960 de "Packet Tracer"
 - Instalar "Packet Tracer" en su computadora
 - Cisco genera el instalador para Ubuntu no para Fedora
 - Para las instalaciones de Fedora pueden bajar esta distribución para [Ubuntu](#) o hacerlo directamente de Cisco. También pueden trabajar en Windows.
 - Para completar la instalación en Fedora, deben seguir este [tutorial](#), el clonado del directorio está [acá](#)
 - Completar la configuración básica de un switch 2950, siguiendo este [instructivo](#) o cualquier otro que considere conveniente
- Trabajar en los programas de simulación

Arrastrar Switch 2950-24



Click al switch y darle enable



Ejecutar "show running-config"

```
Switch#show running-config  
Building configuration...  
  
Current configuration : 1018 bytes  
!  
version 12.1  
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  
!  
interface FastEthernet0/3  
!  
interface FastEthernet0/4  
!  
interface FastEthernet0/5  
!  
interface FastEthernet0/6  
!  
interface FastEthernet0/7  
--More--
```

Asignar un nuevo nombre al switch

```
Switch>enable
Switch#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Switch(config)#hostname ci0123
ci0123(config)#exit
ci0123#
%SYS-5-CONFIG_I: Configured from console by console
```

Copy Paste

Proporcionar acceso seguro a la consola

```
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#
%SYS-5-CONFIG_I: Configured from console by console
```

Proporcionar acceso seguro al modo privilegiado

```
%SYS-5-CONFIG_I: Configured from console by console

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

Configurar una contraseña cifrada para proporcionar acceso seguro al modo privilegiado

```
ci0123#enable
ci0123#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
ci0123(config)#enable secret itsasecret
ci0123(config)#exit
ci0123#
%SYS-5-CONFIG_I: Configured from console by console
```

Cifrar las contraseña de consola y enable

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

Configurar mensaje del día MOTD

```
ci0123#enable
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#
%SYS-5-CONFIG_I: Configured from console by console
```

Guardar los cambios de la configuración en la NVRAM

nota: habia error en el comando

Se ejecuta "copy running-config startup-config"

```
ci0123#enable
ci0123#copy running-configuration starup-configuration
^
% Invalid input detected at '^' marker.

ci0123#copy running-configuration startup-configuration
^
% Invalid input detected at '^' marker.

ci0123#ci0123#copy running-config startup-config
^
% Invalid input detected at '^' marker.

ci0123#ci0123#copy running-config startup-config
^
% Invalid input detected at '^' marker.

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
Enter configuration commands, one per line. End with CNTL/Z.
ci0123(config)#no ip domain-lookup
ci0123(config)#exit
ci0123#
%SYS-5-CONFIG_I: Configured from console by console
ci0123#
```

Habilitar VTY Line para Acceso vía Telnet

nota: recordar entrar en modo terminal

```
ci0123#line vty 0 15
^
% Invalid input detected at '^' marker.

ci0123#con
ci0123#conf
ci0123#configure ter
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 45
ci0123(config-line)#exit
ci0123(config)#
```

Configuración Vlan Switchs

nota: vlan 520

name equipo_2

```
% Invalid input detected at '^' marker.

ci0123(config)#conf
ci0123(config)#config
ci0123(config)#configu
ci0123(config)#confi
ci0123(config)#exit
ci0123#
%SYS-5-CONFIG_I: Configured from console by console

ci0123#confi
ci0123#configure ter
ci0123#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
ci0123(config)#vlan 520
ci0123(config-vlan)#name Equipo 2
                                     ^
% Invalid input detected at '^' marker.

ci0123(config-vlan)#name Equipo?
WORD
ci0123(config-vlan)#name Equipo_2
ci0123(config-vlan)#exit
ci0123(config)#
```

Asociación de Interface con Vlan

nota: recordar entrar en modo conf terminal

tuve que cambiar el modo de acceso "switchport mode access"

```
ci0123#interface fastethernet 0/3
                                     ^
% Invalid input detected at '^' marker.

ci0123#confi
ci0123#configure ter
ci0123#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
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)#
```

Configuración de modo troncal para interfaces que están conectadas entre switches y routers

```
ci0123(config-if)#exit
ci0123(config)#interface fastethernet 0/1
ci0123(config-if)#switchport mode trunk
ci0123(config-if)#exit
ci0123(config)#
```

Encapsulación de vlan en una sub interfaz en el router

nota: - para esto necesitamos agregar un router a la red, en este caso usé un 1841

- igual que en el switch hay que darle enable y conf terminal



```
% Invalid input detected at '^' marker.

Router>conf
Router>conf
Router>enable
Router#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#interface fastethernet 0/0.10
Router(config-subif)#encapsulation dot1q 10
Router(config-subif)#ip address 172.16.10.1 255.255.255.0
Router(config-subif)#exit
Router(config)#
```