

Instituto Tecnológico de Salina Cruz

Fundamentos de Redes

Semestre Enero – Julio 2015

Reporte de Practica

Practica nº 2

Unidad 3

Nombre: Jesus Alberto Alvarez Camera

Fecha: 11 de mayo del 2015

Objetivo:

Conocer los comandos básicos de un router Cisco.

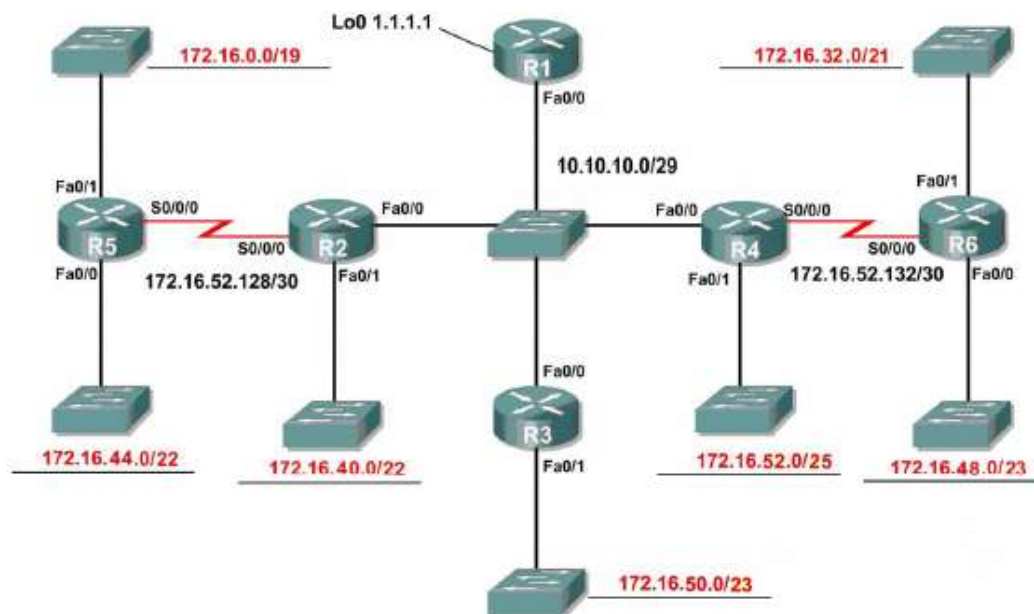
Instrucciones:

En la siguiente práctica se conocerá los comandos básicos de un router Cisco, empleando el simulador Packet Tracer, ya que ésta es una herramienta que permite el diseño, la construcción y la configuración directa de diversos dispositivos de una red. Aquí se levantarán los seriales y los puertos fastethernet de cada uno de los Routers para lograr una comunicación entre ellos.

Materiales:

Programa de simulacion Packet Tracer

Diagrama de topología



Dispositivo	Interfaz	Dirección IP	Mascara de subred	Gateway
Jesus	Fa0/0	10.10.10.1	255.0.0.0	No aplicable
alberto	Fa0/0	10.10.10.2	255.0.0.0	No aplicable
	fa1/0	172.16.40.1	255.255.0.0	
	Sa2/0	192.16.52.128	255.255.0.0	
alvarez	Fa0/0	10.10.10.10.3	255.0.0.0	No aplicable
	Fa1/0	172.16.50.1	255.255.0.0	
camera	Fa0/0	10.10.10.4	255.0.0.0	No aplicable
	Fa1/0	172.16.52.1	255.255.0.0	
	S2/0	192.16.52.1	255.255.0.0	
pumas	Fa0/0	172.16.44.1	255.255.0.0	No aplicable
	Fa1/0	192.16.0.1	255.255.0.0	
	S2/0	172.168.52.129	255.255.0.0	
corazon	Fa0/0	172.16.48.1	255.255.0.0	No aplicable
	Fa1/0	192.16.32.1	255.255.0.0	
	S0/0	192.16.52.2	255.255.0.0	
PC1	No aplicable	172.16.0.10	255.255.0.0	172.16.0.1
PC2	No aplicable	172.16.0.11	255.255.0.0	172.16.0.1
PC3	No aplicable	172.16.44.10	255.255.0.0	172.16.44.1
PC4	No aplicable	172.16.44.11	255.255.0.0	172.16.44.1
PC5	No aplicable	172.16.40.10	255.255.0.0	172.16.40.1
PC6	No aplicable	172.16.40.11	255.255.0.0	172.16.40.1
PC7	No aplicable	172.16.50.10	255.255.0.0	172.16.50.1

PC8	No aplicable	172.16.50.11	255.255.0.0	172.16.50.1
PC9	No aplicable	172.16.52.10	255.255.0.0	172.16.52.1
PC10	No aplicable	172.16.52.11	255.255.0.0	172.16.52.1
PC11	No aplicable	172.16.48.10	255.255.0.0	172.16.48.1
PC12	No aplicable	172.16.48.11	255.255.0.0	172.16.48.1
PC13	No aplicable	172.16.32.10	255.255.0.0	172.16.32.1
PC14	No aplicable	172.16.32.11	255.255.0.0	172.16.32.1

A continuación se procede a realizar la configuración inicial para cada una de nuestras PC'S, comenzaremos por la dirección IP y la máscara de subred, solo se muestran como ejemplo la asignación de estos componentes a dos pc's se requiere seguir con la misma configuración para las demás.

PC1

IP Configuration

IP Configuration
 DHCP Static

IP Address: 172.16.0.10
Subnet Mask: 255.255.0.0
Default Gateway: 172.16.0.1
DNS Server:

IPv6 Configuration
 DHCP Auto Config Static

IPv6 Address: /
Link Local Address: FE80::2E0:BFFF:FEC6:8BD1
IPv6 Gateway:
IPv6 DNS Server:

Web Browser
Cisco IP Communicator

PC2

IP Configuration

IP Configuration
 DHCP Static

IP Address: 172.16.0.11
Subnet Mask: 255.255.0.0
Default Gateway: 172.16.0.1
DNS Server:

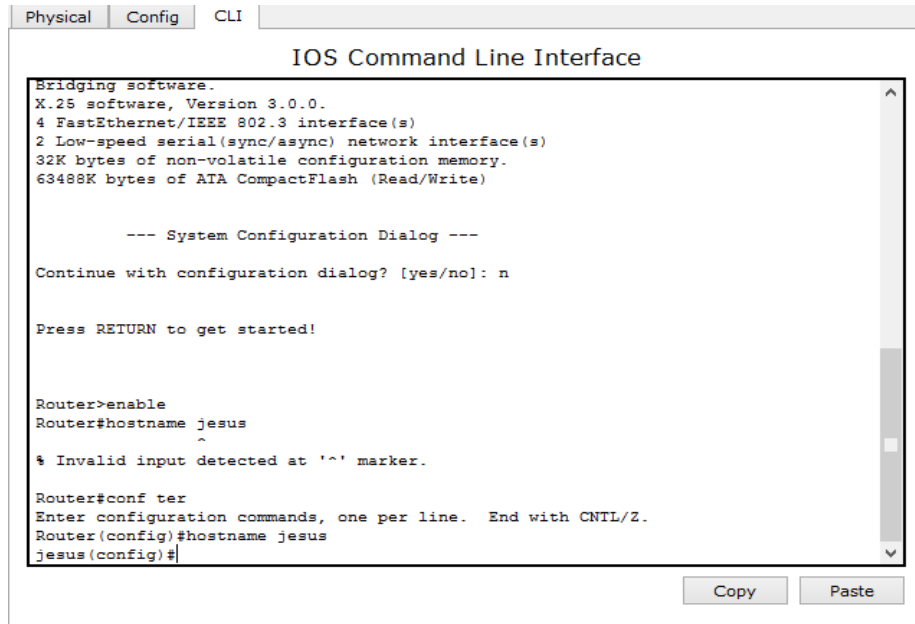
IPv6 Configuration
 DHCP Auto Config Static

IPv6 Address: /
Link Local Address: FE80::2E0:A3FF:FE82:9006
IPv6 Gateway:
IPv6 DNS Server:

Web Browser
Cisco IP Communicator

A continuación se procede a realizar las configuraciones iniciales de nuestros Routers así como es el cambio de nombre, una contraseña y un banner.

jesus



```
Physical Config CLI
IOS Command Line Interface
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n

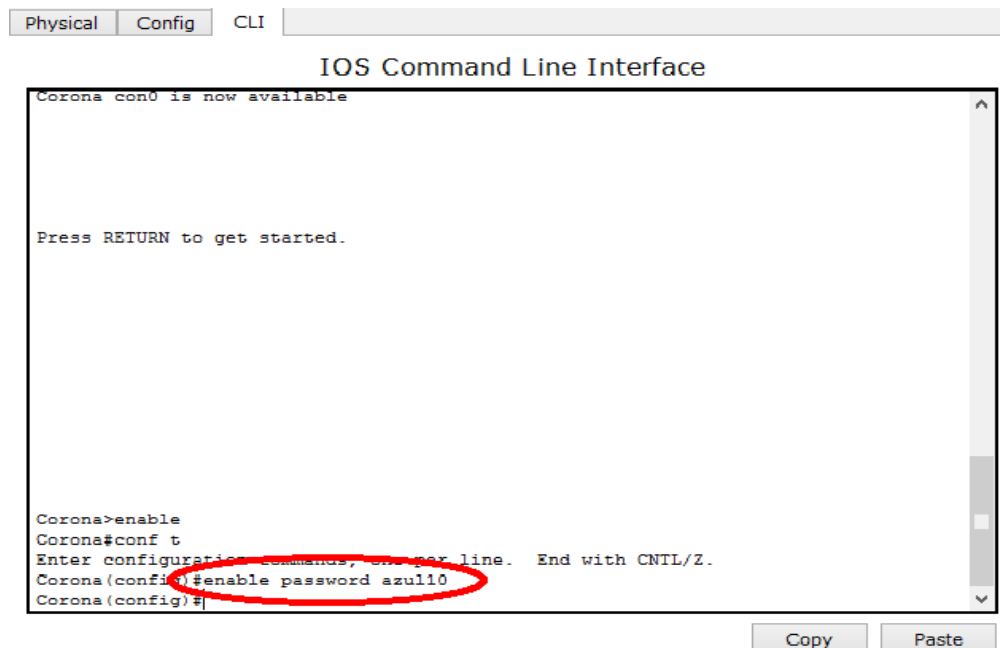
Press RETURN to get started!

Router>enable
Router#hostname jesus
^
% Invalid input detected at '^' marker.

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

Copy Paste

Asignación de password.



```
Physical Config CLI
IOS Command Line Interface
Corona con0 is now available

Press RETURN to get started.

Corona>enable
Corona#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Corona(config)#enable password azul10
Corona(config)#
```

Copy Paste

A continuación se le asigna un banner al router,



```
Physical Config CLI
IOS Command Line Interface

--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n

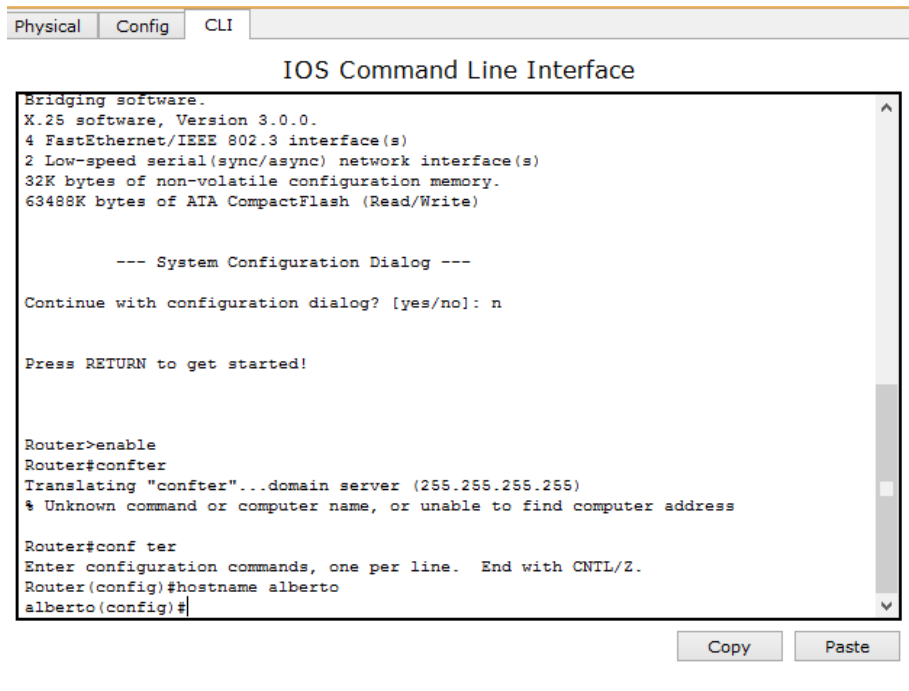
Press RETURN to get started!

Router>enable
Router#hostname jesus
Router#
% Invalid input detected at '^' marker.

Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname jesus
jesus(config)#banner motd
% Incomplete command.
jesus(config)#banner motd #jesus alberto alvarez redes de computadores#
jesus#
SYS-5-CONFIG_I: Configured from console by console
^Z
jesus#
```

Alberto

De igual forma se le asigna un nombre al router.



```
Physical Config CLI
IOS Command Line Interface

Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

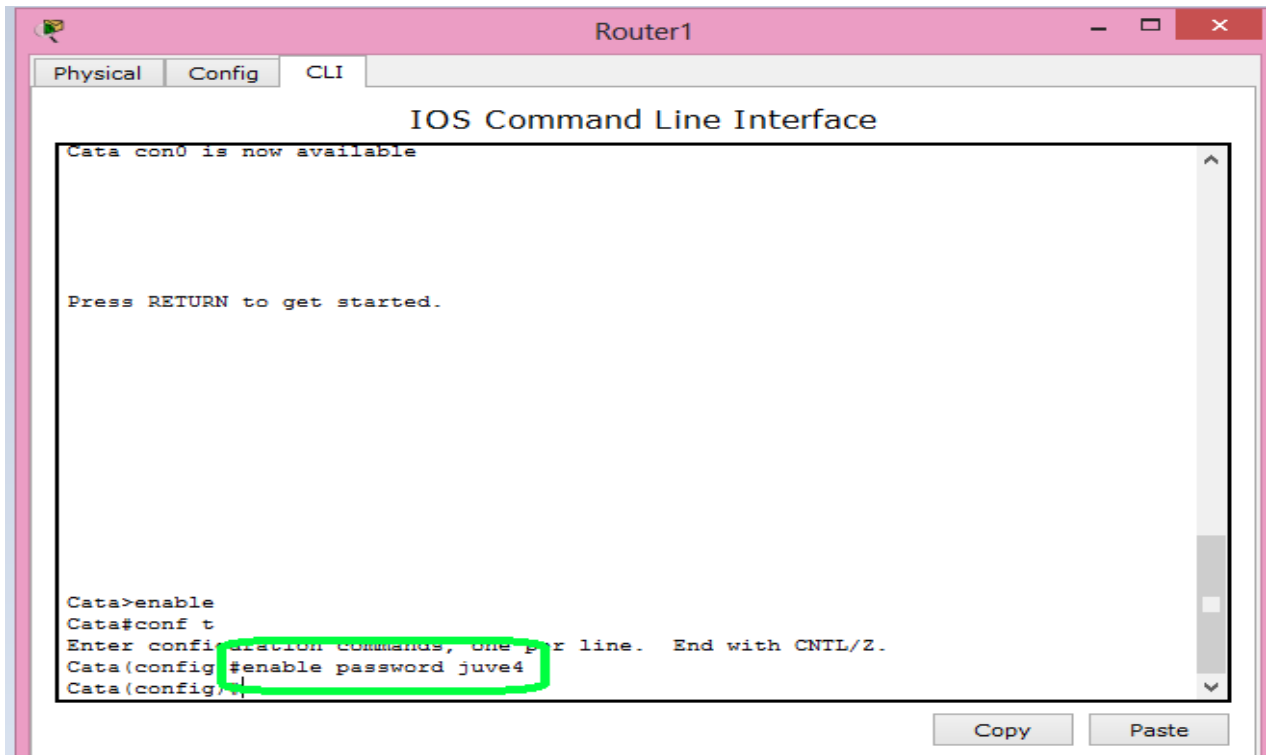
--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n

Press RETURN to get started!

Router>enable
Router#conf t
Translating "conf t"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname alberto
alberto(config)#
```

A continuación se le asigna una contraseña.



The screenshot shows a window titled "Router1" with tabs for "Physical", "Config", and "CLI". The main area is titled "IOS Command Line Interface". The text inside the window is as follows:

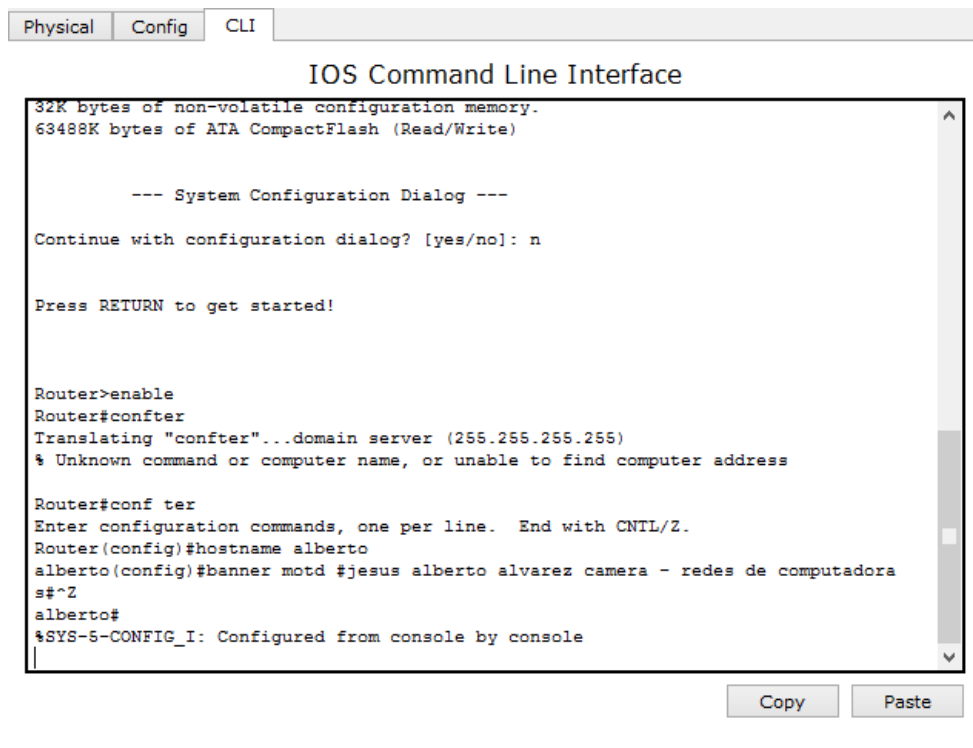
```
Cata con0 is now available

Press RETURN to get started.

Cata>enable
Cata#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Cata(config)#enable password juve4
Cata(config)#
```

At the bottom right of the window, there are "Copy" and "Paste" buttons.

Después es necesario concederle un banner.



The screenshot shows a window titled "Router1" with tabs for "Physical", "Config", and "CLI". The main area is titled "IOS Command Line Interface". The text inside the window is as follows:

```
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

--- System Configuration Dialog ---

Continue with configuration dialog? [yes/no]: n

Press RETURN to get started!

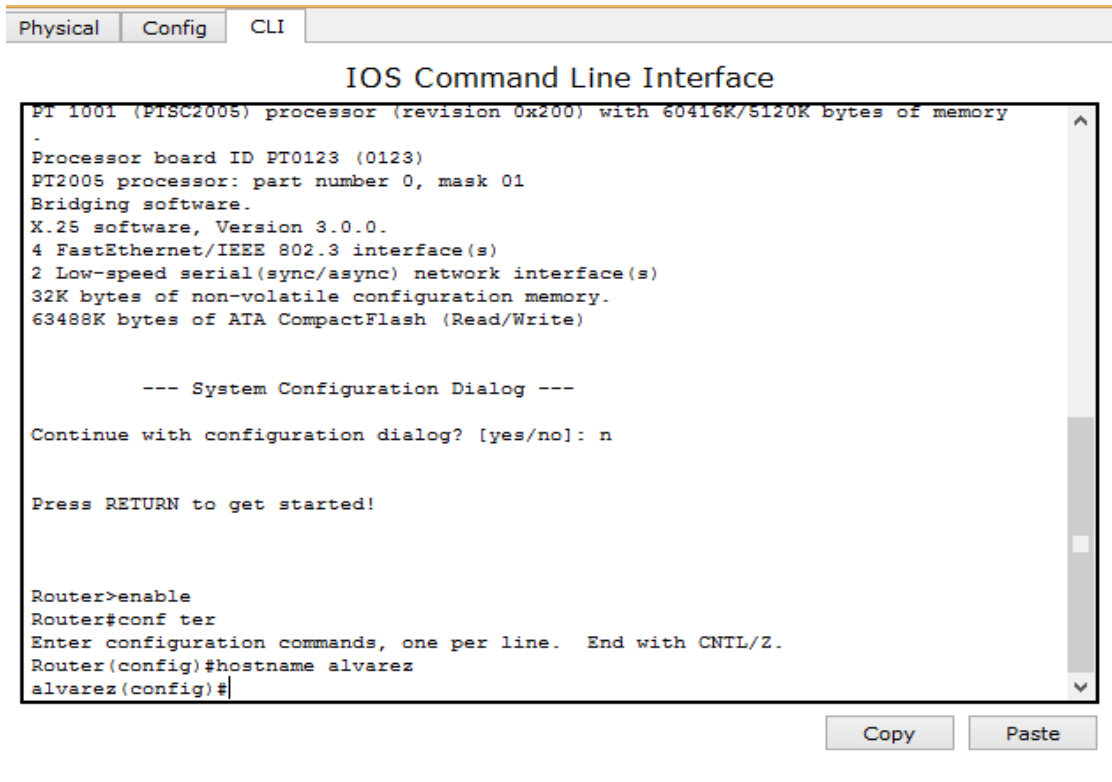
Router>enable
Router#conf ter
Translating "conf ter"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Router#conf ter
Enter configuration commands, one per line.  End with CNTL/Z.
Router(config)#hostname alberto
alberto(config)#banner motd #jesus alberto alvarez camera - redes de computadora
s#^Z
alberto#
%SYS-5-CONFIG_I: Configured from console by console
```

At the bottom right of the window, there are "Copy" and "Paste" buttons.

Alvarez

Cambio de nombre del router



```
Physical Config CLI
IOS Command Line Interface
PT 1001 (PTSC2005) processor (revision 0x200) with 60416K/5120K bytes of memory
.
Processor board ID PT0123 (0123)
PT2005 processor: part number 0, mask 01
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

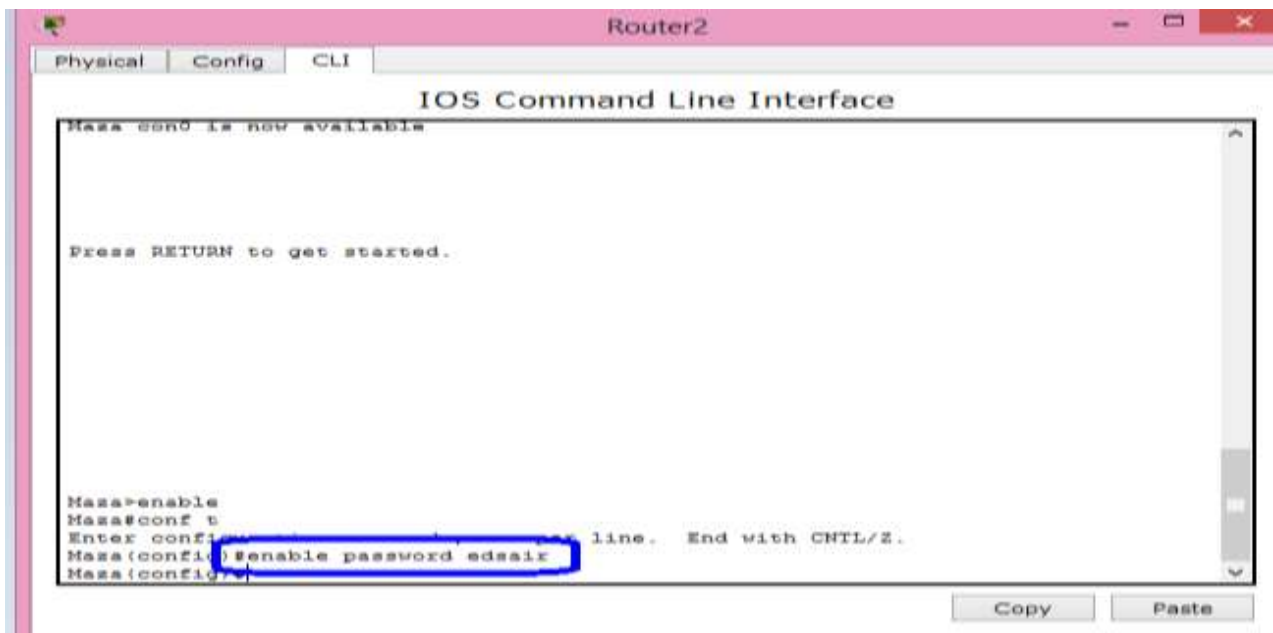
--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n

Press RETURN to get started!

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

Copy Paste

A continuación se le asigna una contraseña.



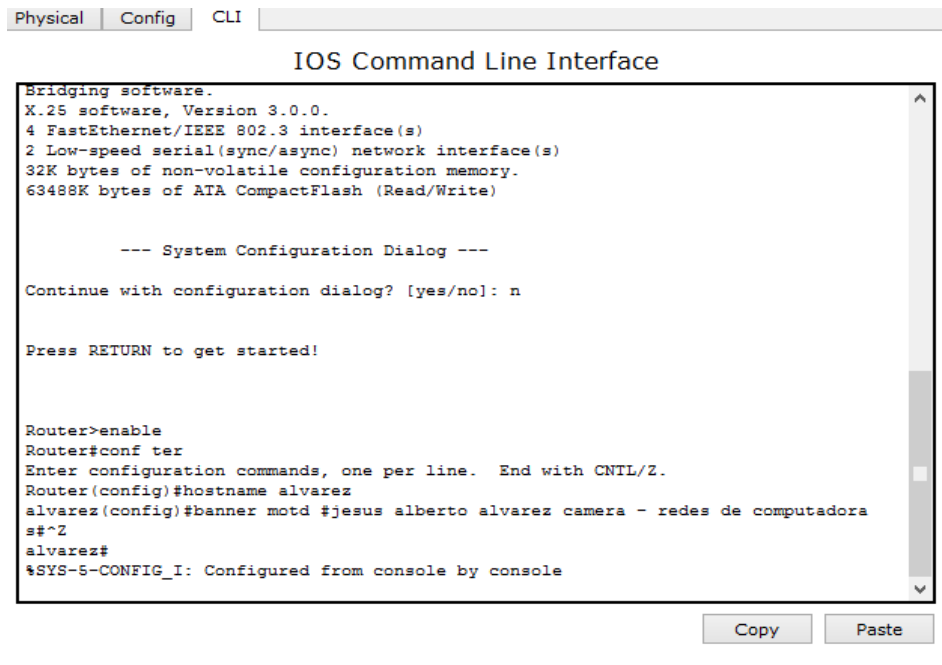
```
Router2
Physical Config CLI
IOS Command Line Interface
Masa con0 is now available

Press RETURN to get started.

Masa>enable
Masa#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Masa(config)#enable password edesir
Masa(config)#
```

Copy Paste

Por último se le asigna un banner.



The screenshot shows the IOS Command Line Interface with the following text:

```
Physical Config CLI
IOS Command Line Interface
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n

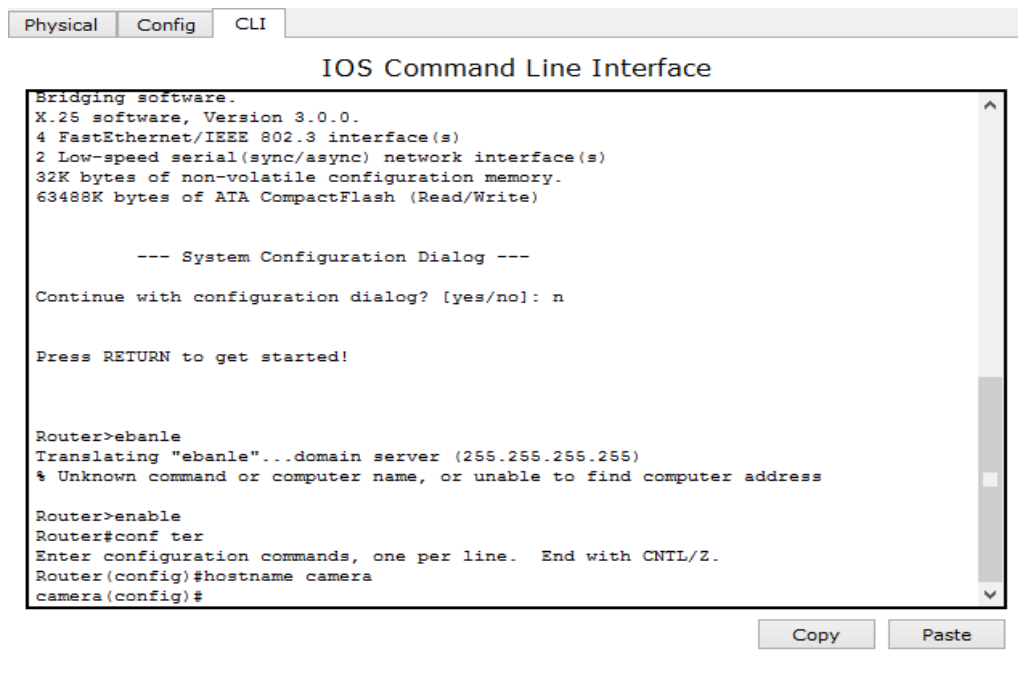
Press RETURN to get started!

Router>enable
Router#conf tex
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname alvarez
alvarez(config)#banner motd #jesus alberto alvarez camera - redes de computadora
s#^Z
alvarez#
%SYS-5-CONFIG_I: Configured from console by console
```

Copy Paste

Camera

Asignación de un nombre



The screenshot shows the IOS Command Line Interface with the following text:

```
Physical Config CLI
IOS Command Line Interface
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n

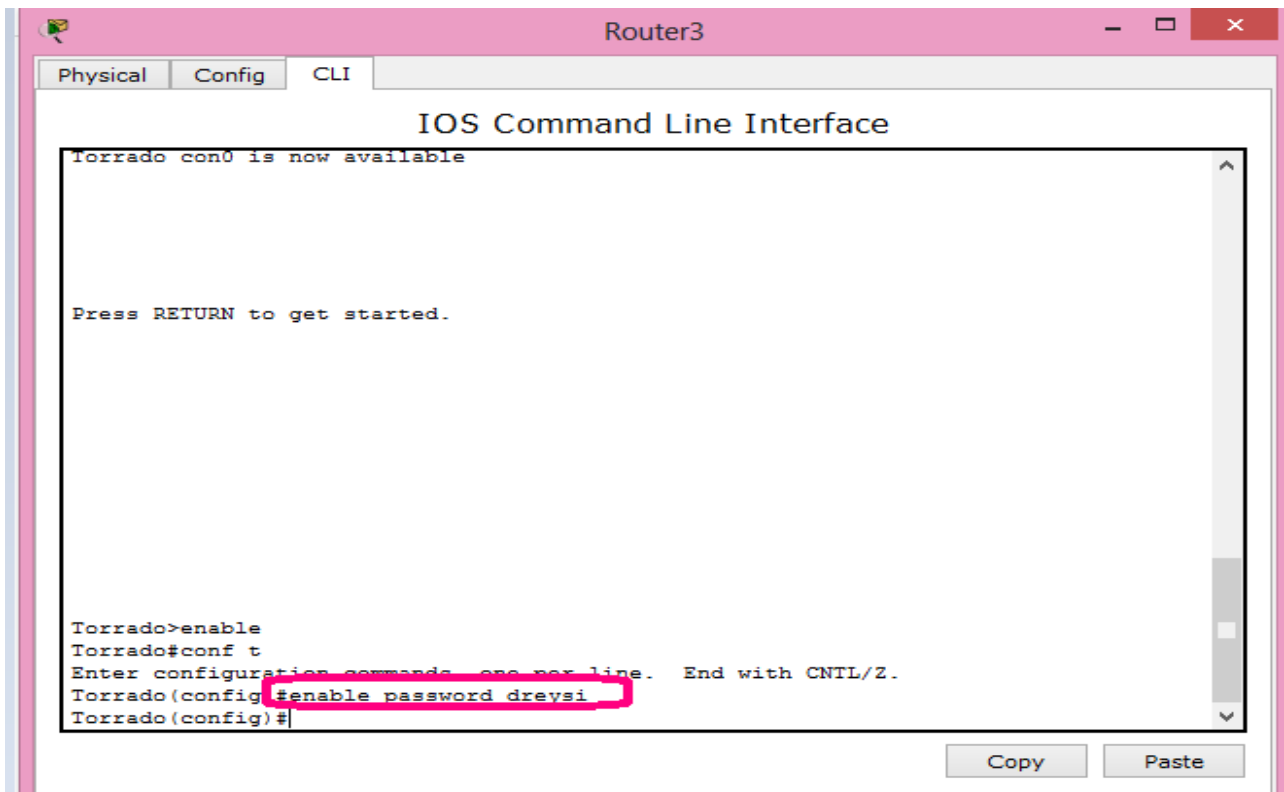
Press RETURN to get started!

Router>ebanle
Translating "ebanle"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Router>enable
Router#conf tex
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname camera
camera(config)#
```

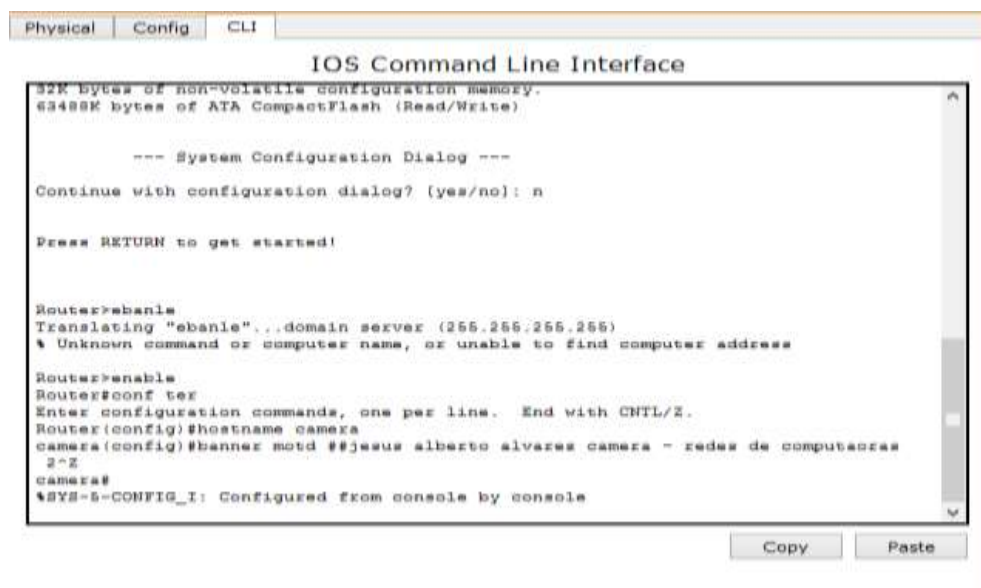
Copy Paste

A continuación se le debe asignar una contraseña.



The screenshot shows a window titled "Router3" with tabs for "Physical", "Config", and "CLI". The main area is titled "IOS Command Line Interface". The text inside the window reads: "Torrado con0 is now available", "Press RETURN to get started.", "Torrado>enable", "Torrado#conf t", "Enter configuration commands, one per line. End with CNTL/Z.", "Torrado (config) #enable password dreysi", and "Torrado (config) #". A pink box highlights the command "enable password dreysi". At the bottom right, there are "Copy" and "Paste" buttons.

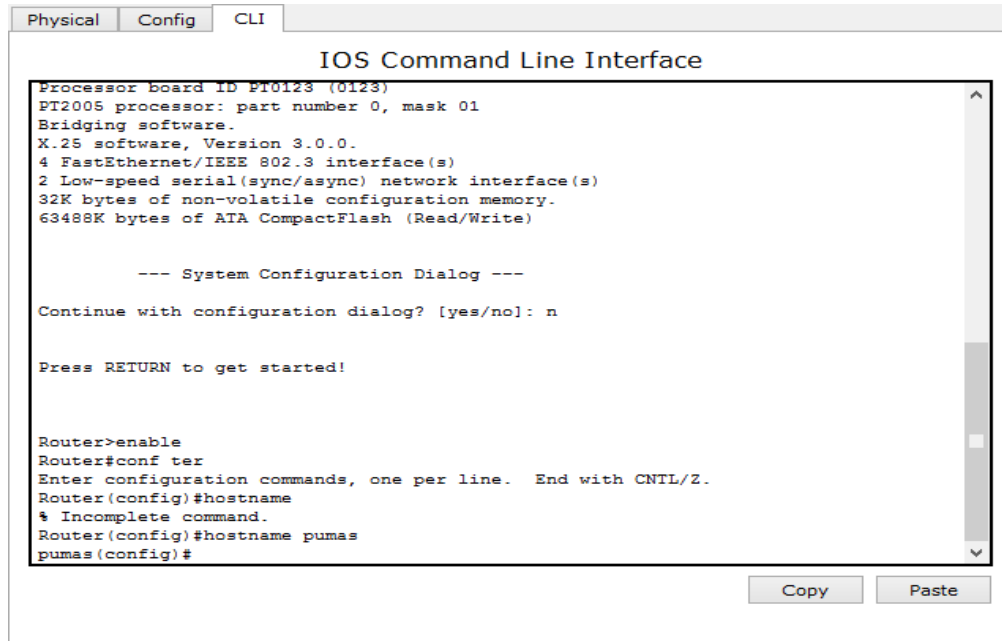
De igual forma se le asignara un banner.



The screenshot shows a window titled "Router3" with tabs for "Physical", "Config", and "CLI". The main area is titled "IOS Command Line Interface". The text inside the window reads: "32K bytes of non-volatile configuration memory.", "63488K bytes of ATA CompactFlash (Read/Write)", "--- System Configuration Dialog ---", "Continue with configuration dialog? (yes/no): n", "Press RETURN to get started!", "Router>enable", "Router#conf tex", "Translating "ebanle"...domain server (255.255.255.255)", "% Unknown command or computer name, or unable to find computer address", "Router>enable", "Router#conf tex", "Enter configuration commands, one per line. End with CNTL/Z.", "Router (config) #hostname camera", "camera (config) #banner motd ##jesus alberto alvarez camera - redes de computacras", "2~2", "camera#", and "%SYS-5-CONFIG_I: Configured from console by console". At the bottom right, there are "Copy" and "Paste" buttons.

Pumas

A continuación se le asigna el nombre



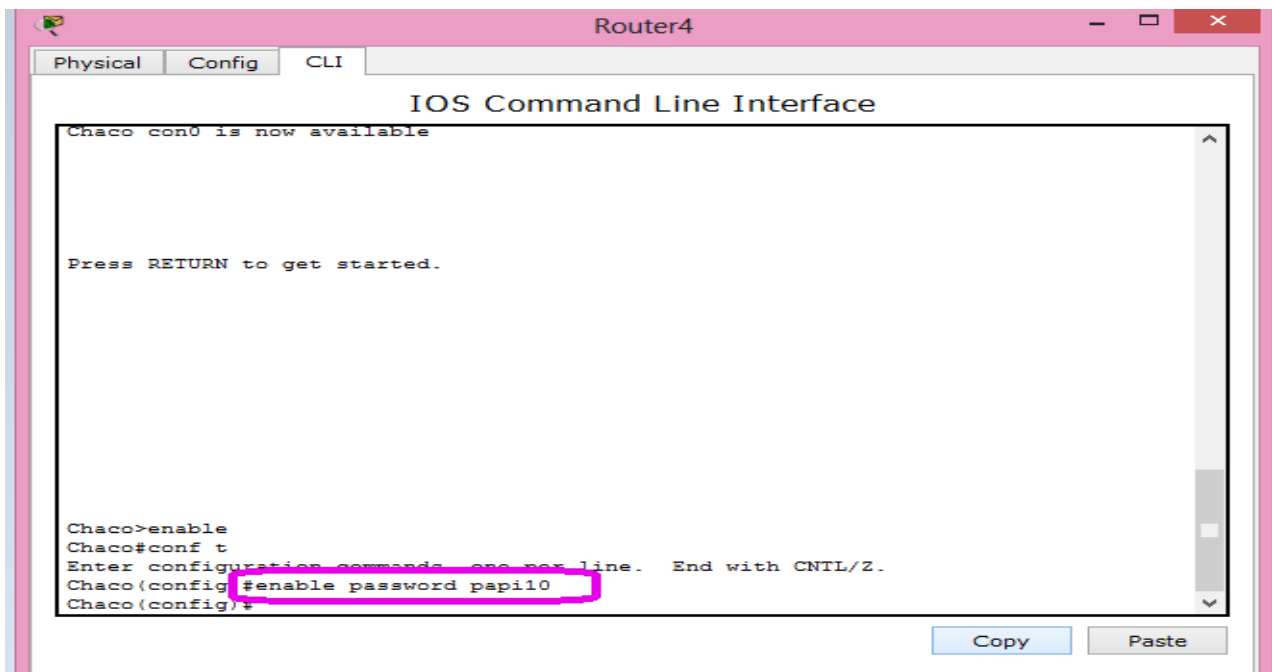
```
Physical Config CLI
IOS Command Line Interface
Processor board ID F10123 (0123)
PT2005 processor: part number 0, mask 01
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n

Press RETURN to get started!

Router>enable
Router#conf ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname
% Incomplete command.
Router(config)#hostname pumas
pumas(config)#
```

Posteriormente pasamos a asignarle una contraseña.

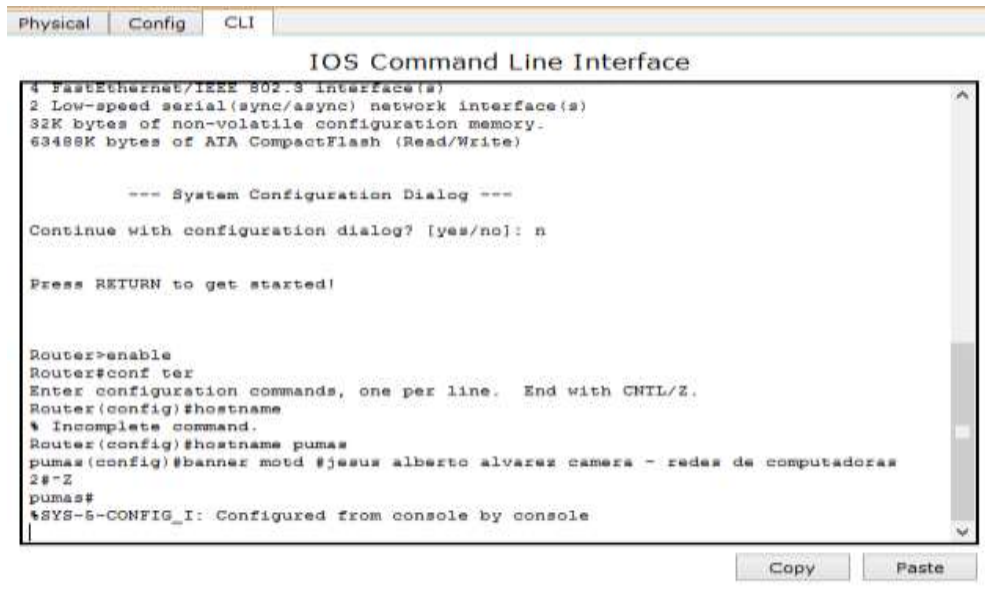


```
Router4
Physical Config CLI
IOS Command Line Interface
Chaco con0 is now available

Press RETURN to get started.

Chaco>enable
Chaco#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Chaco(config)#enable password papi10
Chaco(config)#
```

Al final se le asigna un banner como los demás.



```
Physical Config CLI
IOS Command Line Interface
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n

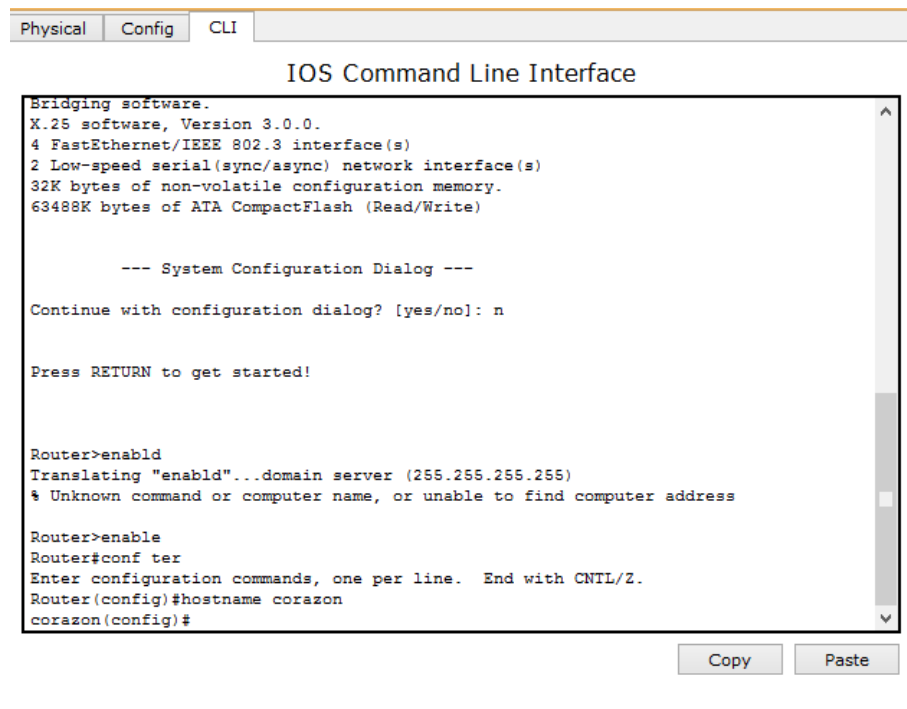
Press RETURN to get started!

Router>enable
Router#conf ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname
% Incomplete command.
Router(config)#hostname pumas
pumas(config)#banner motd #jesus alberto alvarez camera - redes de computadoras
2#-Z
pumas#
%SYS-5-CONFIG_I: Configured from console by console
```

Copy Paste

Corazón

Asignación de nombre al router



```
Physical Config CLI
IOS Command Line Interface
Bridging software.
X.25 software, Version 3.0.0.
4 FastEthernet/IEEE 802.3 interface(s)
2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

--- System Configuration Dialog ---
Continue with configuration dialog? [yes/no]: n

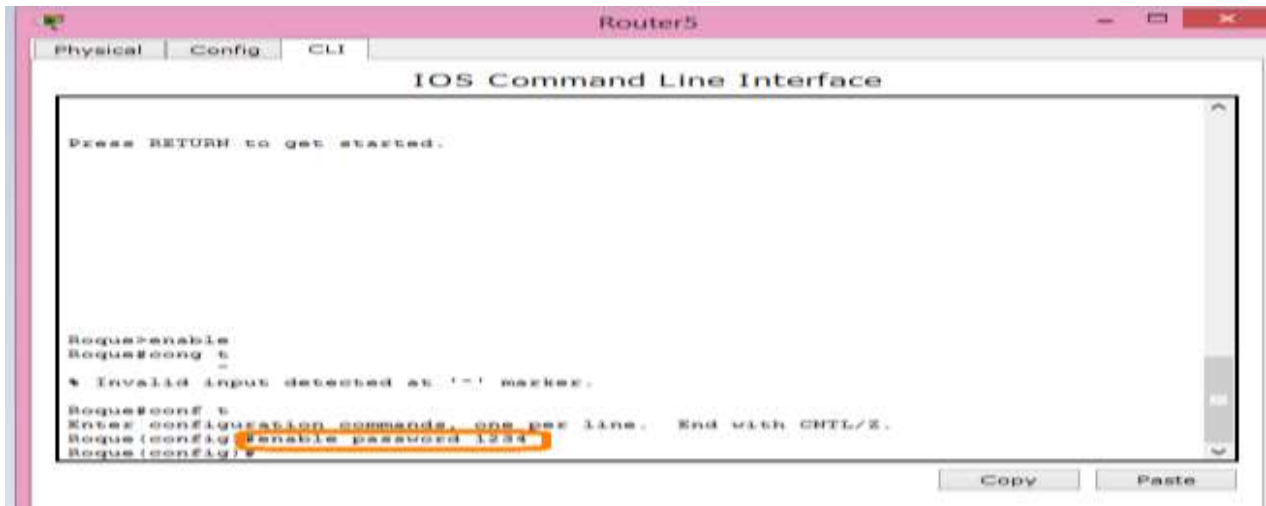
Press RETURN to get started!

Router>enabl
Translating "enabl"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

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

Copy Paste

A continuacion se le asigna una contraseña

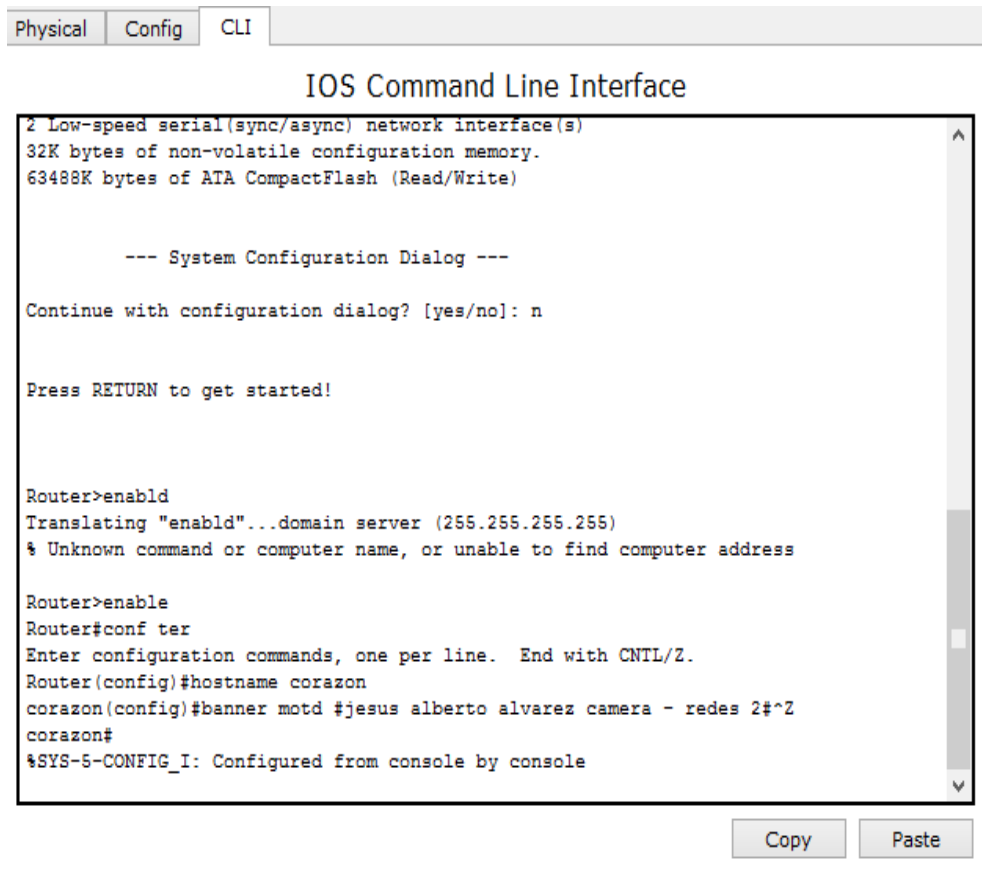


```
Router5
Physical Config CLI
IOS Command Line Interface

Press RETURN to get started.

Router>enable
Router#conf t
-
% Invalid input detected at '^' marker.
Router#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#enable password 1234
Router(config)#
```

Finalmente es necesario asignarle un banner.



```
Physical Config CLI
IOS Command Line Interface

2 Low-speed serial(sync/async) network interface(s)
32K bytes of non-volatile configuration memory.
63488K bytes of ATA CompactFlash (Read/Write)

--- System Configuration Dialog ---

Continue with configuration dialog? [yes/no]: n

Press RETURN to get started!

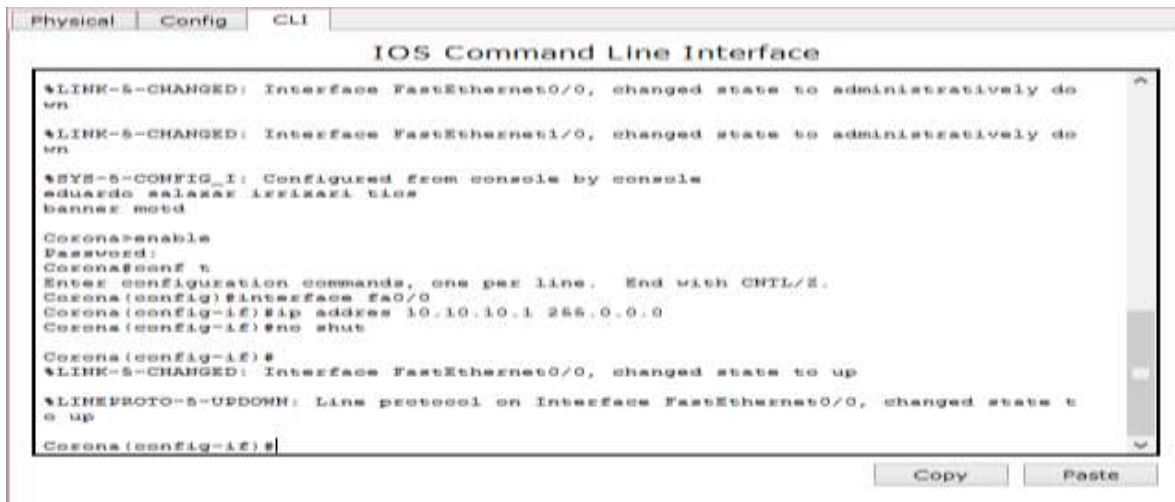
Router>enabl
Translating "enabl"...domain server (255.255.255.255)
% Unknown command or computer name, or unable to find computer address

Router>enable
Router#conf ter
Enter configuration commands, one per line. End with CNTL/Z.
Router(config)#hostname corazon
corazon(config)#banner motd #jesus alberto alvarez camera - redes 2#^Z
corazon#
%SYS-5-CONFIG_I: Configured from console by console
```

Después de que se haya realizado estas configuraciones a cada uno de los routers, es necesario llevar a cabo el levantamiento de puertos para que tengan conexión, tanto de los fa y los seriales.

jesus

Puerto fa0/0



```
Physical | Config | CLI
IOS Command Line Interface

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to administratively do
wn
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to administratively do
wn
%SYS-5-CONFIG_I: Configured from console by console
eduardo salazar redes de computadoras
banner motd

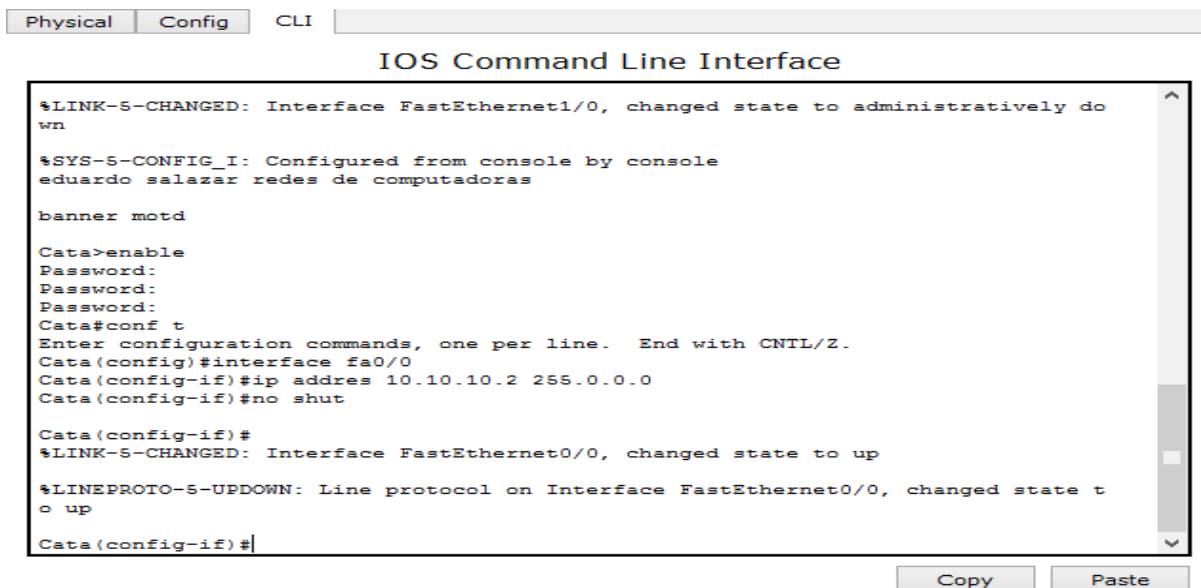
Coxona>enable
Password:
Coxona#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Coxona(config)#interface fa0/0
Coxona(config-if)#ip address 10.10.10.1 255.0.0.0
Coxona(config-if)#no shut

Coxona(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up
Coxona(config-if)#
```

En este caso solo se lleva a cabo el levantamiento de un solo puerto ya que solo tiene conectado un solo dispositivo.

Alberto.

Puerto fa0/0



```
Physical | Config | CLI
IOS Command Line Interface

%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to administratively do
wn
%SYS-5-CONFIG_I: Configured from console by console
eduardo salazar redes de computadoras
banner motd

Cata>enable
Password:
Password:
Password:
Cata#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Cata(config)#interface fa0/0
Cata(config-if)#ip address 10.10.10.2 255.0.0.0
Cata(config-if)#no shut

Cata(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up
%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up
Cata(config-if)#
```

Posteriormente levantamos el otro puerto que es el fa1/0.

Physical Config CLI

IOS Command Line Interface

```
Password:
Password:
Cata#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Cata(config)#interface fa0/0
Cata(config-if)#ip address 10.10.10.2 255.0.0.0
Cata(config-if)#no shut

Cata(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Cata(config-if)#exit
Cata(config)#interface fa1/0
Cata(config-if)#ip address 172.16.40.1 255.255.0.0
Cata(config-if)#no shut

Cata(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Cata(config-if)#
```

Copy Paste

Ahora llevamos a cabo el levantamiento del serial del router.

S2/0

Physical Config CLI

IOS Command Line Interface

```
Cata(config-if)#exit
Cata(config)#interface fa1/0
Cata(config-if)#ip address 172.16.40.1 255.255.0.0
Cata(config-if)#no shut

Cata(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Cata(config-if)#exit
Cata(config)#interface s2/0
Cata(config-if)#ip address 172.16.40.1 255.255.0.0
% 172.16.0.0 overlaps with FastEthernet1/0
Cata(config-if)#ip address 172.16.52.128 255.255.0.0
% 172.16.0.0 overlaps with FastEthernet1/0
Cata(config-if)#ip address 172.16.52.128 255.255.0.0
% 172.16.0.0 overlaps with FastEthernet1/0
Cata(config-if)#ip address 192.16.52.128 255.255.0.0
Cata(config-if)#no shut

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Cata(config-if)#
Cata(config-if)#
```

Copy Paste

Alvarez

Levantamiento del Puerto fa0/0

```
Physical | Config | CLI | IOS Command Line Interface

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to administratively do
wn

%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to administratively do
wn

%SYS-5-CONFIG_I: Configured from console by console
redes de computadoras tics
banner motd

Maza>enable
Password:
Maza#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Maza(config)#interface fa0/0
Maza(config-if)#ip address 10.10.10.3 255.0.0.0
Maza(config-if)#no shut

Maza(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up

Maza(config-if)#
```

Copy Paste

Levantamiento del Puerto fa1/0.

```
Physical | Config | CLI | IOS Command Line Interface

Maza>enable
Password:
Maza#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Maza(config)#interface fa0/0
Maza(config-if)#ip address 10.10.10.3 255.0.0.0
Maza(config-if)#no shut

Maza(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up

Maza(config-if)#exit
Maza(config)#interface fa1/0
Maza(config-if)#ip address 172.16.50.1 255.255.0.0
Maza(config-if)#no shut

Maza(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state t
o up

Maza(config-if)#
```

Copy Paste

Camera.

Levantamiento del Puerto fa0/0.

```
Physical Config CLI
IOS Command Line Interface

%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to administratively do
wn

%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to administratively do
wn

%SYS-5-CONFIG_I: Configured from console by console
tics eduardo salazar redes
banner motd

Torrado>enable
Password:
Torrado#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Torrado(config)#interface fa0/0
Torrado(config-if)#ip address 10.10.10.4 255.255.0.0
Torrado(config-if)#no shut

Torrado(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up

Torrado(config-if)#
```

Copy Paste

Levantamiento del Puerto fa1/0.

```
Physical Config CLI
IOS Command Line Interface

Torrado(config)#interface fa0/0
Torrado(config-if)#ip address 10.10.10.4 255.255.0.0
Torrado(config-if)#no shut

Torrado(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state t
o up

Torrado(config-if)#exit
Torrado(config)#interface fa1/0
Torrado(config-if)#172.16.52.1 255.255.0.0
^
% Invalid input detected at '^' marker.

Torrado(config-if)#ip address 172.16.52.1 255.255.0.0
Torrado(config-if)#no shut

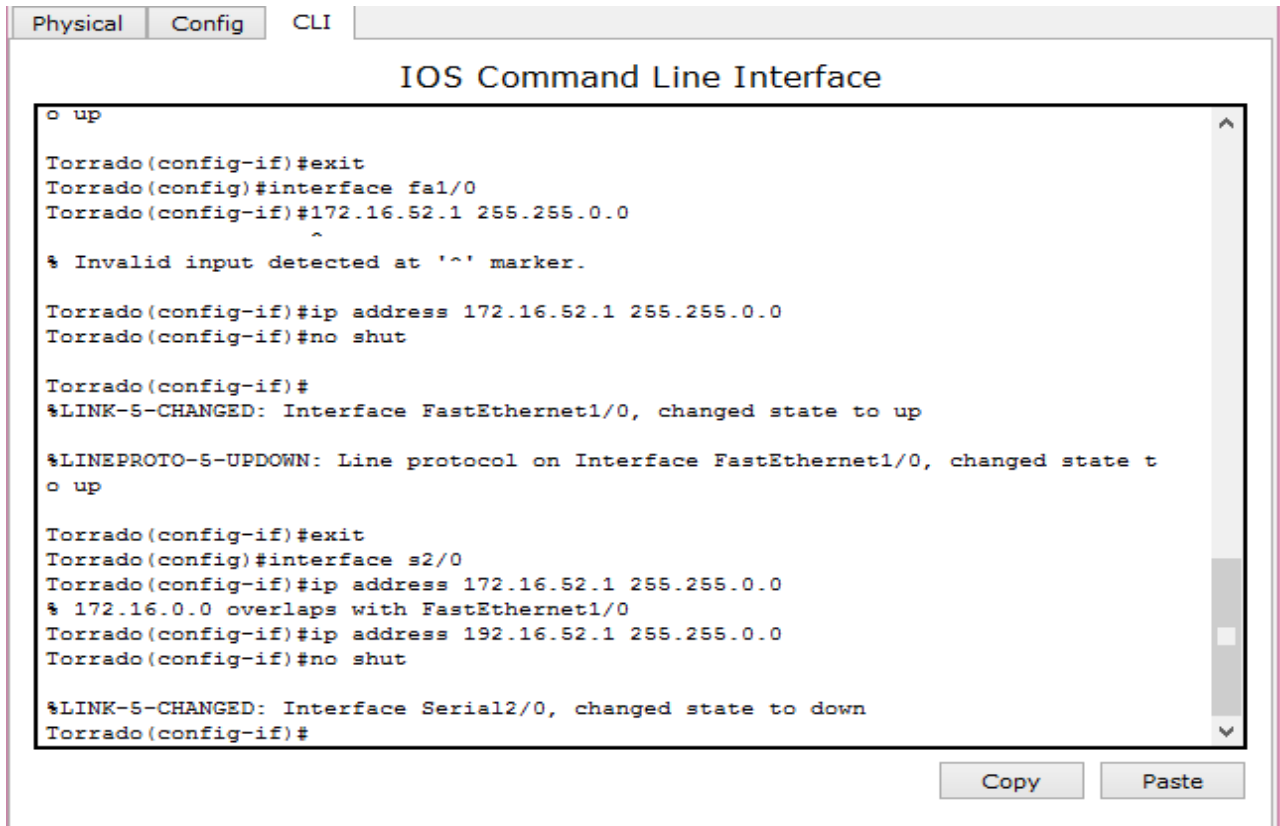
Torrado(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state t
o up

Torrado(config-if)#
```

Copy Paste

Levantamiento del Serial2/0.



The screenshot shows the IOS Command Line Interface with tabs for Physical, Config, and CLI. The terminal output is as follows:

```
o up
Torrado(config-if)#exit
Torrado(config)#interface fa1/0
Torrado(config-if)#172.16.52.1 255.255.0.0
^
% Invalid input detected at '^' marker.

Torrado(config-if)#ip address 172.16.52.1 255.255.0.0
Torrado(config-if)#no shut

Torrado(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to
o up

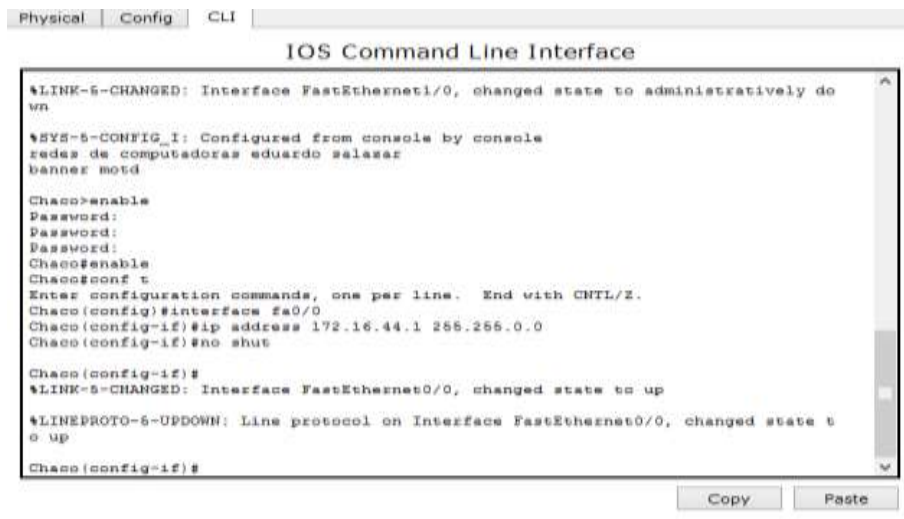
Torrado(config-if)#exit
Torrado(config)#interface s2/0
Torrado(config-if)#ip address 172.16.52.1 255.255.0.0
% 172.16.0.0 overlaps with FastEthernet1/0
Torrado(config-if)#ip address 192.16.52.1 255.255.0.0
Torrado(config-if)#no shut

%LINK-5-CHANGED: Interface Serial2/0, changed state to down
Torrado(config-if)#
```

Buttons for Copy and Paste are visible at the bottom right of the terminal window.

Pumas.

Levantamiento del Puerto fa0/0



The screenshot shows the IOS Command Line Interface with tabs for Physical, Config, and CLI. The terminal output is as follows:

```
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to administratively do
wn

%SYS-5-CONFIG_I: Configured from console by console
redes de computadoras eduardo salazar
banner motd

Chaco>enable
Password:
Password:
Chaco#enable
Chaco#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Chaco(config)#interface fa0/0
Chaco(config-if)#ip address 172.16.44.1 255.255.0.0
Chaco(config-if)#no shut

Chaco(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to
o up

Chaco(config-if)#
```

Buttons for Copy and Paste are visible at the bottom right of the terminal window.

Levantamiento del Puerto fa1/0.

```
Physical Config CLI
IOS Command Line Interface
Chaco(config)#interface fa0/0
Chaco(config-if)#ip address 172.16.44.1 255.255.0.0
Chaco(config-if)#no shut

Chaco(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Chaco(config-if)#exit
Chaco(config)#interface fa1/0
Chaco(config-if)#ip address 172.16.0.1 255.255.0.0
% 172.16.0.0 overlaps with FastEthernet0/0
Chaco(config-if)#ip address 172.16.1.1 255.255.0.0
% 172.16.0.0 overlaps with FastEthernet0/0
Chaco(config-if)#ip address 192.16.0.1 255.255.0.0
Chaco(config-if)#no shut

Chaco(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Chaco(config-if)#
```

Levantamiento del Serial2/0.

```
Physical Config CLI
IOS Command Line Interface
Chaco(config)#interface s2/0
^
% Invalid input detected at '^' marker.

Chaco(config)#interface 2/0
^
% Invalid input detected at '^' marker.

Chaco(config)#interface s2/0
Chaco(config-if)#172.16.52.129 255.255.0.0
^
% Invalid input detected at '^' marker.

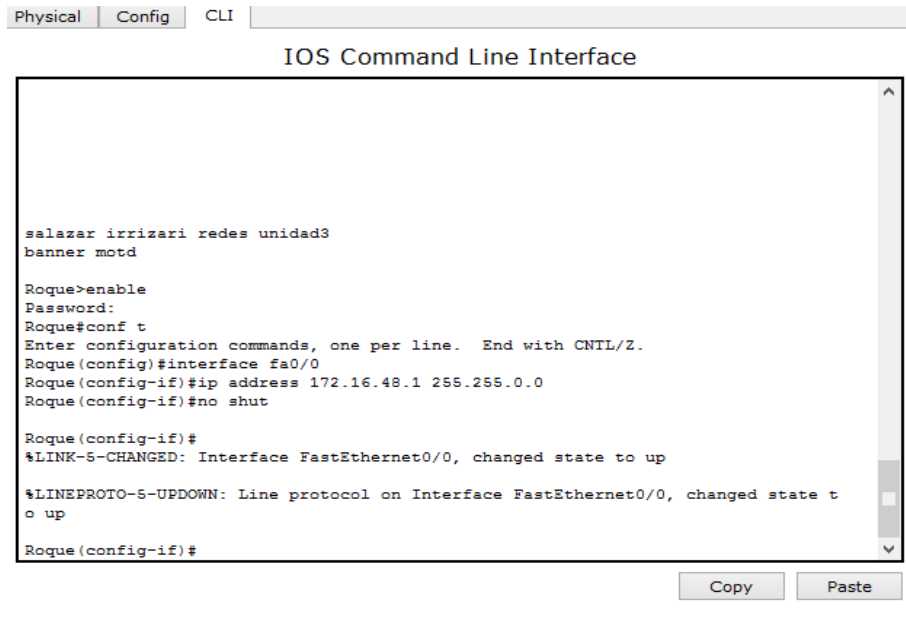
Chaco(config-if)#ip address 172.16.52.129 255.255.0.0
% 172.16.0.0 overlaps with FastEthernet0/0
Chaco(config-if)#ip address 192.16.52.129 255.255.0.0
% 192.16.0.0 overlaps with FastEthernet1/0
Chaco(config-if)#ip address 192.16.52.129 255.255.0.0
% 192.16.0.0 overlaps with FastEthernet1/0
Chaco(config-if)#ip address 192.168.52.129 255.255.0.0
Chaco(config-if)#no shut

Chaco(config-if)#
%LINK-5-CHANGED: Interface Serial2/0, changed state to up

Chaco(config-if)#
```

Corazón

Levantando el Puerto fa0/0



The screenshot shows the IOS Command Line Interface with tabs for Physical, Config, and CLI. The terminal output displays the following commands and responses:

```
salazar irrizari redes unidad3
banner motd

Roque>enable
Password:
Roque#conf t
Enter configuration commands, one per line. End with CNTL/Z.
Roque(config)#interface fa0/0
Roque(config-if)#ip address 172.16.48.1 255.255.0.0
Roque(config-if)#no shut

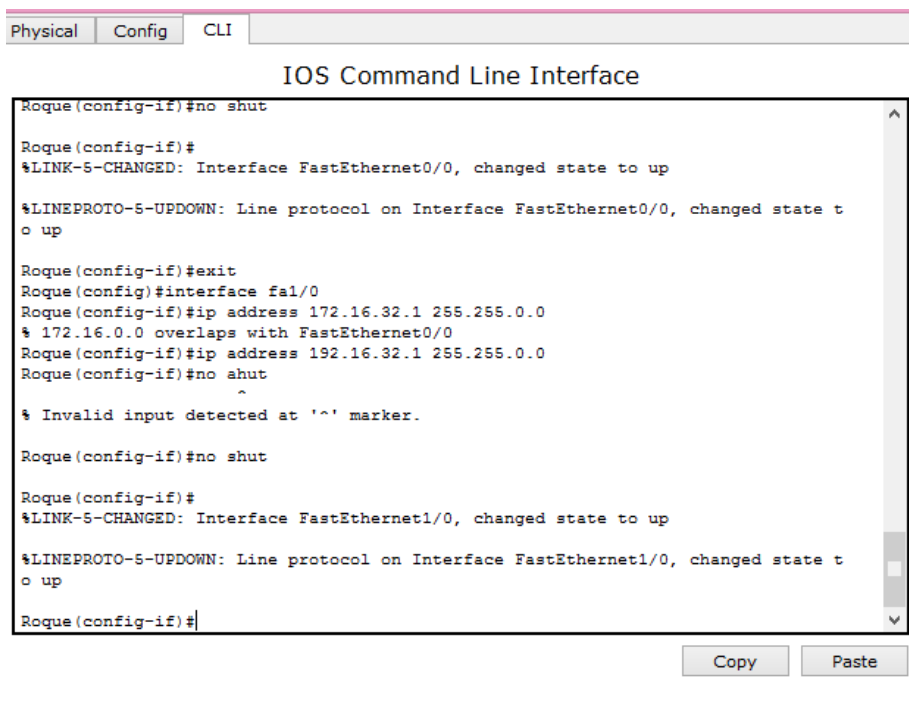
Roque(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Roque(config-if)#
```

Buttons for Copy and Paste are visible at the bottom right of the terminal window.

Levantamiento del Puerto fa1/0



The screenshot shows the IOS Command Line Interface with tabs for Physical, Config, and CLI. The terminal output displays the following commands and responses:

```
Roque(config-if)#no shut

Roque(config-if)#
%LINK-5-CHANGED: Interface FastEthernet0/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet0/0, changed state to up

Roque(config-if)#exit
Roque(config)#interface fa1/0
Roque(config-if)#ip address 172.16.32.1 255.255.0.0
% 172.16.0.0 overlaps with FastEthernet0/0
Roque(config-if)#ip address 192.16.32.1 255.255.0.0
Roque(config-if)#no shut
^
% Invalid input detected at '^' marker.

Roque(config-if)#no shut

Roque(config-if)#
%LINK-5-CHANGED: Interface FastEthernet1/0, changed state to up

%LINEPROTO-5-UPDOWN: Line protocol on Interface FastEthernet1/0, changed state to up

Roque(config-if)#
```

Buttons for Copy and Paste are visible at the bottom right of the terminal window.

Conclusión

En esta práctica se pudieron observar los distintos comandos que posee un router cisco, así como su configuración inicial, el cambio de nombre, asignar una contraseña y poner un mensaje de bienvenida al router (banner). También se configuro cada uno de estos para su comunicación con otras pc y Routers levantando sus puertos seriales y fastethernet.