Instituto Tecnológico de Salina Cruz

Fundamentos de Redes

Semestre Enero – Julio 2015

Reporte de Practica

Practica n° 1

Unidad 3

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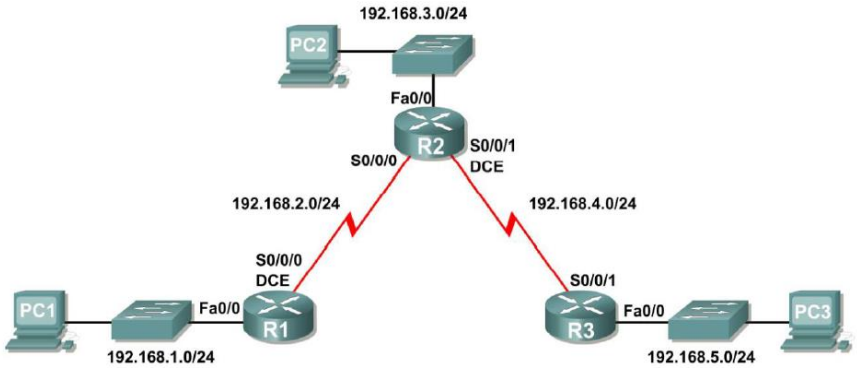
Fecha: 16 de Abril del 2015

Objetivo: Conocer los comandos básicos de un router Cisco y configurar rutas estáticas para los mismos

Instrucciones:

Realice, La tabla de direccionamiento, la configuración inicial Y verifique las conexiones entre las PC´s. Agregar al menos 5 pcs por subred

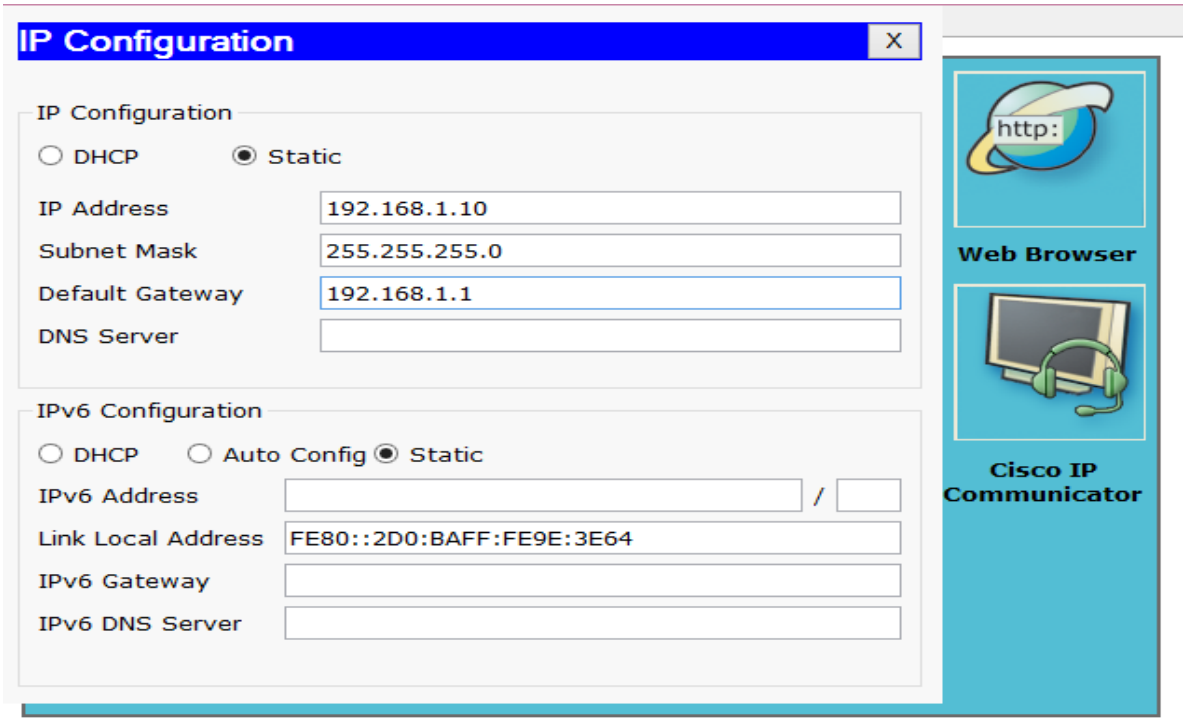


Dispositivo	Interfaz	Dirección IP	Mascara de subred	Gateway
usb	Fa0/0	192.168.1.1	255.255.255.0	No aplicable
	S2/0	192.168.2.1	255.255.255.0	
oro	Fa0/	192.168.3.1	255.255.255.0	No aplicable
	S2/0	192.168.2.2	255.255.255.0	
	S3/0	192.168.4.1	255.255.255.0	
paza	Fa0/0	192.168.5.1	255.255.255.0	No aplicable
	S2/0	192.168.4.2	255.255.255.0	
PC1	No aplicable	192.168.1.10	255.255.255.0	192.168.1.1
PC2	No aplicable	192.168.1.11	255.255.255.0	192.168.1.1
PC3	No aplicable	192.168.1.12	255.255.255.0	192.168.1.1
PC4	No aplicable	192.168.1.13	255.255.255.0	192.168.1.1
PC5	No aplicable	192.168.1.14	255.255.255.0	192.168.1.1
PC6	No aplicable	192.168.3.10	255.255.255.0	192.168.3.1
PC7	No aplicable	192.168.3.11	255.255.255.0	192.168.3.1
PC8	No aplicable	192.168.3.12	255.255.255.0	192.168.3.1
PC9	No aplicable	192.168.3.13	255.255.255.0	192.168.3.1
PC10	No aplicable	192.168.3.14	255.255.255.0	192.168.3.1
PC11	No aplicable	192.168.5.10	255.255.255.0	192.168.5.1
PC12	No aplicable	192.168.5.11	255.255.255.0	192.168.5.1
PC13	No aplicable	192.168.5.12	255.255.255.0	192.168.5.1
PC14	No aplicable	192.168.5.13	255.255.255.0	192.168.5.1
PC15	No aplicable	192.168.5.14	255.255.255.0	192.168.5.1

Materiales:

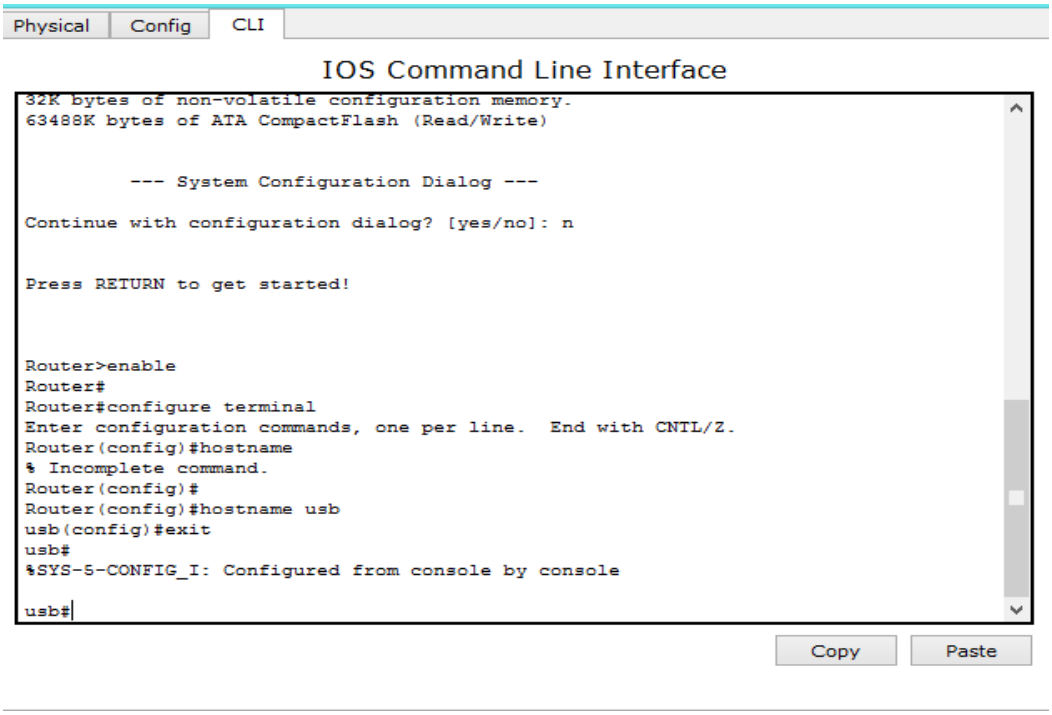
Programa de simulacion Packet Tracer

Como primer paso, se configura la dirección ip, y la máscara de subred de las pc's iniciando con la pc1 de la siguiente manera.

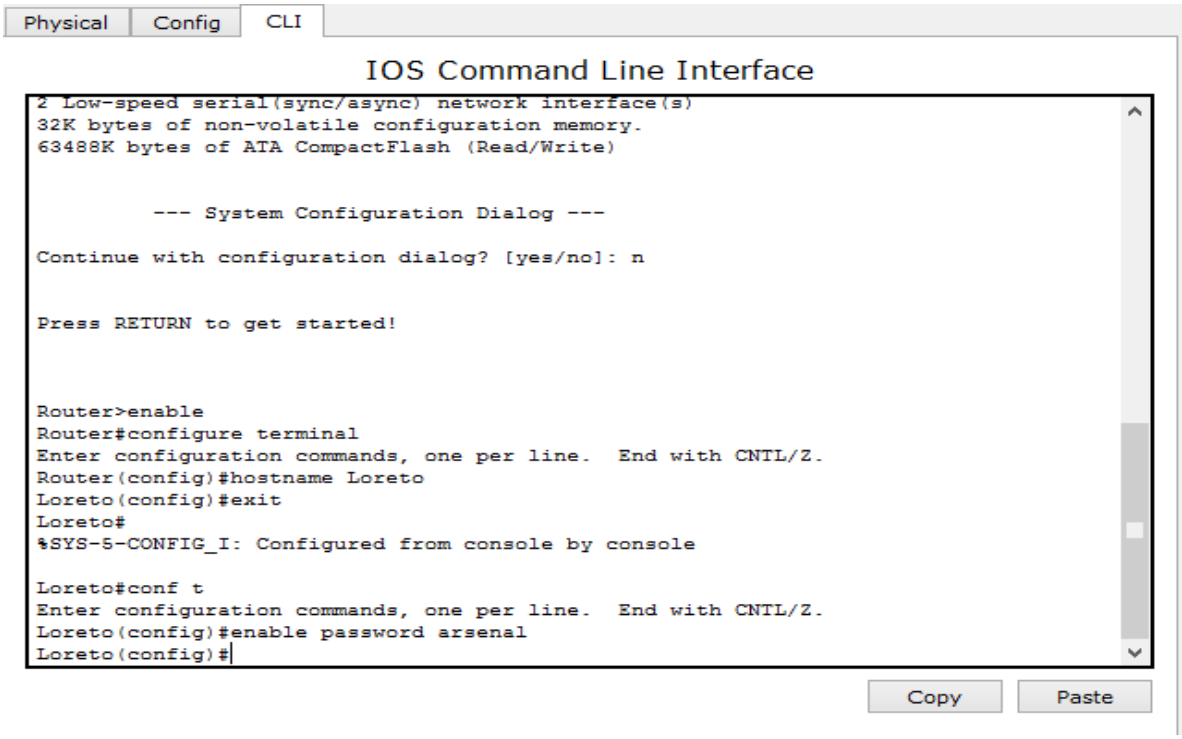


A continuación se iniciara cn l configuración primaria de un router el cual se cambiara el nombre a los mismos.

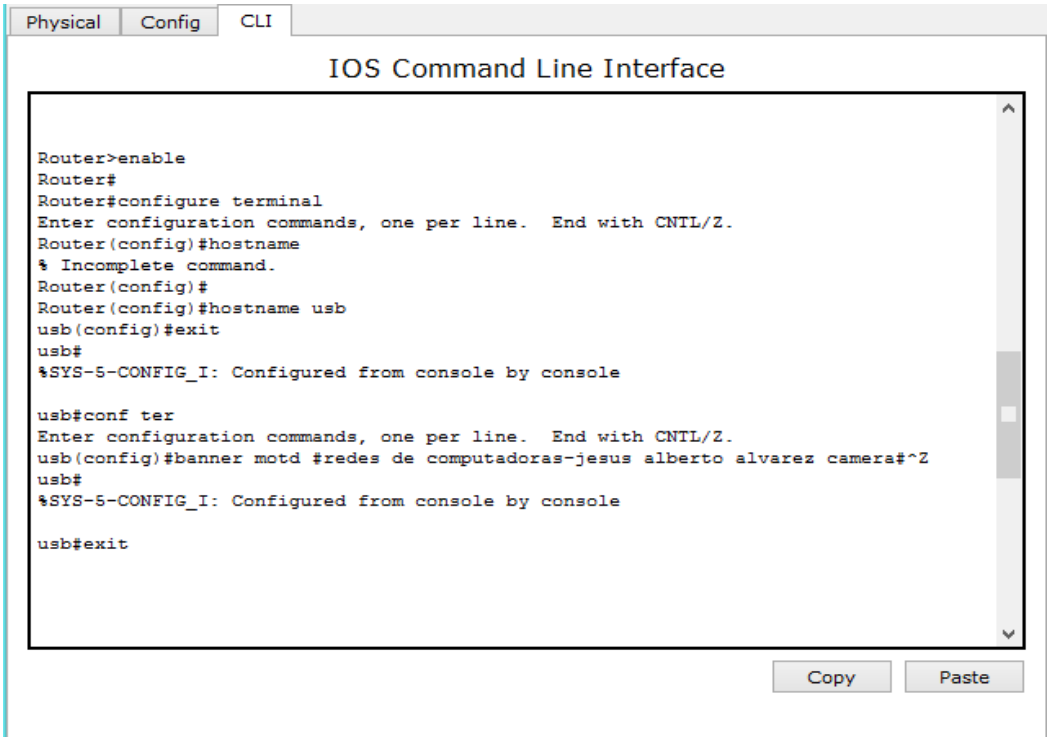
El primer router se llamara USB



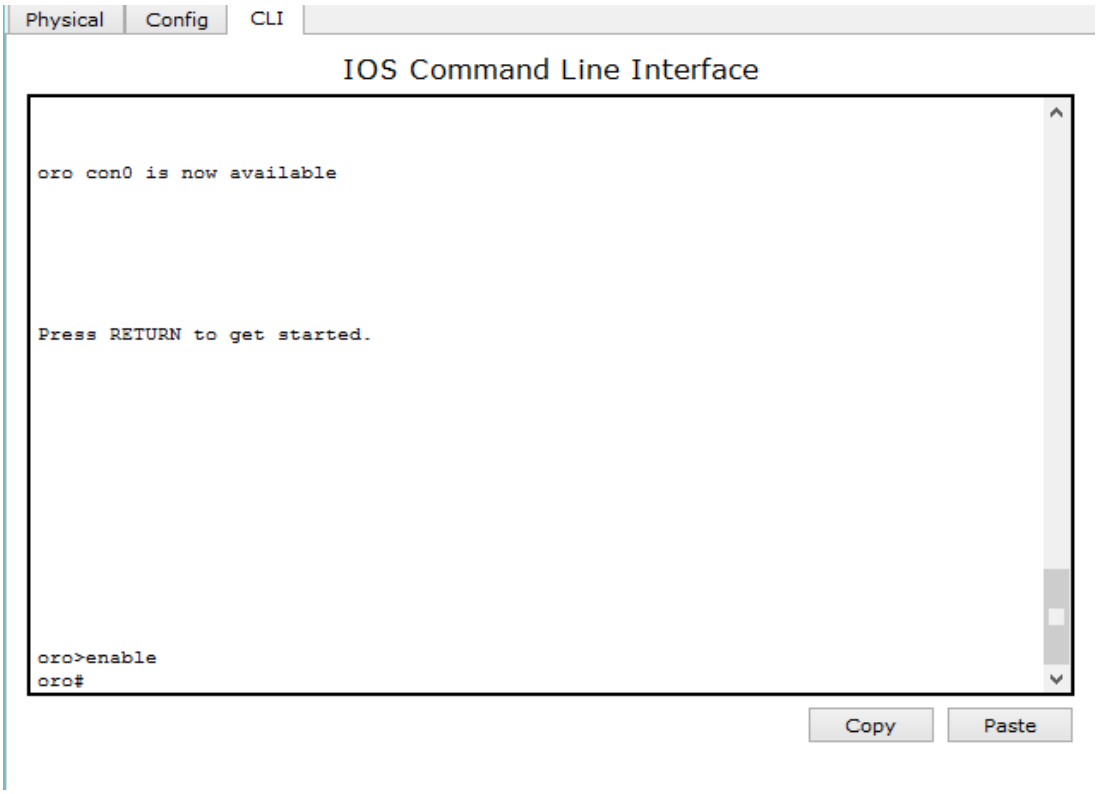
Se le asignara una contraseña



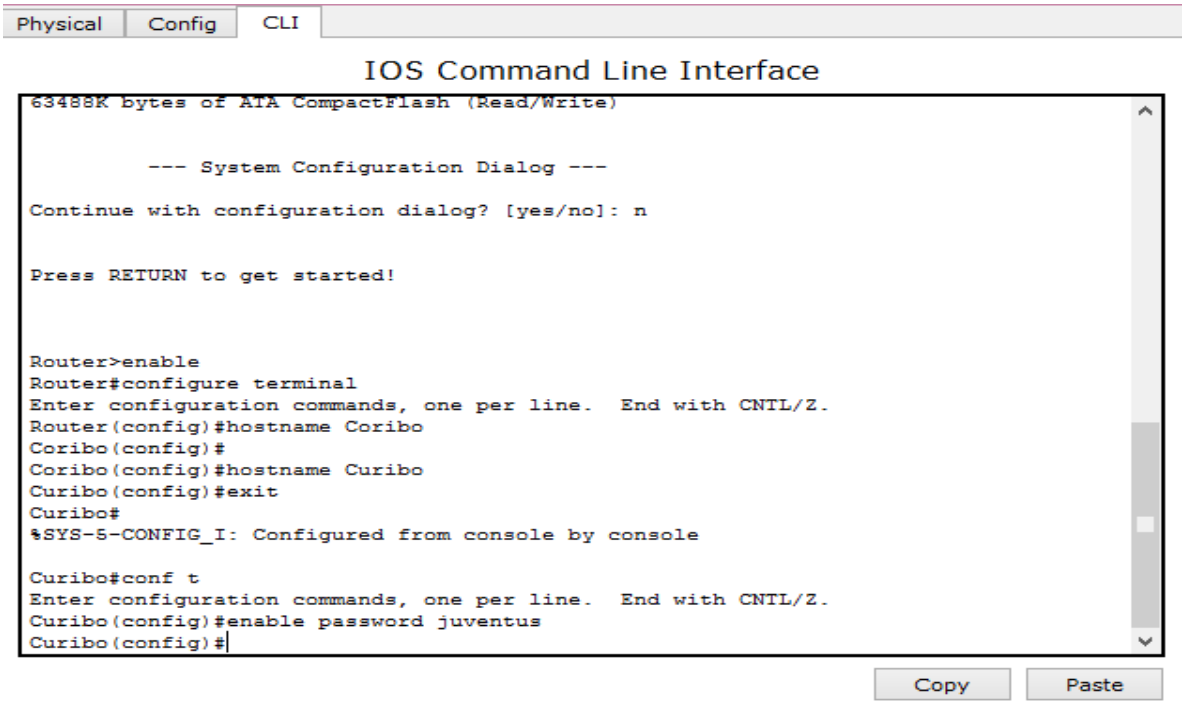
Asignando un mensaje del banner.



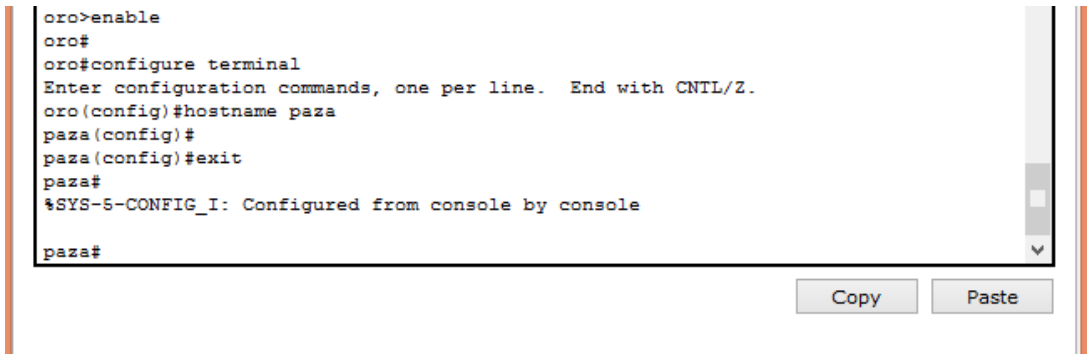
Cambiando el nombre del router 2 ORO



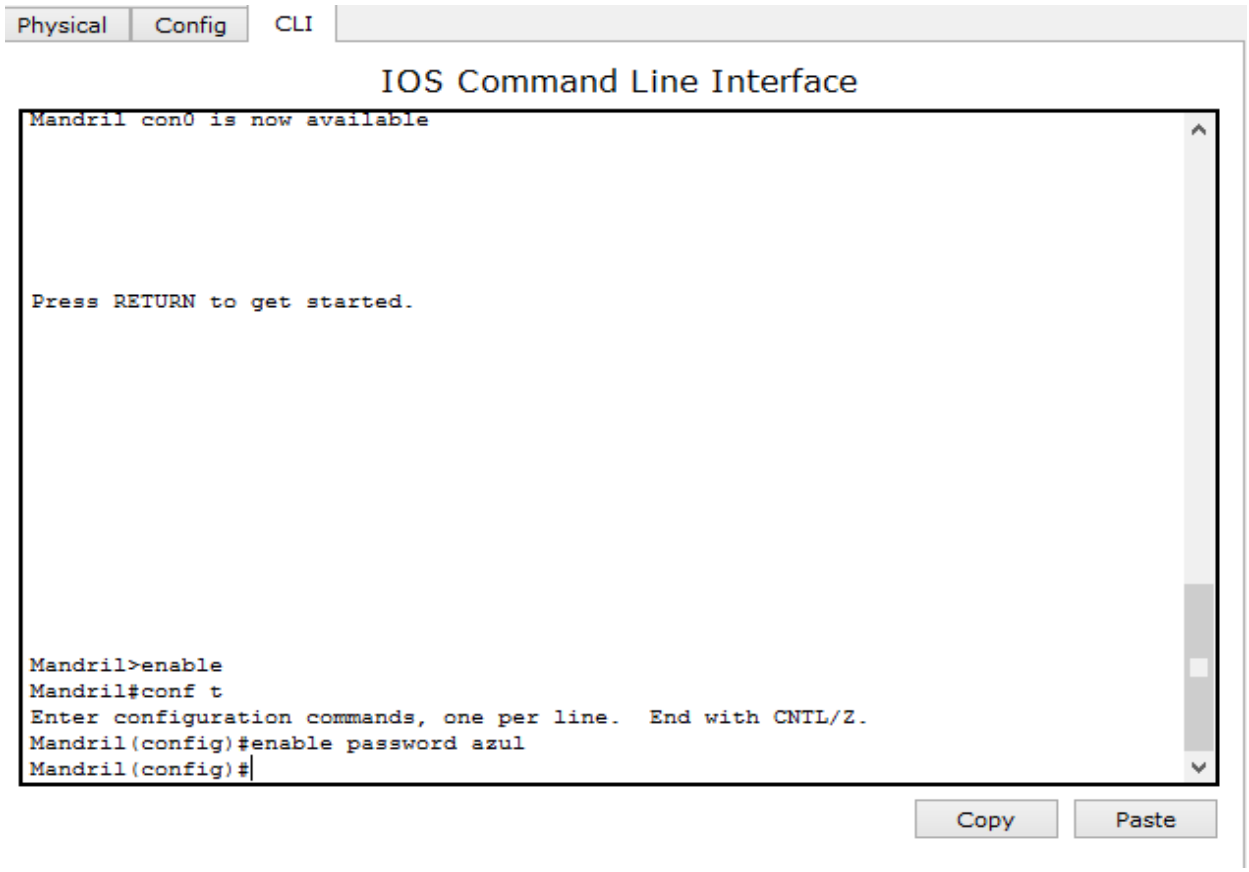
Como paso siguiente se le asigna una contraseña al router 2.



A continuación se realizan las configuraciones para el router 3, primero asignándole un nombre.



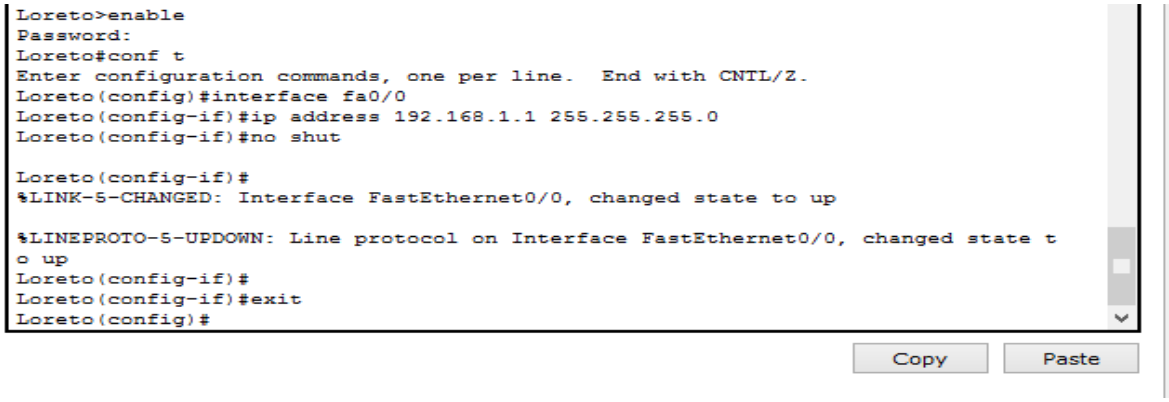
Asignando una contraseña al router



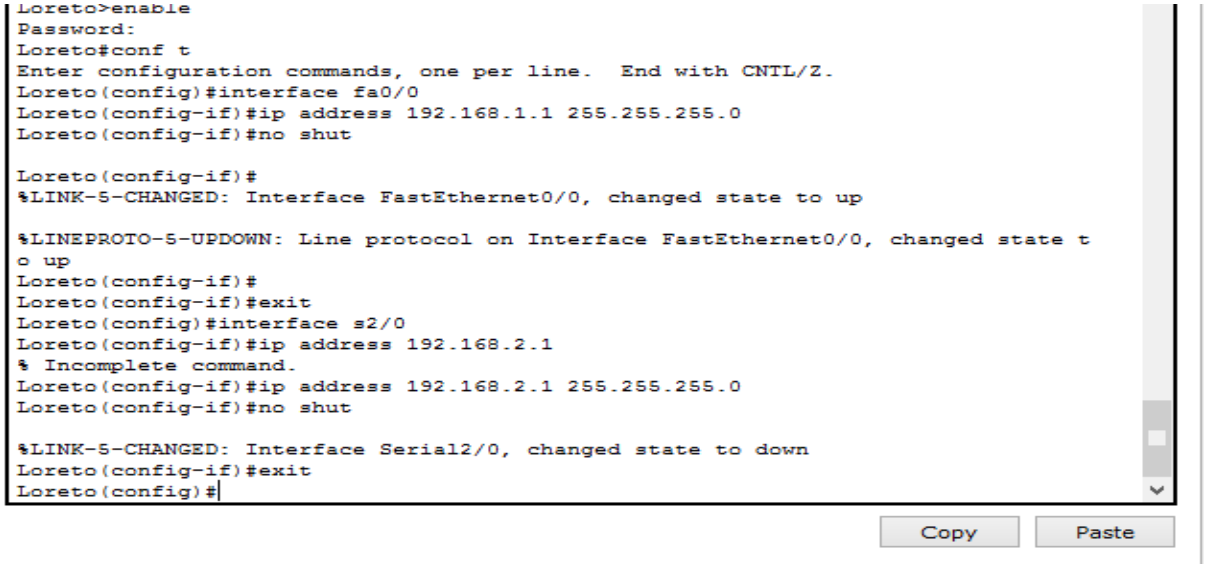
A continuación se procede a levantar los fa0/0, y los seriales para cada router, como se muestra a continuación

Para el router 1

Puerto fa0/0.



Serial2/0.



Configurando puertos, del router 2

Puertofa0/0.

```
Curibo>enable
Password:
Curibo#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Curibo(config)#interface fa0/0
Curibo(config-if)#ip address 192.168.2.1 255.255.255.0
Curibo(config-if)#no shut

Curibo(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

Curibo(config-if)#
```

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Serial2/0.

```
Curibo(config-if)#ip address 192.168.2.1 255.255.255.0
Curibo(config-if)#no shut

Curibo(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

Curibo(config-if)#exit
Curibo(config)#interface s2/0
Curibo(config-if)#ip address 192.168.2.2 255.255.255.0
% 192.168.2.0 overlaps with FastEthernet0/0
Curibo(config-if)#exit
Curibo(config)#interface fa0/0
Curibo(config-if)#ip address 192.168.3.1 255.255.255.0
Curibo(config-if)#no shut
Curibo(config-if)#exit
Curibo(config)#interface s2/0
Curibo(config-if)#ip addres 192.168.2.2 255.255.255.0
Curibo(config-if)#no shut

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

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A continuación se levantaran 2 puertos, para permitir la conexión entre dos Routers a un tercero.

Serial3/0.

```
Curibo(config-if)#exit
Curibo(config)#interface fa0/0
Curibo(config-if)#ip address 192.168.3.1 255.255.255.0
Curibo(config-if)#no shut
Curibo(config-if)#exit
Curibo(config)#interface s2/0
Curibo(config-if)#ip addres 192.168.2.2 255.255.255.0
Curibo(config-if)#no shut

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

%LINEPROTO-5-UPDOWN: Line protocol on Interface Serial2/0, changed state to up

Curibo(config-if)#exit
Curibo(config)#interface s3/0
Curibo(config-if)#ip address 192.168.2.2 255.255.255.0
% 192.168.2.0 overlaps with Serial2/0
Curibo(config-if)#ip address 192.168.4.1 255.255.255.0
Curibo(config-if)#no shut

%LINK-5-CHANGED: Interface Serial3/0, changed state to down
Curibo(config-if)#
Curibo(config-if)#
```

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Configurando puertos para el router 3

Puerto fa0/0.

```
Mandril>enable
Password:
Mandril#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Mandril(config)#interface fa0/0
Mandril(config-if)#ip address 192.168.5.1
% Incomplete command.
Mandril(config-if)#ip address 192.168.5.1 255.255.255.0
Mandril(config-if)#no shut

Mandril(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

Mandril(config-if)#
```

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Serial2/0.

```
Mandril>enable
Password:
Mandril#conf t
Enter configuration commands, one per line.  End with CNTL/Z.
Mandril(config)#interface fa0/0
Mandril(config-if)#ip address 192.168.5.1
% Incomplete command.
Mandril(config-if)#ip address 192.168.5.1 255.255.255.0
Mandril(config-if)#no shut

Mandril(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

Mandril(config-if)#exit
Mandril(config)#interface s2/0
Mandril(config-if)#ip address 192.168.4.2 255.255.255.0
Mandril(config-if)#no shut

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

Mandril(config-if)#
```

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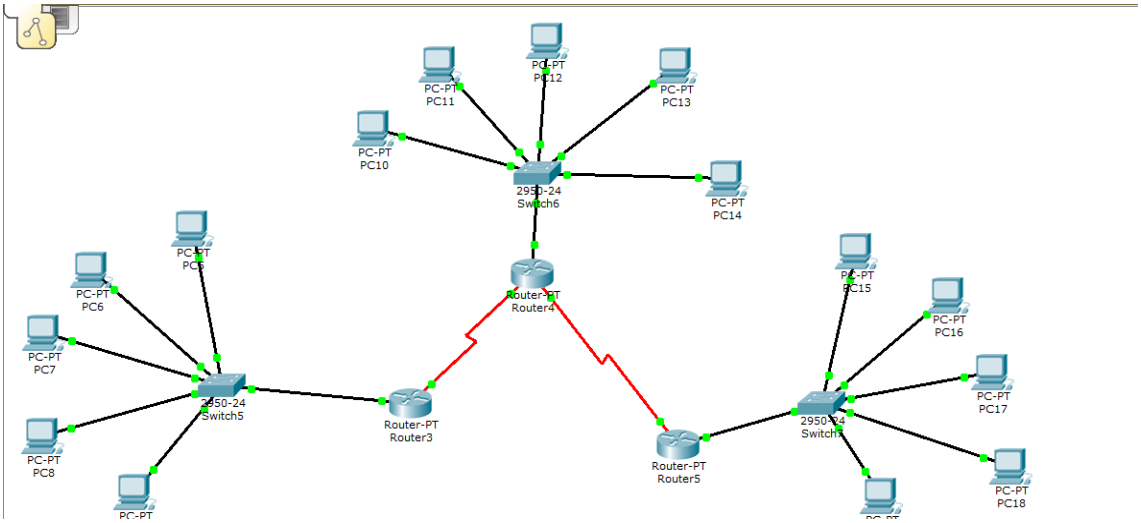
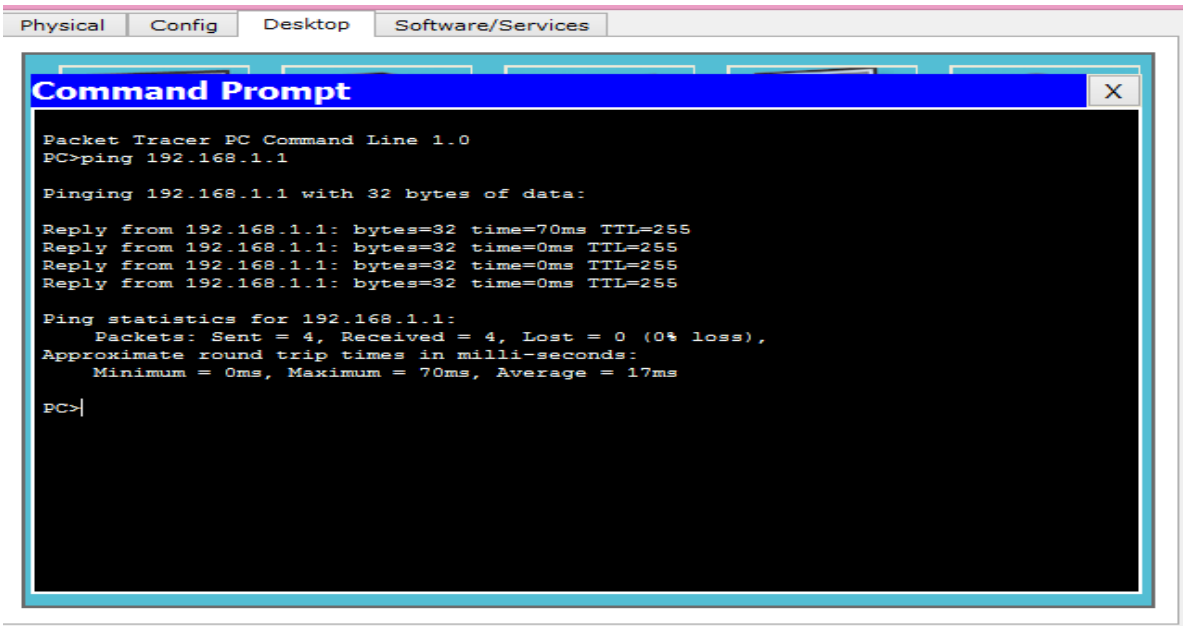
Una vez levantados los puerto seriales y los fast Ethernetlos dispositivos estarán interconectados.

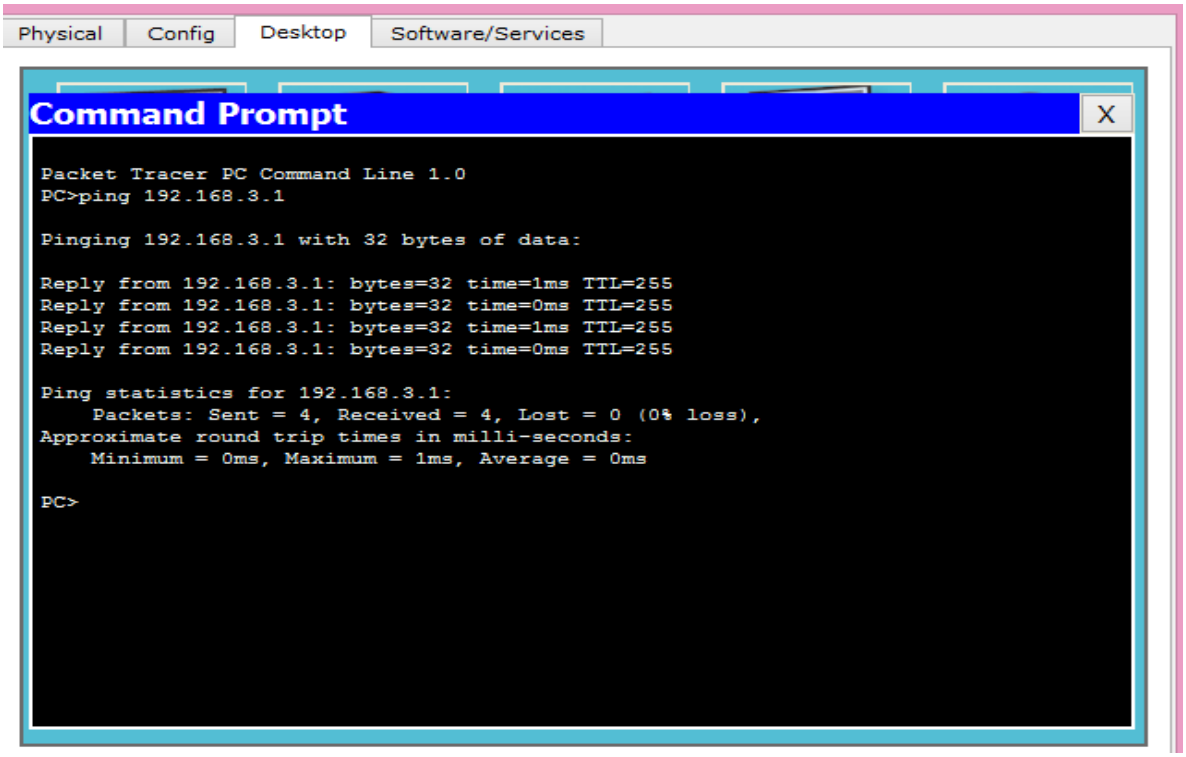


A continuación se procede a comprobar la interconexión entre computadoras, dando ping a cada una de ella de la siguiente

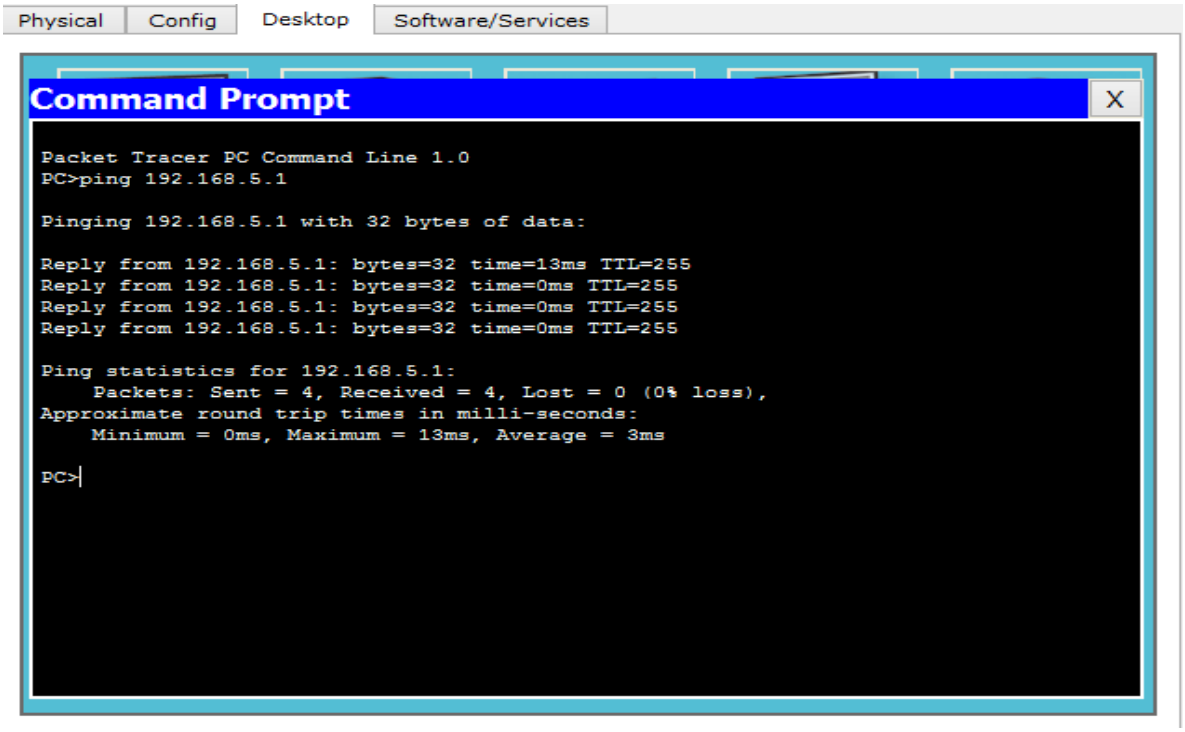
PC1 a USB



Ping de la PC4 a oro.



Ping de la PC7 a paza


Physical
Config
Desktop
Software/Services
Command Prompt
X
Packet Tracer PC Command Line 1.0
PC>ping 192.168.5.1
Pinging 192.168.5.1 with 32 bytes of data:
Reply from 192.168.5.1: bytes=32 time=13ms TTL=255
Reply from 192.168.5.1: bytes=32 time=0ms TTL=255
Reply from 192.168.5.1: bytes=32 time=0ms TTL=255
Reply from 192.168.5.1: bytes=32 time=0ms TTL=255
Ping statistics for 192.168.5.1:
Packets: Sent = 4, Received = 4, Lost = 0 (0% loss),
Approximate round trip times in milli-seconds:
Minimum = 0ms, Maximum = 13ms, Average = 3ms
PC>