**ĐẠI HỌC QUỐC GIA THÀNH PHỐ HỒ CHÍ MINH**
**TRƯỜNG ĐẠI HỌC KHOA HỌC TỰ NHIÊN**

**KHOA CÔNG NGHỆ THÔNG TIN**

**MÔN:THỰC TẬP MẠNG MÁY TÍNH**

## BÁO CÁO BÀI TẬP TUẦN 7

# PPP – Chứng thực PAP CHAP

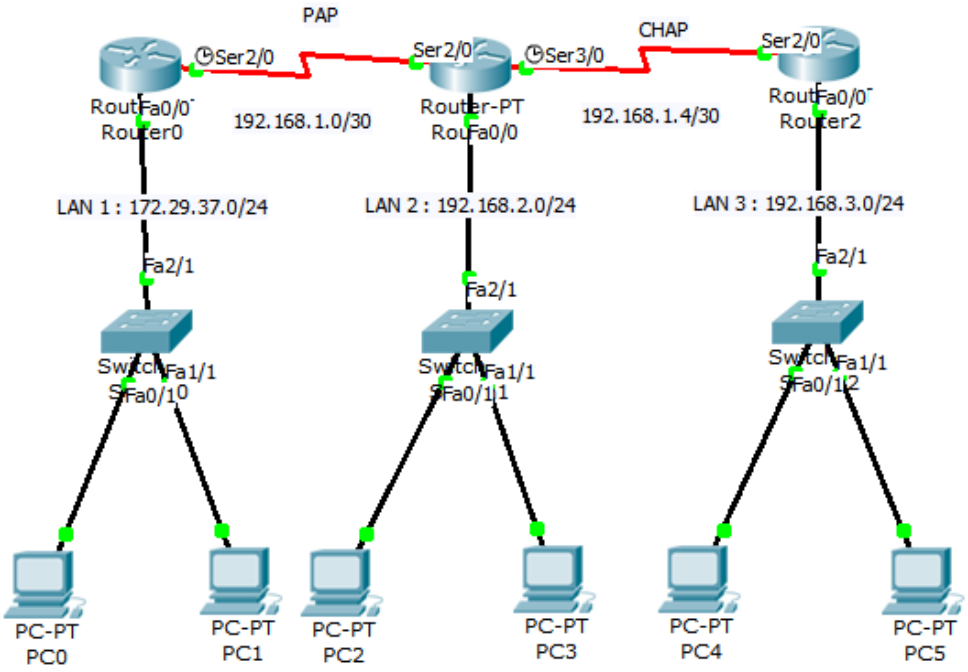
**Lớp: 09HCA**

**Họ tên : Võ Huỳnh Đan**

**MSSV : 0941037**

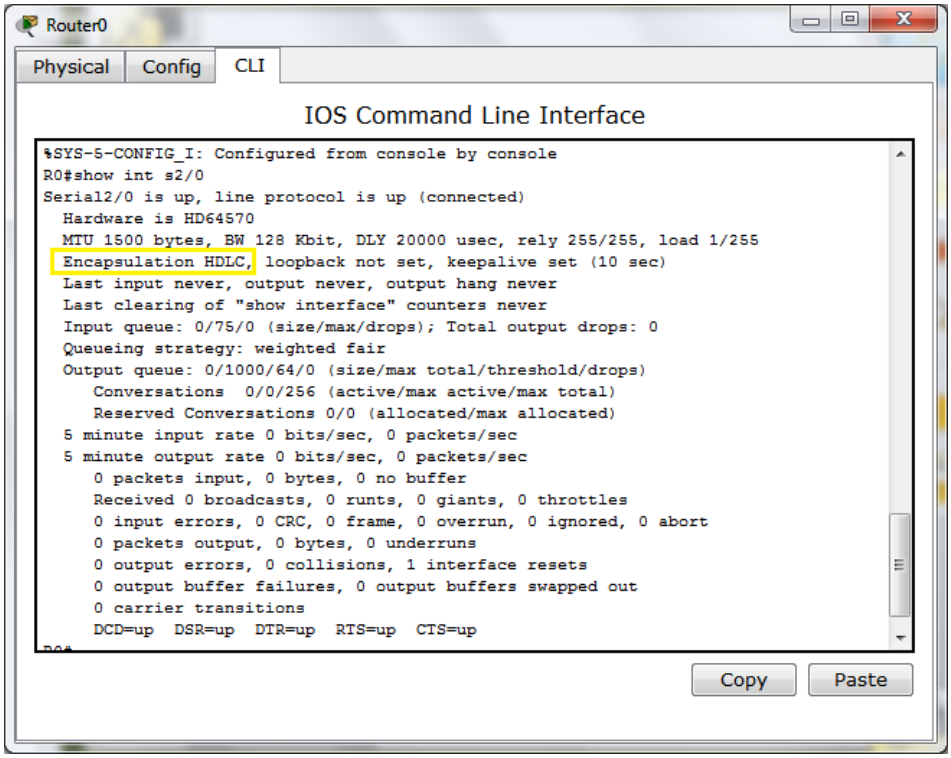
**Bài làm:**

## 1. Mô hình thực hiện :

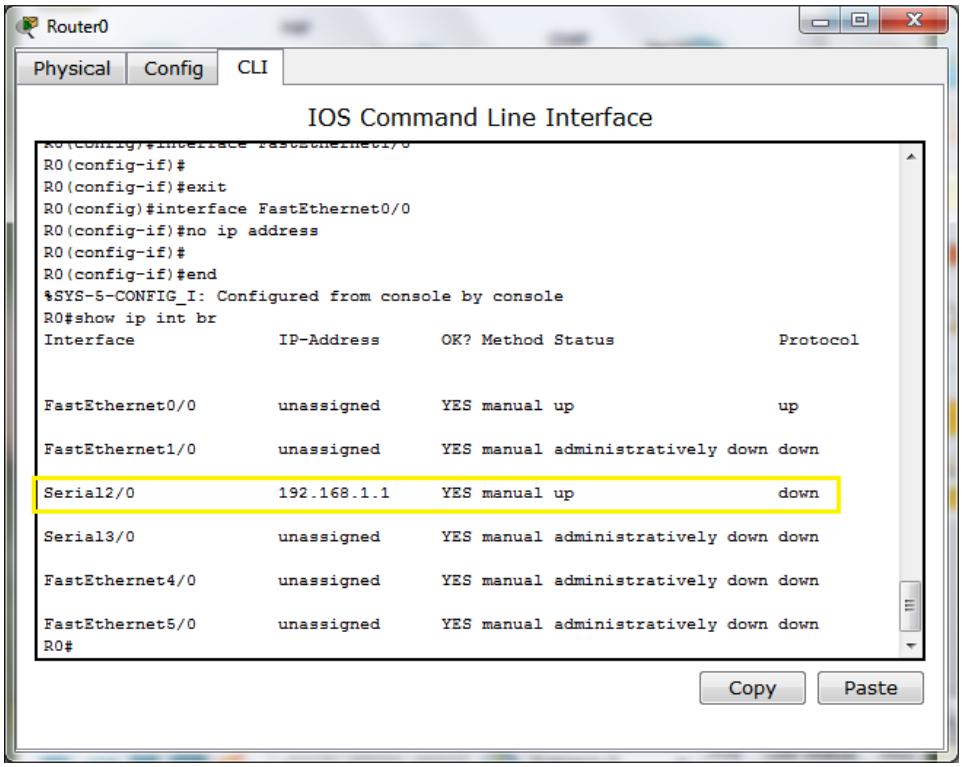



## 2. . HDLC – PPP

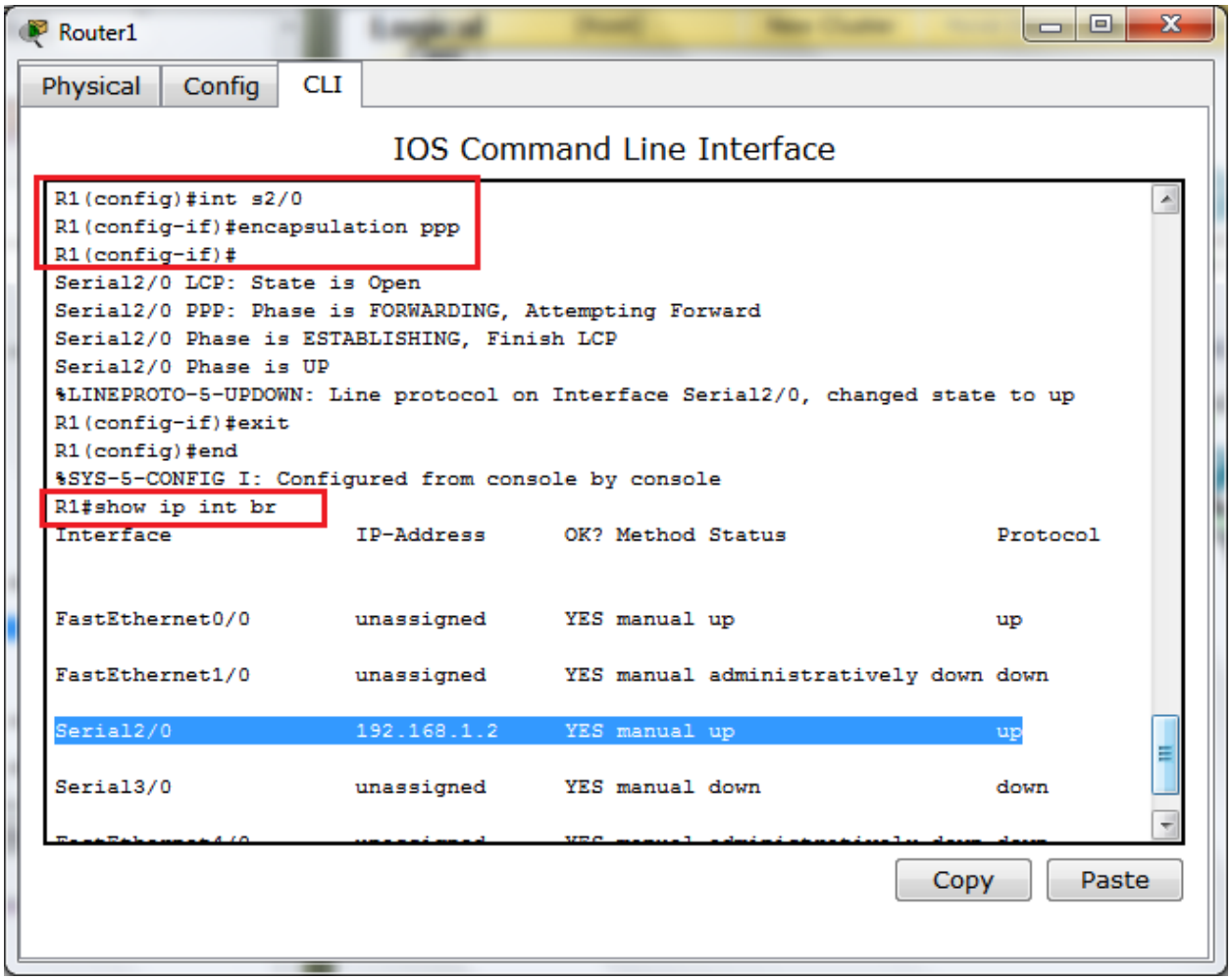
Xem thông tin về cổng Ser2/0




Khi mới chuyển R0 sang PPP



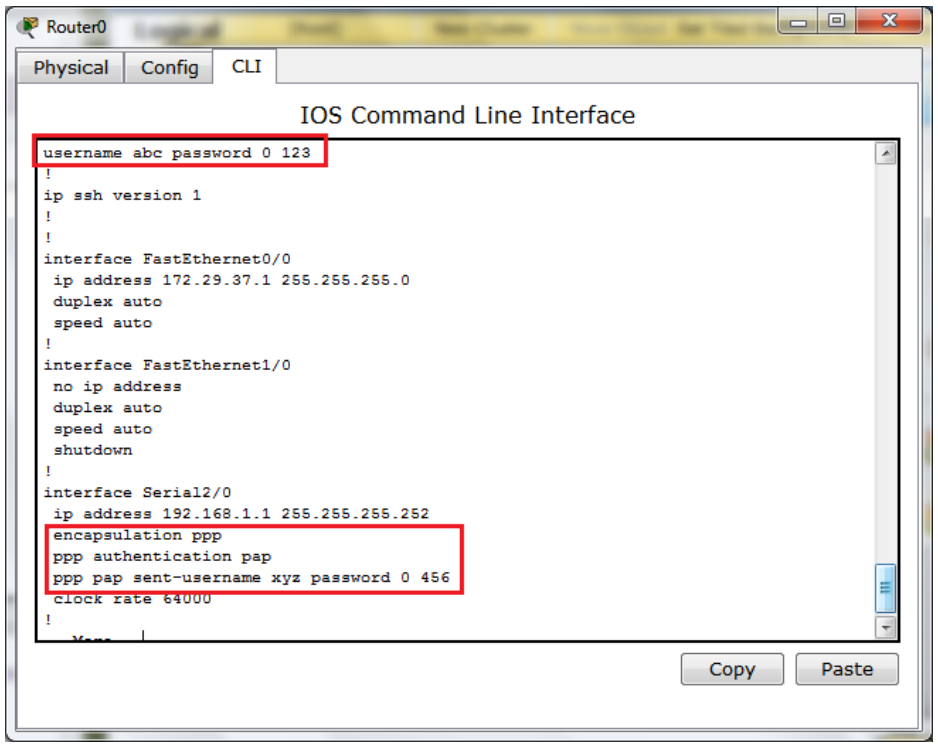
Chuyển R1 sang PPP



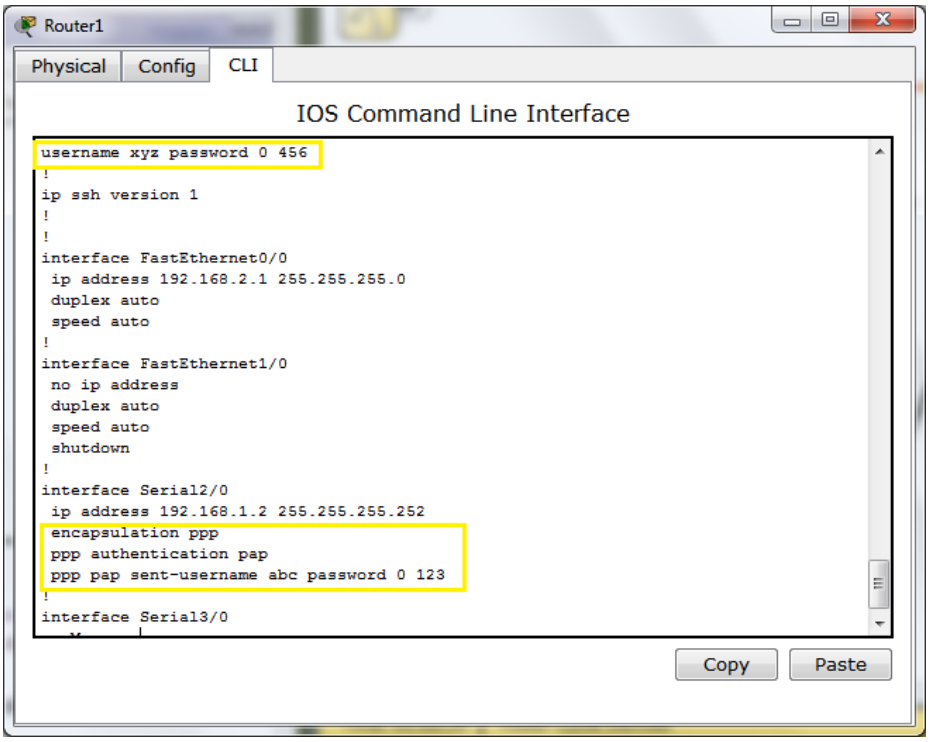

**Khởi tạo username password cho R0 và R1**

**Show running-config**

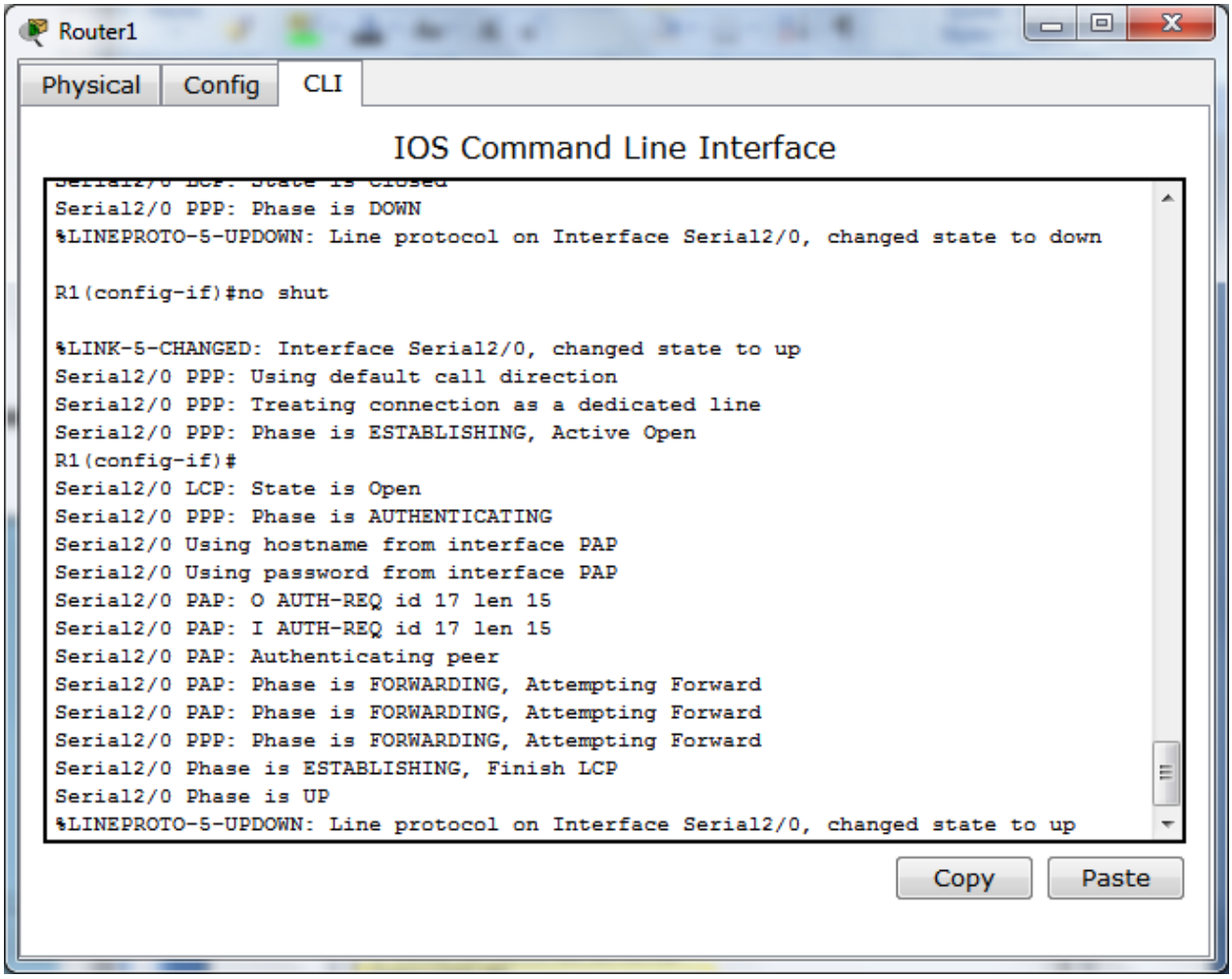
R0


Router0
Physical
Config
CLI
IOS Command Line Interface
username abc password 0 123
!
ip ssh version 1
!
!
interface FastEthernet0/0
 ip address 172.29.37.1 255.255.255.0
 duplex auto
 speed auto
!
interface FastEthernet1/0
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface Serial2/0
 ip address 192.168.1.1 255.255.255.252
 encapsulation ppp
 ppp authentication pap
 ppp pap sent-username xyz password 0 456
 clock rate 64000
!
Copy
Paste

R1

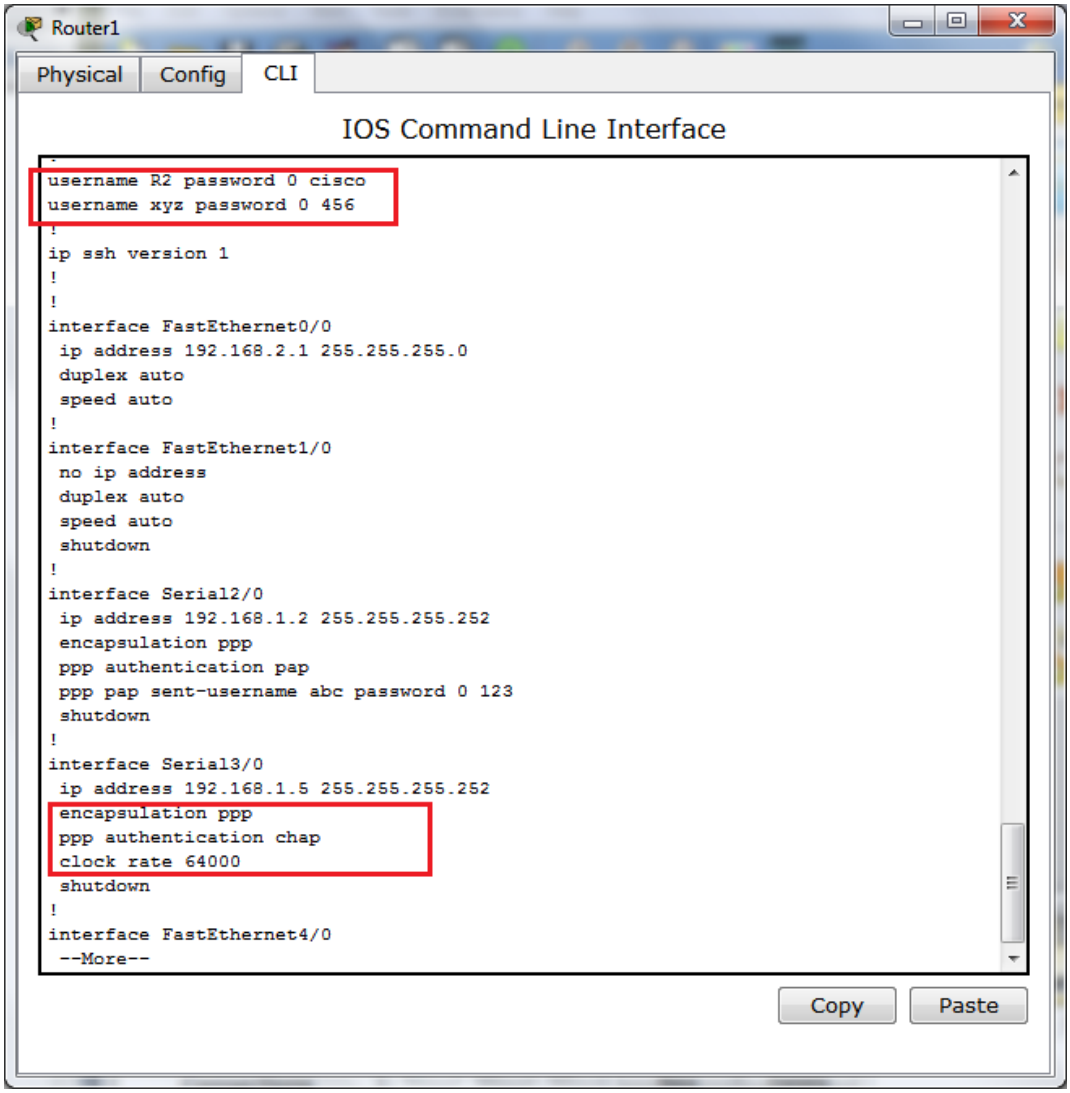

Router1
Physical
Config
CLI
IOS Command Line Interface
username xyz password 0 456
!
ip ssh version 1
!
!
interface FastEthernet0/0
 ip address 192.168.2.1 255.255.255.0
 duplex auto
 speed auto
!
interface FastEthernet1/0
 no ip address
 duplex auto
 speed auto
 shutdown
!
interface Serial2/0
 ip address 192.168.1.2 255.255.255.252
 encapsulation ppp
 ppp authentication pap
 ppp pap sent-username abc password 0 123
!
interface Serial3/0
Copy
Paste

**Thông tin quá trình chứng thực**

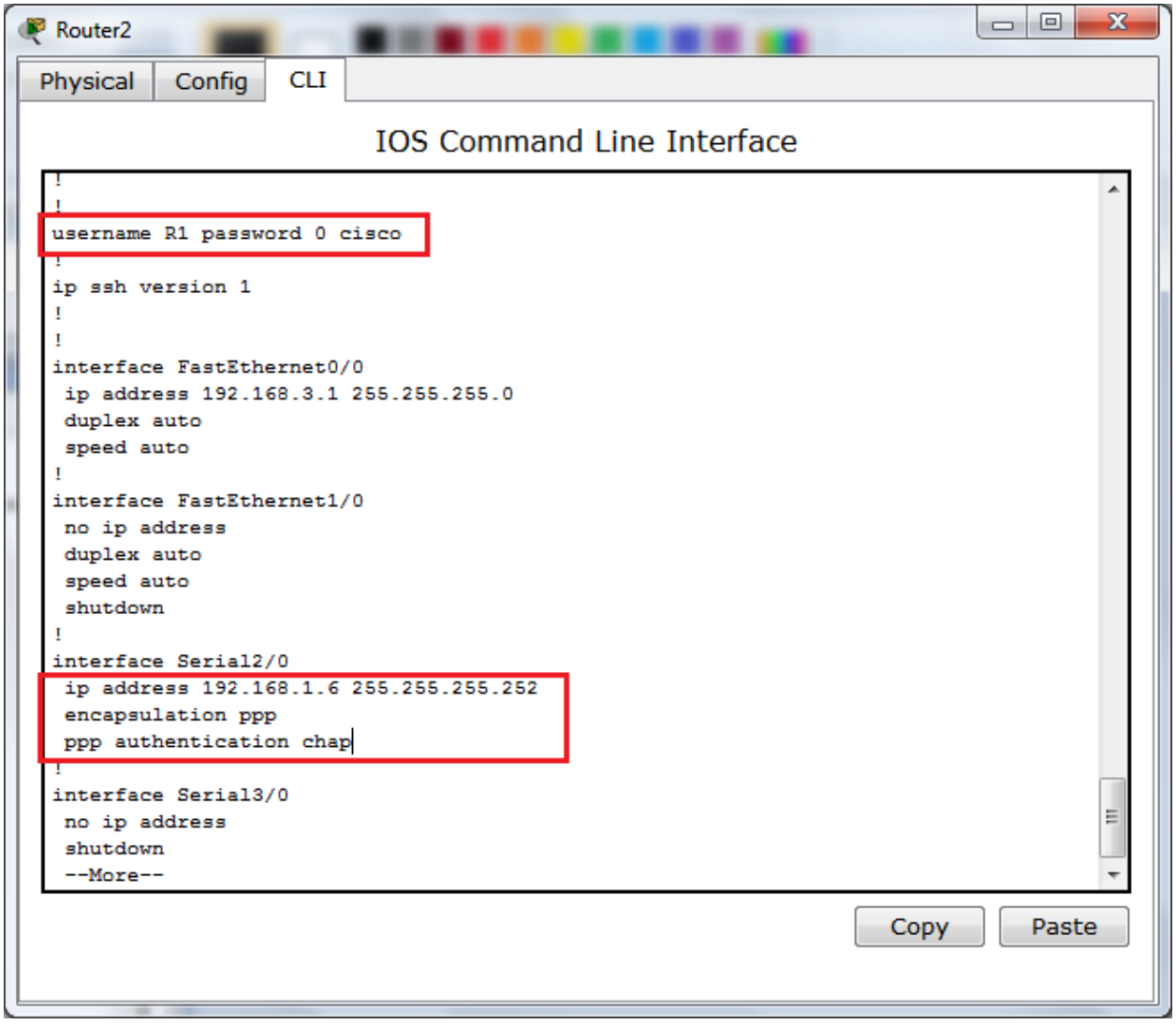



## Chứng thực CHAP

Kết quả cấu hình cho R1

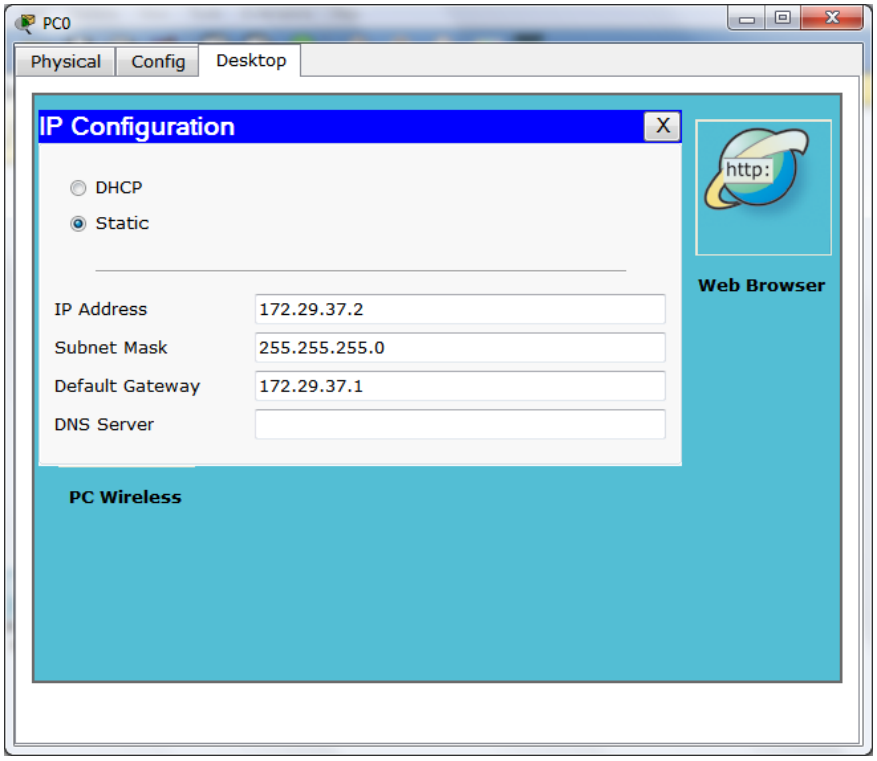


Kết quả cấu hình cho R2

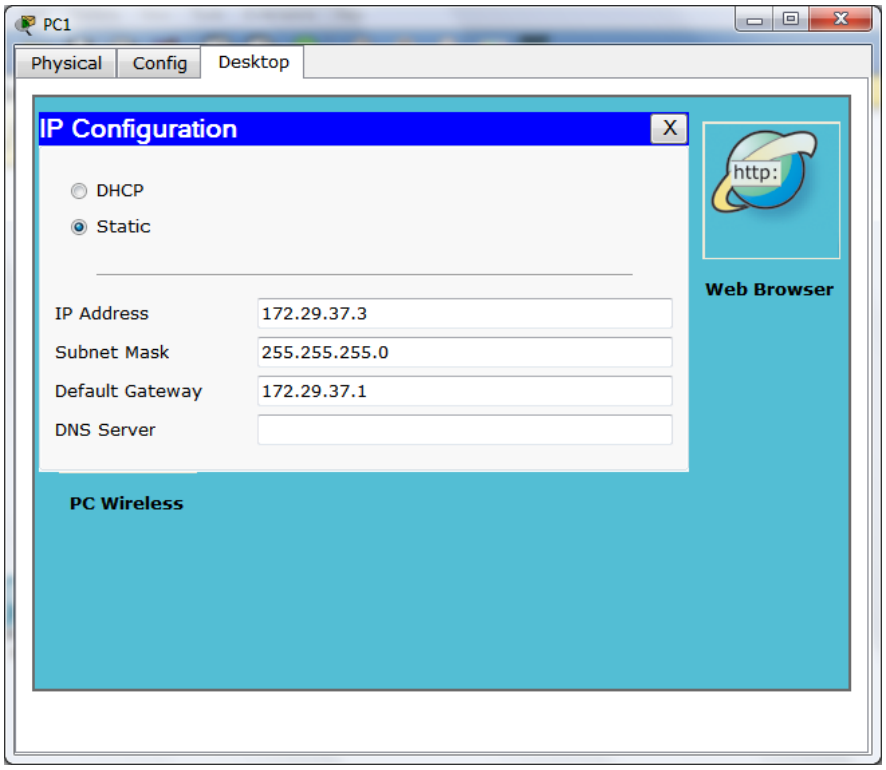



**Cấu hình IP cho các PC và Route như sau :**

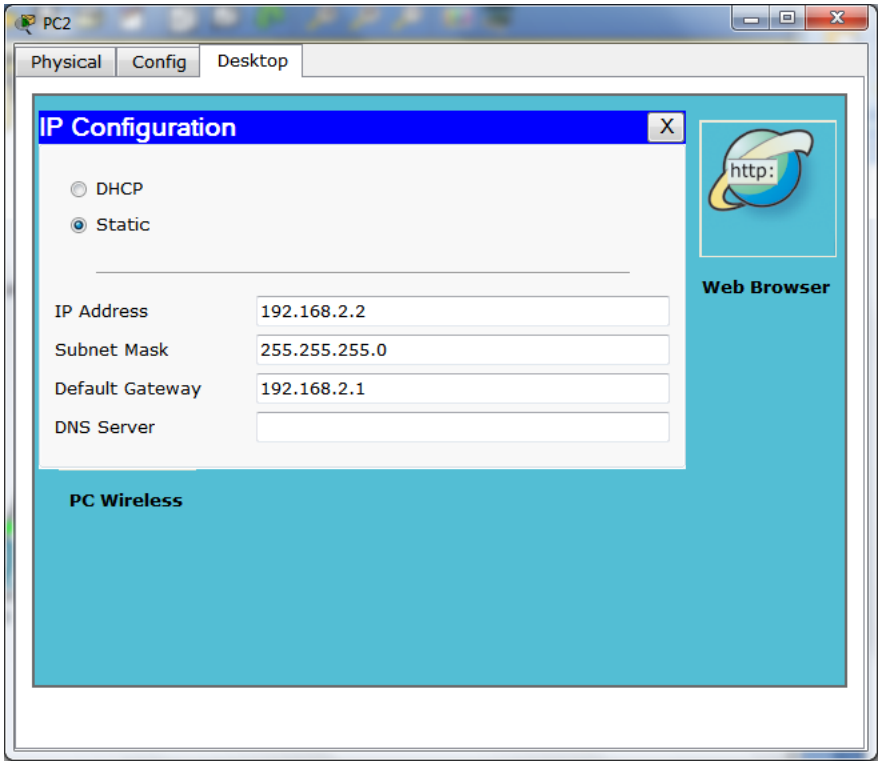
PC0


PC0
Physical
Config
Desktop
IP Configuration
X
DHCP
Static
IP Address
172.29.37.2
Subnet Mask
255.255.255.0
Default Gateway
172.29.37.1
DNS Server
PC Wireless
http:
Web Browser

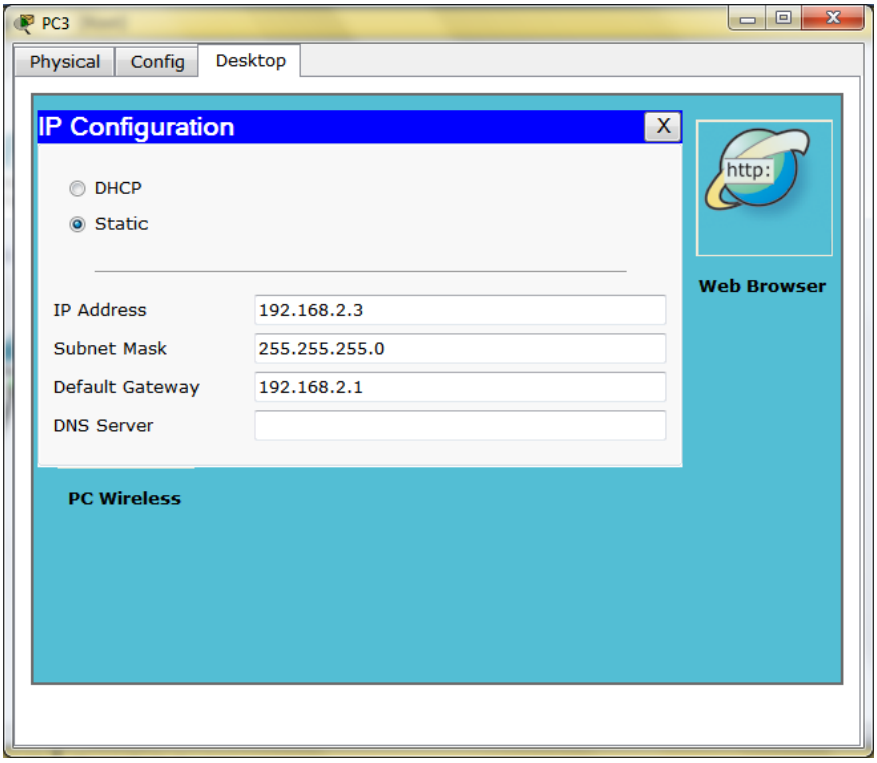
PC1


PC1
Physical
Config
Desktop
IP Configuration
X
DHCP
Static
IP Address
172.29.37.3
Subnet Mask
255.255.255.0
Default Gateway
172.29.37.1
DNS Server
PC Wireless
http:
Web Browser

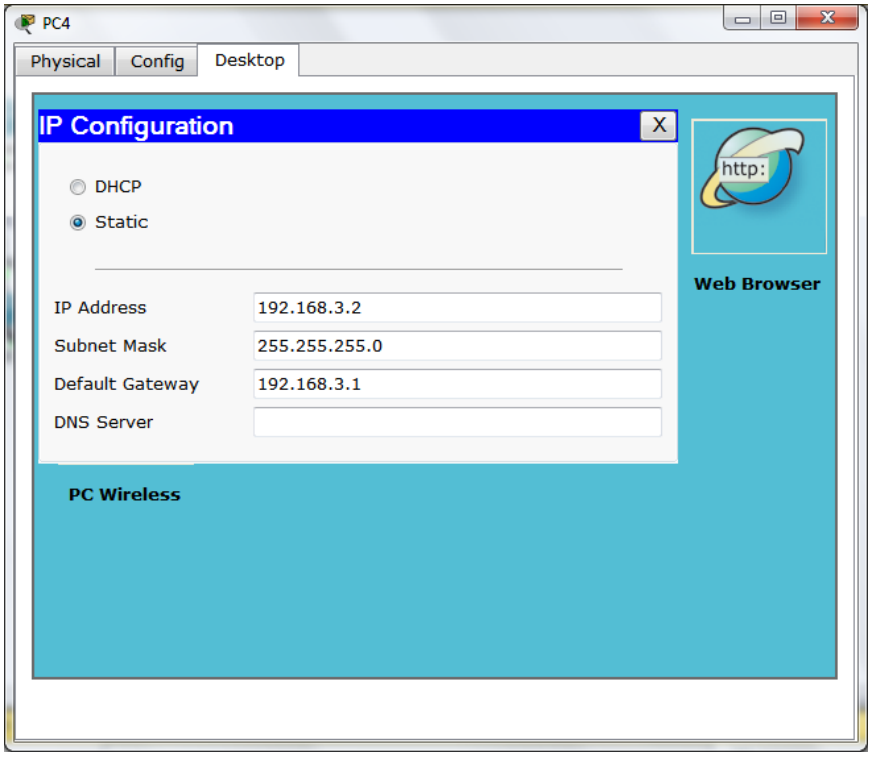
PC2


PC2
Physical
Config
Desktop
IP Configuration
X
DHCP
Static
IP Address
192.168.2.2
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
PC Wireless
http:
Web Browser

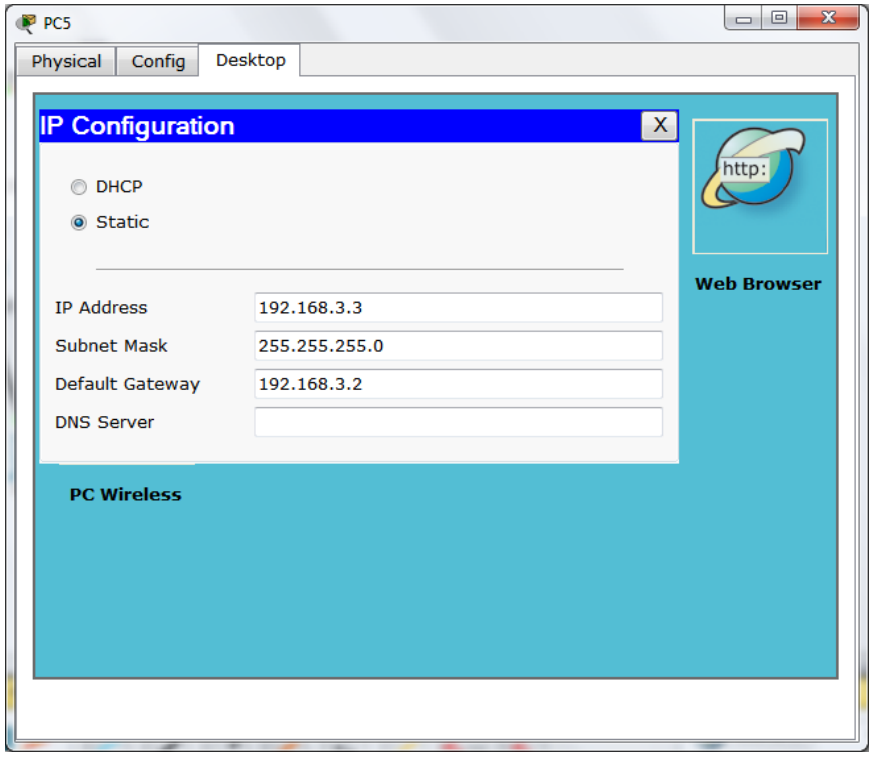
PC3


PC3
Physical
Config
Desktop
IP Configuration
X
DHCP
Static
IP Address
192.168.2.3
Subnet Mask
255.255.255.0
Default Gateway
192.168.2.1
DNS Server
PC Wireless
http:
Web Browser

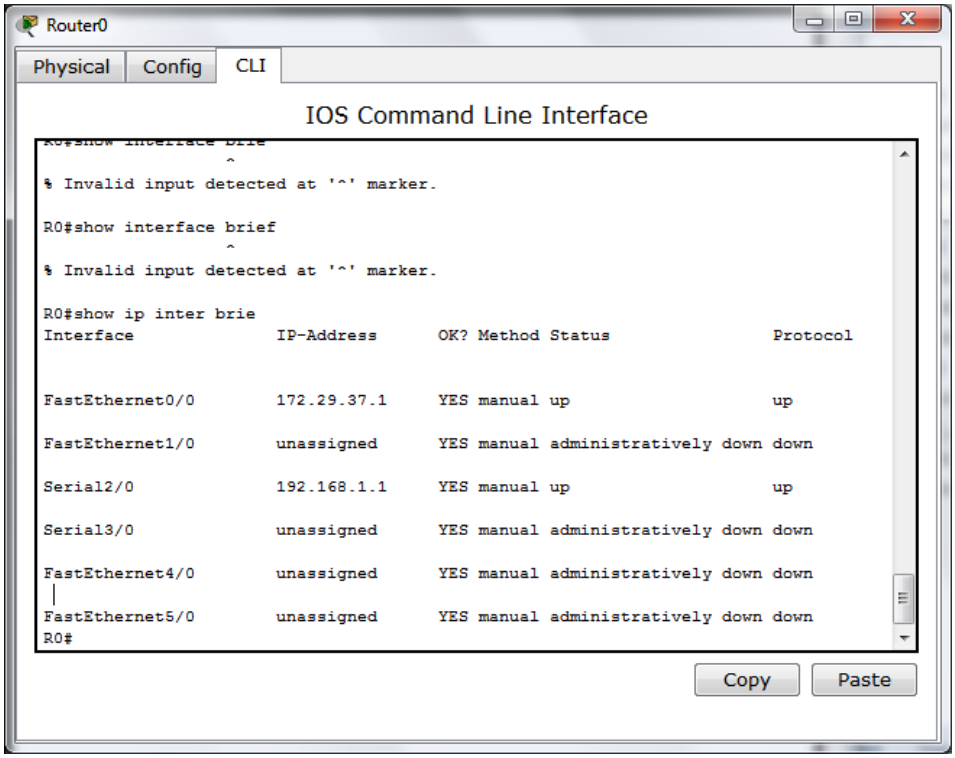
PC4


PC4
Physical
Config
Desktop
IP Configuration
X
DHCP
Static
IP Address
192.168.3.2
Subnet Mask
255.255.255.0
Default Gateway
192.168.3.1
DNS Server
PC Wireless
http:
Web Browser

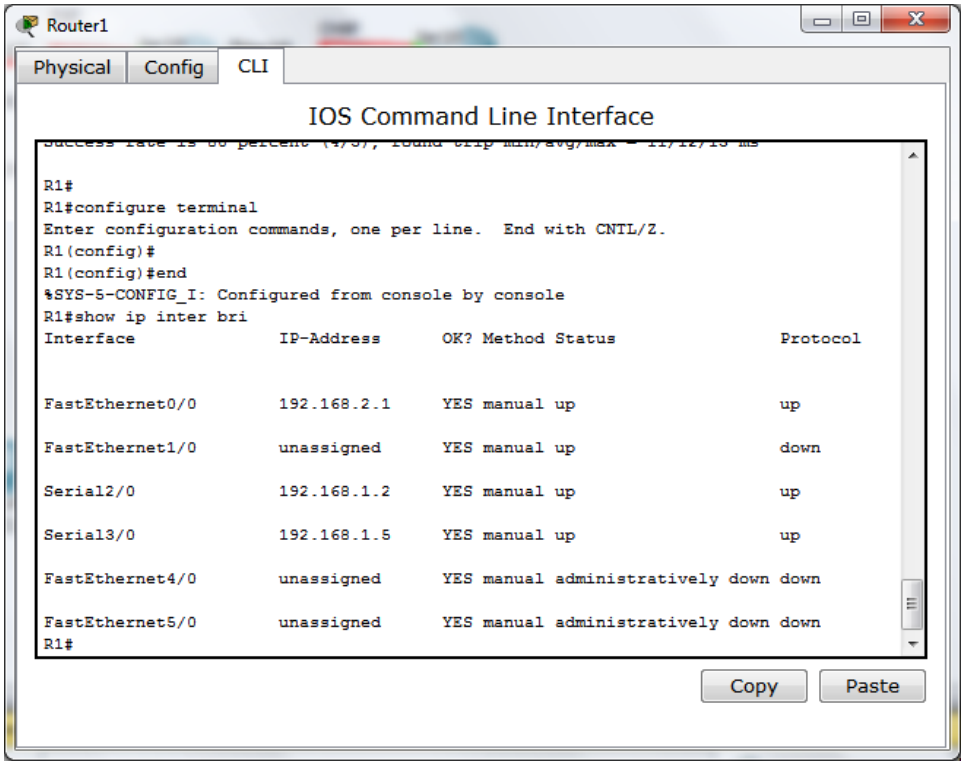
PC5


PC5
Physical
Config
Desktop
IP Configuration
X
DHCP
Static
IP Address
192.168.3.3
Subnet Mask
255.255.255.0
Default Gateway
192.168.3.2
DNS Server
PC Wireless
http:
Web Browser

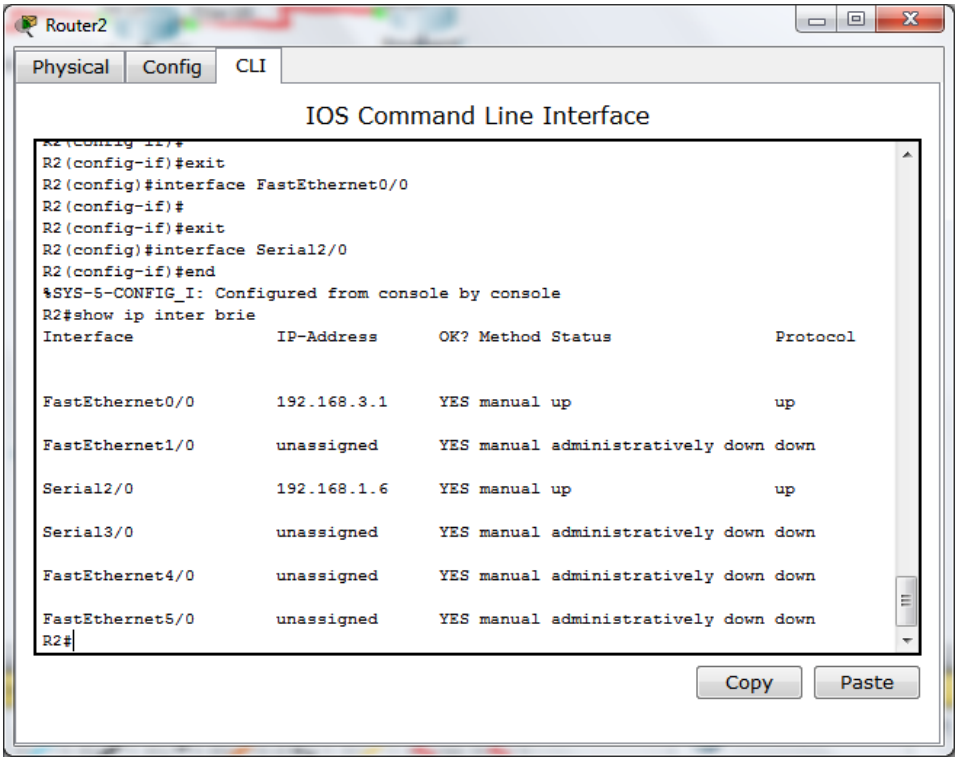
R0


Router0
Physical
Config
CLI
IOS Command Line Interface
% Invalid input detected at '^' marker.
R0#show interface brief
% Invalid input detected at '^' marker.
R0#show ip inter brie
Interface IP-Address OK? Method Status Protocol
FastEthernet0/0 172.29.37.1 YES manual up up
FastEthernet1/0 unassigned YES manual administratively down down
Serial2/0 192.168.1.1 YES manual up up
Serial3/0 unassigned YES manual administratively down down
FastEthernet4/0 unassigned YES manual administratively down down
FastEthernet5/0 unassigned YES manual administratively down down
R0#
Copy
Paste

R1

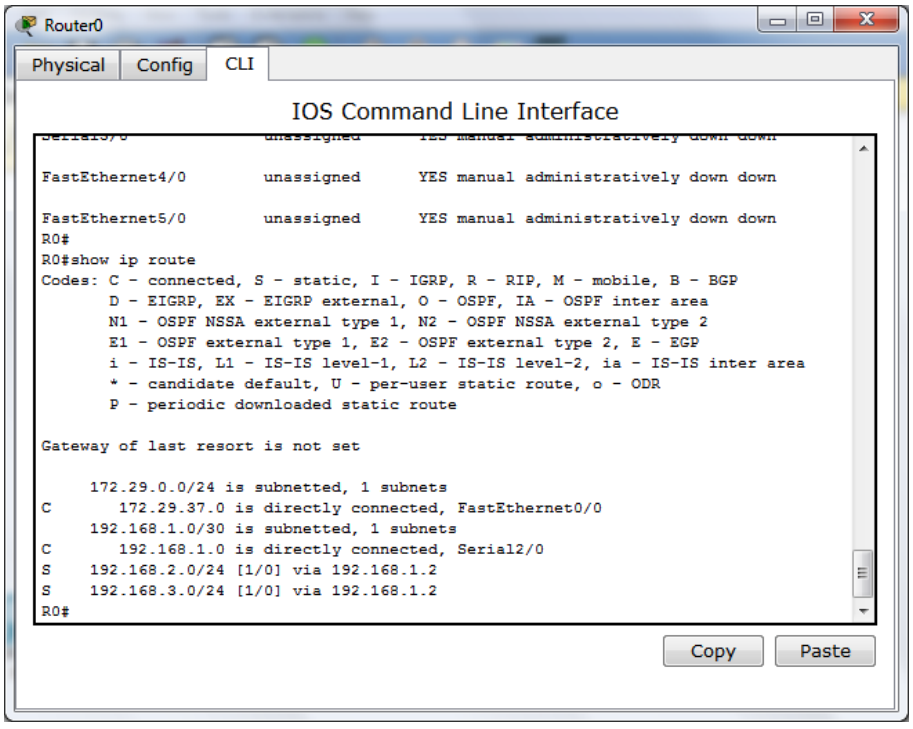

Router1
Physical
Config
CLI
IOS Command Line Interface
R1#
R1#configure terminal
Enter configuration commands, one per line. End with CNTL/Z.
R1(config)#
R1(config)#end
%SYS-5-CONFIG_I: Configured from console by console
R1#show ip inter bri
Interface IP-Address OK? Method Status Protocol
FastEthernet0/0 192.168.2.1 YES manual up up
FastEthernet1/0 unassigned YES manual up down
Serial2/0 192.168.1.2 YES manual up up
Serial3/0 192.168.1.5 YES manual up up
FastEthernet4/0 unassigned YES manual administratively down down
FastEthernet5/0 unassigned YES manual administratively down down
R1#
Copy
Paste

R2

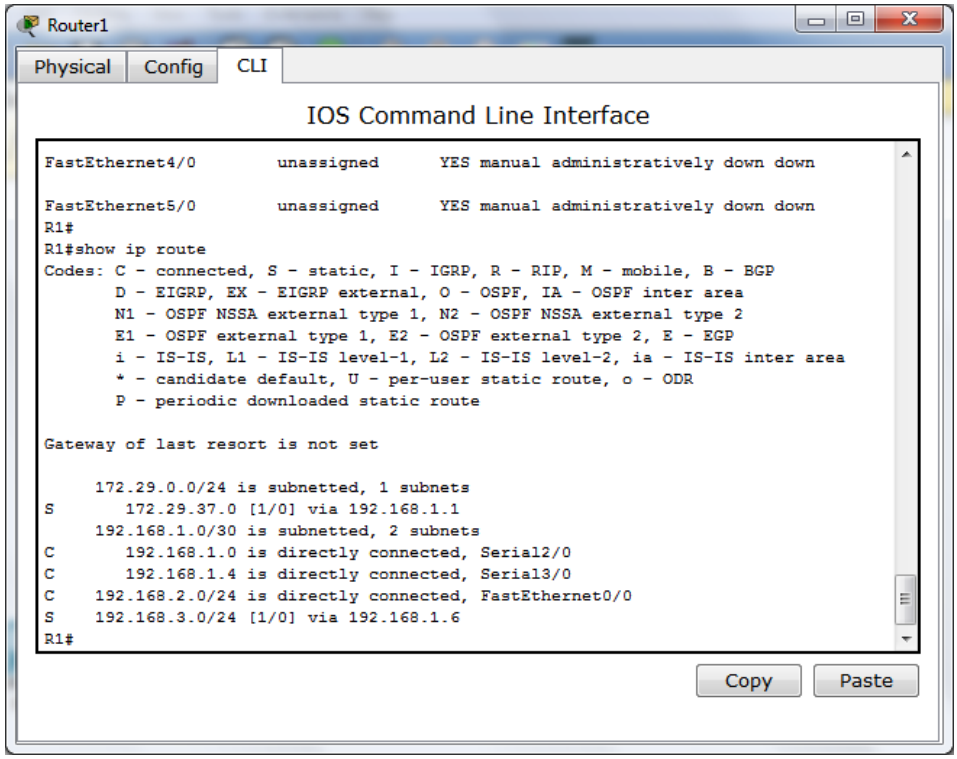



## Cấu hình Static route cho các Router

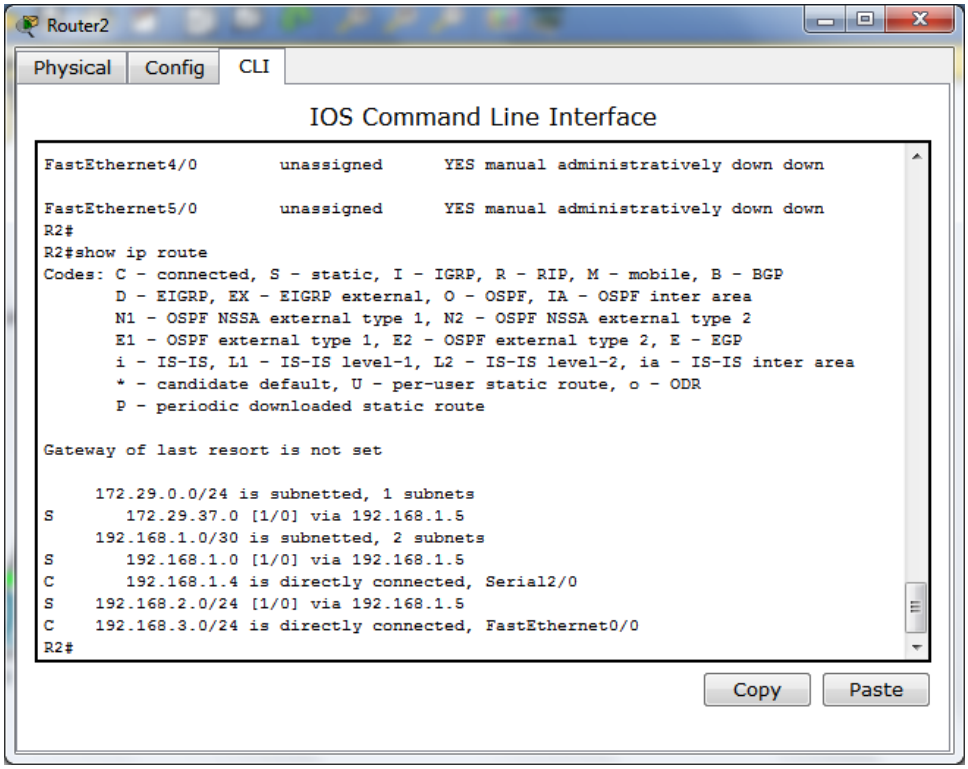
R0



R1


Router1
Physical
Config
CLI
IOS Command Line Interface
FastEthernet4/0 unassigned YES manual administratively down down
FastEthernet5/0 unassigned YES manual administratively down down
R1#
R1#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
172.29.0.0/24 is subnetted, 1 subnets
S 172.29.37.0 [1/0] via 192.168.1.1
192.168.1.0/30 is subnetted, 2 subnets
C 192.168.1.0 is directly connected, Serial2/0
C 192.168.1.4 is directly connected, Serial3/0
C 192.168.2.0/24 is directly connected, FastEthernet0/0
S 192.168.3.0/24 [1/0] via 192.168.1.6
R1#
Copy
Paste

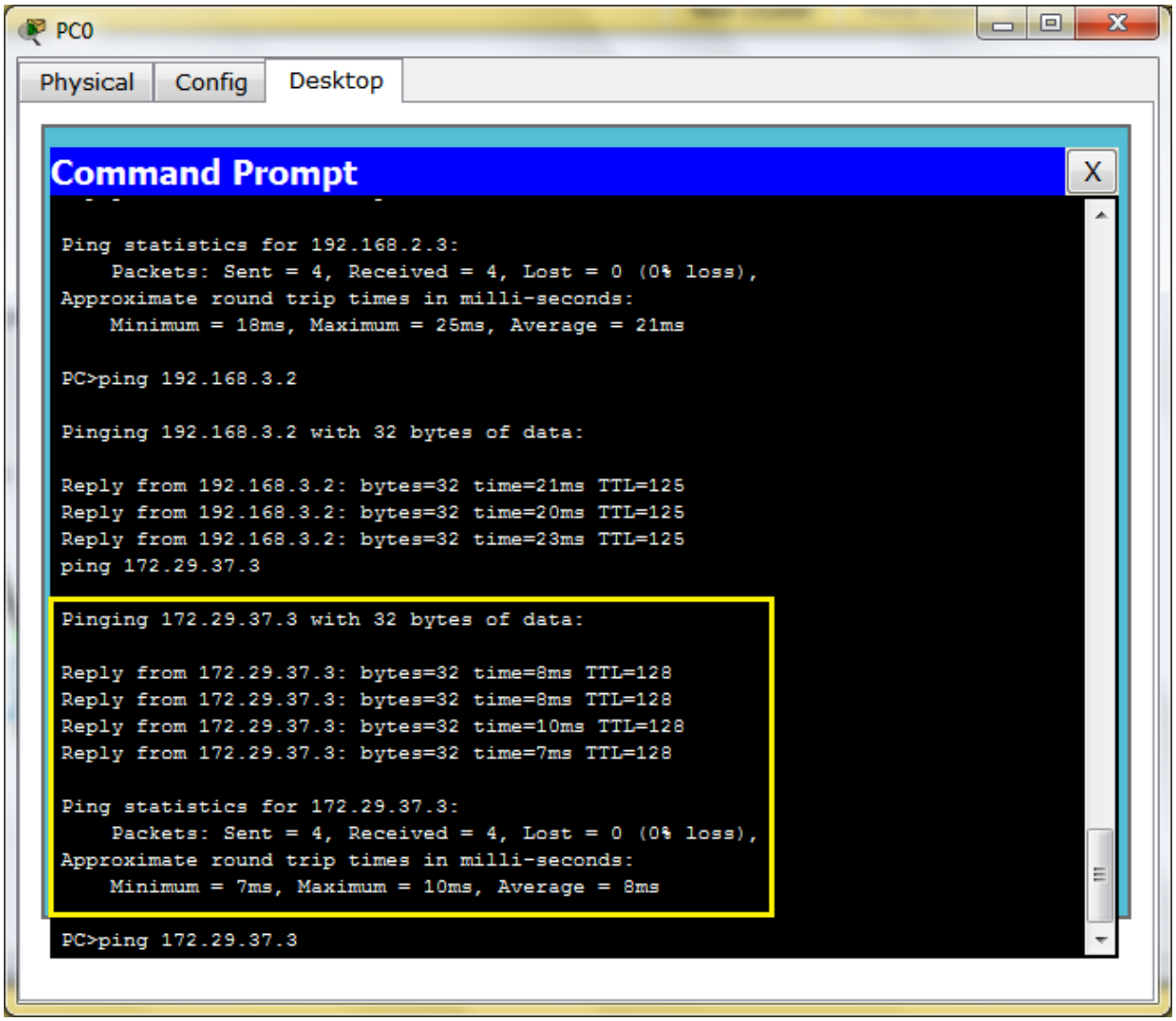
R2


Router2
Physical
Config
CLI
IOS Command Line Interface
FastEthernet4/0 unassigned YES manual administratively down down
FastEthernet5/0 unassigned YES manual administratively down down
R2#
R2#show ip route
Codes: C - connected, S - static, I - IGRP, R - RIP, M - mobile, B - BGP
D - EIGRP, EX - EIGRP external, O - OSPF, IA - OSPF inter area
N1 - OSPF NSSA external type 1, N2 - OSPF NSSA external type 2
E1 - OSPF external type 1, E2 - OSPF external type 2, E - EGP
i - IS-IS, L1 - IS-IS level-1, L2 - IS-IS level-2, ia - IS-IS inter area
* - candidate default, U - per-user static route, o - ODR
P - periodic downloaded static route
Gateway of last resort is not set
172.29.0.0/24 is subnetted, 1 subnets
S 172.29.37.0 [1/0] via 192.168.1.5
192.168.1.0/30 is subnetted, 2 subnets
S 192.168.1.0 [1/0] via 192.168.1.5
C 192.168.1.4 is directly connected, Serial2/0
S 192.168.2.0/24 [1/0] via 192.168.1.5
C 192.168.3.0/24 is directly connected, FastEthernet0/0
R2#
Copy
Paste

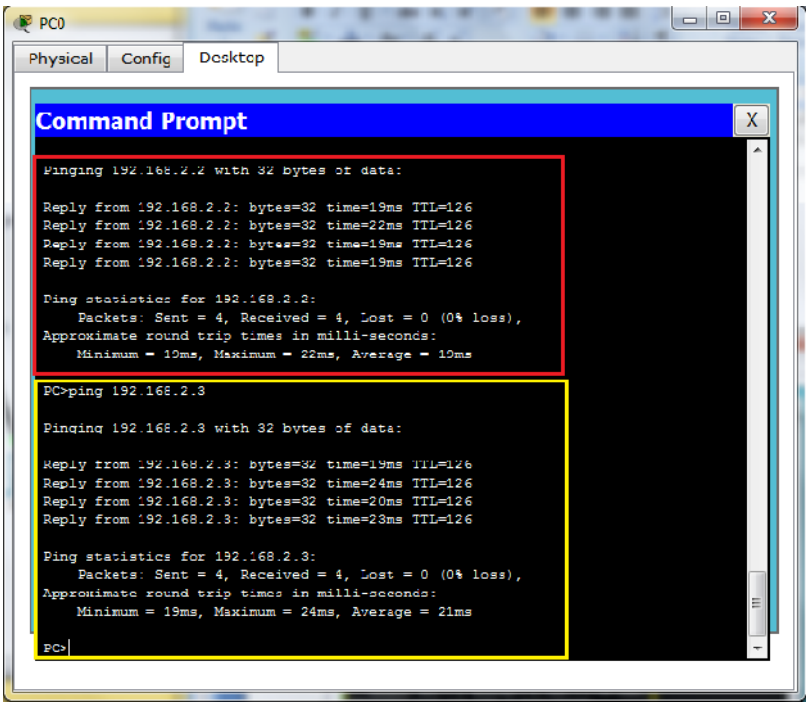
**Sau khi cấu hình thì các PC có thể ping được cho nhau**

**PC0 ping tới các PC khác thành công**

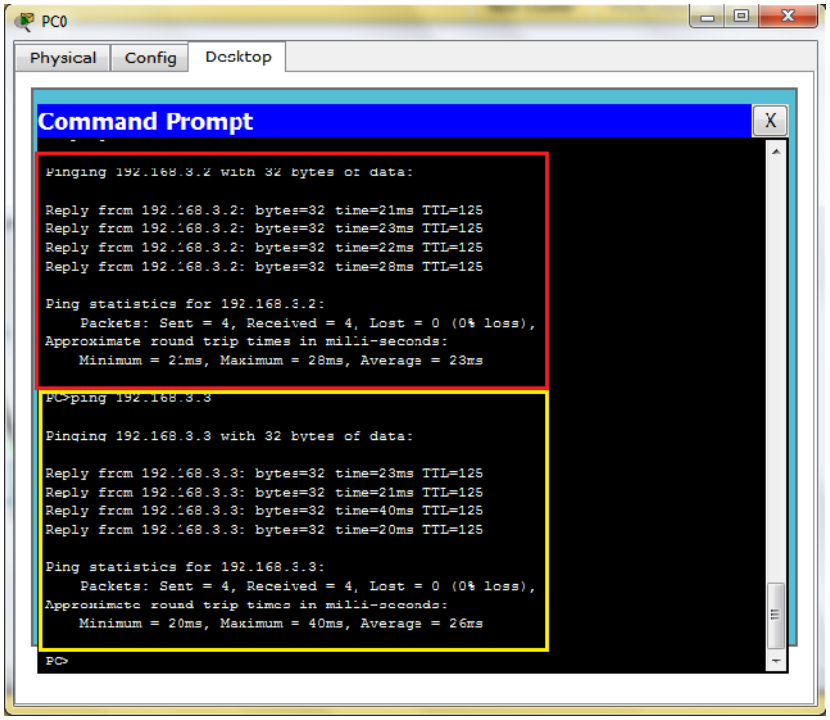
Tới PC1



Tới PC2 và PC3




Tới PC4 và PC5

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