Lệnh:

Router ISP

En

Conf t

Hostname ISP

Int g0/0

No shut

Ip add 8.8.8.1 255.255.255.0

Exit

Int s0/0/0 no shut

Ip add 200.0.0.100 255.255.255.0

Wr

//

En

Conf t

Hostname F1

Vlan 11

Name IT

Exit

Int range f0/1-20

Sw acc vlan 11

Ex

Line console 0 (cam truc tiep, dat mat khau cho cong console)

Password cisco

Login

Ex

Line vty 4 (qua mang)

Password cisco

Login

Ex

// dat vlan

In vlan 1

No shut

Ip add 100.0.0.5 255.255.255.0

En secret cisco // chong chuyen mode user sang quan tri

// Banner motd “xin chao” ???

Ip nat inside : trong toa nha

IP nat ouside: ngoai toa nha

Access-list 10 permmit any

Ip nat inside source list 10 s0/0/0 overload : cho phep toan bo ben trong truy cap ra internet

Ip route 0.0.0.0 0.0.0.0 200.0.0.1

Sho run: kiem tra lai

SwMain

en

conf t

int vlan 1

name inside

no shut

ip add 192.168.9.6 255.255.255.0

ex

vlan 2

name outside

ex

vlan 3

name dmz

ex

vlan 4

name KinhDoanh

ex

vlan 5

name PhanTich

ex

vlan 6

name ThietKe

ex

vlan 7

name LapTrinh

ex

vlan 8

name NhanSu

ex

vlan 9

name KyThuat

ex

vlan 10

name TaiChinh

ex

vlan 11

name ChamSoc

ex

int range f0/1-f4/1

sw mode trunk

switchport trunk encapsulation dot1q

ex

**sw3f:**

en

conf t

vlan 5

name PhanTich

ex

vlan 6

name ThietKe

ex

vlan 7

name LapTrinh

ex

vlan 8

name NhanSu

ex

int f0/1

no shut

sw mode trunk

int range f0/2-f0/4

sw mode acc

sw acc vlan 7

ex

int range f 0/5-f0/8

sw mode acc

sw acc vlan 8

ex

int range f0/9-f0/14

sw mode acc

sw acc vlan 6

ex

int range f0/15-f0/23

sw mode acc

sw acc vlan 5

int f0/1

sw mode trunk

switchport trunk encapsulation dot1q

ex

int f0/24

sw mode trunk

switchport trunk encapsulation dot1q

ex

int vlan 1

no shut

ip add 192.168.9.6 255.255.255.0

ex

**sw1f**

en

conf t

vlan 2

name TaiChinh

ex

vlan 3

name ChamSoc

ex

vlan 7

name LapTrinh

ex

vlan 8

name NhanSu

ex

int f 0/1

sw mode trunk

switchport trunk encapsulation dot1q

ex

int range f 0/2-f0/6

sw mode acc

sw acc vlan 11

ex

int range f 0/7-f0/17

sw mode acc

sw acc vlan 3

ex

int range f 0/18-f0/20

sw mode acc

sw acc vlan 8

ex

int range f 0/21-f0/24

sw mode acc

sw acc vlan 7

int vlan 1

no shut

ip add 192.168.9.4 255.255.255.0

ex

**sw2f**

en

conf t

vlan 4

name KinhDoanh

ex

vlan 5

name PhanTich

ex

vlan 6

name ThietKe

ex

vlan 7

name LapTrinh

ex

int f 0/1

sw mode trunk

switchport trunk encapsulation dot1q

ex

int range f 0/2-f0/12

sw mode acc

sw acc vlan 7

ex

int range f 0/13-f0/16

sw mode acc

sw acc vlan 6

ex

int range f 0/17-f0/20

sw mode acc

sw acc vlan 4

ex

int range f 0/21-f0/24

sw mode acc

sw acc vlan 5

ex

int vlan 1

no shut

ip add 192.168.9.5 255.255.255.0

ex

**SwManager**

Quan ly:

int range f 0/1-f0/3

sw mode acc trunk

Security: de su dung console can phai nhap mat khau:

conf t

line console 0

password cisco

login

ex

line vty 0 4

password cisco

login

ex

int vlan 1

no shut

ip add 192.168.9.3 255.255.255.0

ex

enable secret cisco

end

wr

SwBase

en

int vlan 1

no shut

ip add 192.168.9.2 255.255.255.0

ex

line console 0

password cisco

login

ex

line vty 0 4

password cisco

login

ex

enable secret

end

wr

**Router:**

**COR:**

en

conf t

hostname RC

int g 0/0

no shut

ex

int g 0/0.1

no shut

encapsulation dot1q 1

ip add 192.168.9.1 255.255.255.0

ip nat inside

ex

int g0/0.2

no shut

encapsulation dot1q 2

ip add 192.168.2.1 255.255.255.0

ip nat inside

ex

int g0/0.3

no shut

encapsulation dot1q 3

ip add 192.168.3.1 255.255.255.0

ip nat inside

ex

int g0/0.4

no shut

encapsulation dot1q 4

ip add 192.168.4.1 255.255.255.0

ip nat inside

ex

int g0/0.5

no shut

encapsulation dot1q 5

ip add 192.168.5.1 255.255.255.0

ip nat inside

ex

int g0/0.6

no shut

encapsulation dot1q 6

ip add 192.168.6.1 255.255.255.0

ip nat inside

ex

int g0/0.7

no shut

encapsulation dot1q 7

ip add 192.168.7.1 255.255.255.0

ip nat inside

ex

int g0/0.8

no shut

encapsulation dot1q 8

ip add 192.168.8.1 255.255.255.0

ip nat inside

ex

int g0/0.10

no shut

encapsulation dot1q 10

ip add 192.168.10.1 255.255.255.0

ip nat inside

ex

int s 0/0/0

no shut

clock rate 64000

ip add 200.0.0.100 255.255.255.0

ip nat outside

ex

access-list 10 permit any

ip nat inside source list 10 interface s 0/0/0 overload

ip route 0.0.0.0 0.0.0.0 200.0.0.1

access-list 101 permit icmp any 192.168.1.0 0.0.9.255 echo-reply

int s0/0/0

access-group 101 in

end

wr

Internet

Router:no

en

conf t

hostname ISP

int g0/0

no shut

ip add 8.8.8.1 255.255.255.0

exit

int s 0/0/0

no shut

ip add 200.0.0.1 255.255.255.0

DNS Router:

en

conf t

hostname DHCPserver

int f0/0

ip add 192.168.1.1 255.255.255.0

no shut

ex

int s2/0

ip add 192.168.2.1 255.255.255.0

no shut

ex

ip dhcp pool mang192

network 192.168.1.0 255.255.255.0

default-router 192.168.1.1

dns-server 192.168.1.5

exit

ip dhcp excluded-address 192.168.1.1 192.168.1.10

router rip

network 192.168.1.0

network 192.168.2.0

ex

ip dhcp pool mang193

network 192.168.3.0 255.255.255.0

default-router 192.168.3.1

dns-server 192.168.1.5

exit

ip dhcp excluded-address 192.168.3.1 192.168.3.10

DNSP relay

En

conf t

hostname DHCPrelay

Int s2/0

Ip add 192.168.2.2 255.255.255.0

clock rate 64000

no shut

int f 0/0

ip add 192.168.3.1 255.255.255.0

no shut

ex

router rip

network 192.168.2.0

network 192.168.3.0

ex

int f 0/0

ip helper-address 192.168.2.1

Firewal ASA:

Sw Layer 3

en

conf t

int vlan 1

ip address 192.168.1.1 255.255.255.0

ip helper-address 192.168.9.2

no shut

int vlan 2

ip address 192.168.2.1 255.255.255.0

ip helper-address 192.168.9.2

no shut

int vlan 9

ip address 192.168.9.1 255.255.255.0

no shut

int vlan 20

ip address 172.16.20.2 255.255.255.0

no shut

ex

ip classless

ip routing

ip route 0.0.0.0 0.0.0.0 172.16.1.1

interface range f0/1-f0/3

switchport trunk encapsulation dot1q

switchport mode trunk

wr