**Lệnh kiểm tra:**

**Sh ru**

**Nội dung ôn tập cuối kỳ:**

**1. Định tuyến OSPF**

en

conf t

router ospf 100

network 192.168.1.0 0.0.0.255 area 0

network 192.168.2.0 0.0.0.3 area 0

**1.1. Định tuyến RIP**

en

conf t

ro ri

net 192.168.2.1

net 192.168.4.2

**1.2. Định tuyến EIGRP**

en

conf t

router ospf 100

network 192.168.1.0 0.0.0.255

network 192.168.2.0 0.0.0.3  
no auto-summary

**1.3. Định tuyến GHCP**

Router(config)# ip dhcp pool VLAN\_10

Router(dhcp-config)# network 172.16.10.0 255.255.255.0

Router(dhcp-config)# default-router 172.16.10.1

Router(dhcp-config)# dns-server 172.16.2.10

Router(config)# ip dhcp excluded-address 172.16.10.1 172.16.10.20

Router(dhcp-config)# option 150 ip 172.16.2.20

Router(config)# end

**1.4. Định tuyến NAT**

en

conf t

ip nat inside source list 1 interface se0/1/0 overload

**2. Cấu hình Trunk**

En

Conf t

Int rang g0/1 – 2

Switchport mode trunk

switchport access vlan 10

Switchport trunk native vlan 99

**2.1 Cấu hình VLAN**

Int gig0/1/0

switchport mode access

switchport access vlan 10

**3. Cấu hình port security**

Switch(config)# interface FastEthernet0/1

Switch(config-if)# switchport mode access

Switch(config-if)# switchport port-security

Switch(config-if)# switchport port-security maximum 1

Switch(config-if)# switchport port-security mac-address sticky CAFE.CAFE.8000

**4. Cấu hình AAA**

En

Conf t

Hostname VPN-GW

enable secret 2112998

ip domain-name 2112998.com

crypto key generate rsa

1024

aaa new-model

aaa authentication login default group tacacs+ none

aaa authentication login telnet\_lines group tacacs+

aaa accounting exec default start-stop group tacacs+

tacacs-server host 192.168.99.200 key ciscosecret

line vty 0 4

logging synchronous

login authentication telnet\_lines

**5. Cấu hình VPN**

License boot module c1900 technology-package securityk9

Yes

Wri

Reload

Crypto isakmp policy 10

Authentication pre-share

Encryption 3des

Hash sha

Gpoup 5

Crypto isakmp key cisco address 192.168.3.2

crypto ipsec transform-set VPN-SET esp-3des esp-sha-hmac

crypto map VPN-MAP 10 ipsec-isakmp

match address 100

set transform-set VPN-SET

192.168.1.254

set peer 192.168.1.254

exit

int g0/0/0

crypto map VPN-MAP

**6. Lý thuyết chương IDS/IPS**

**7. Lý thuyết chương layer 2 security**

**8. ACL**

Access-list 100 per ip 192.168.1.0 0.0.0.255 192.168.4.0 0.0.0.255

**9. Tunnel IPv4**

int Tunnel1

Tunnel source g0/0/0

tunnel destination 209.165.201.2

ip add 192.168.99.1 255.255.255.252

no shut

**10. Tunnel IPv6**

**Đề giữa kỳ**

**Câu 1: gắn địa chỉ phụ**

en

conf t

int Gi0/0

no shut

int gi0/0.10

encapsulation dot1Q 10

ip add 172.16.10.1 255.255.255.0

no shut

int gi0/0.20

encapsulation dot1Q 20

ip add 172.16.20.1 255.255.255.0

no shut

int gi0/0.30

encapsulation dot1Q 30

ip add 172.16.30.1 255.255.255.0

no shut

**ROUTER**

ip nat inside source list 1 interface GigabitEthernet0/0/0 overload

ip nat inside source list 100 interface GigabitEthernet0/0/0 overload

ip classless

ip route 10.0.0.0 255.255.255.252 10.0.0.5

ip route 10.0.0.12 255.255.255.252 192.168.99.2

ip route 10.0.0.6 255.255.255.255 GigabitEthernet0/1/0

ip route 172.16.10.0 255.255.255.0 10.0.0.5

ip route 172.16.20.0 255.255.255.0 10.0.0.5

ip route 172.16.30.0 255.255.255.0 10.0.0.5

ip route 192.168.1.0 255.255.255.0 10.0.0.5

ip route 192.168.10.0 255.255.255.0 192.168.99.2

ip route 209.165.200.0 255.255.255.252 GigabitEthernet0/0/0

ip route 0.0.0.0 0.0.0.0 209.165.200.2

**VLAN**

crypto isakmp policy 10

encr 3des

authentication pre-share

group 5

crypto isakmp key antoan address 192.168.1.254

crypto ipsec transform-set VPN-SET esp-3des esp-sha-hmac

crypto map VPN-MAP 10 ipsec-isakmp

set peer 192.168.1.254

set transform-set VPN-SET

match address 100

access-list 100 permit ip 172.16.20.0 0.0.0.255 192.168.10.0 0.0.0.255

access-list 100 permit ip 172.16.30.0 0.0.0.255 192.168.10.0 0.0.0.255

crypto map VPN-MAP 10 ipsec-isakmp

set peer 10.0.0.14

crypto isakmp key antoan address 10.0.0.1

**AAA**

En

Conf t

Hostname VPN-GW

enable secret 2112998

ip domain-name 2112998.com

crypto key generate rsa

1024

aaa new-model

aaa authentication login default group tacacs+ none

aaa authentication login telnet\_lines group tacacs+

aaa accounting exec default start-stop group tacacs+

tacacs-server host 192.168.99.200 key ciscosecret

line vty 0 4

logging synchronous

login authentication telnet\_lines

**NAT**

en

conf t

ip nat inside source list 1 interface g0/0/0 overload

**Tunnel1**

int Tunnel1

Tunnel source g0/0/0

tunnel destination 209.165.201.2

ip add 192.168.99.1 255.255.255.252

no shut

**RIP**

En

Conf t

Router rip

Ver 2

No au

Net 10.0.0.0

Net 10.0.0.4

**Gắn ip helper-address**

int gi0/0/0.10

ip helper-address 192.168.99.99

no shut

int gi0/0/0.20

ip helper-address 192.168.99.99

no shut

int gi0/0/0.70

ip helper-address 192.168.99.99

no shut

int gi0/0/0.88

ip helper-address 192.168.99.99

no shut

**GW**

**Gắn tunnel**

en

conf t

int Tunnel1

ip add 1.1.1.1 255.255.255.252

no shut

int Tunnel2

Tunnel source s0/1/1

tunnel destination 209.165.203.2

ip add 2.2.2.1 255.255.255.252

no shut

en

conf t

int Se0/1/0

no shut

en

conf t

int Se0/1/1

no shut

en

conf t

ro ri

net 10.0.0.2

net 209.165.201.1

default-information originate

**Nha Trang**

en

conf t

int Tunnel2

Tunnel source s0/1/0

tunnel destination 209.165.201.1

ip add 2.2.2.2 255.255.255.252

no shut

en

conf t

ro ri

net 209.165.202.2

net 192.168.4.1

en

conf t

ip nat inside source list 1 interface se0/1/0 overload

**DL01\_VPN\_Gateway**

en

conf t

ro ri

net 192.168.2.1

net 192.168.4.2

**Đà lạt**

en

conf t

ip nat inside source list 1 interface se0/1/0 overload