**Bài tập nhóm**

**Core 1**

Core1#sh ip int bri | ex un

Core1#sh cdp n

conf t

int port-channel 1

no switchport

ip add 10.0.0.1 255.255.255.252

no shut

conf t

int ra g0/1-2

no switchport

channel-group 1 mode on

conf t

port-channel load-balance src-dst-ip

**Core 2**

Core2#sh cdp n

conf t

int port-channel 1

no switchport

ip add 10.0.0.2 255.255.255.252

no shut

conf t

int ra g0/1-2

no switchport

channel-group 1 mode on

conf t

port-channel load-balance src-dst-ip

**ping 10.0.0.2**

**ping 10.0.0.1**

**D1**

sh ip int bri | ex un

conf t

vlan 3

vlan 5

vlan 9

vlan 14

en

conf t

int vlan 3

ip add 192.168.3.2 255.255.255.0

exit

int vlan 5

ip add 192.168.5.2 255.255.255.0

exit

int vlan 9

ip add 192.168.9.2 255.255.255.0

exit

int vlan 14

ip add 192.168.14.2 255.255.255.0

exit

en

conf t

ip dhcp exclude 192.168.3.1 192.168.3.3

ip dhcp exclude 192.168.5.1 192.168.5.3

ip dhcp exclude 192.168.9.1 192.168.9.3

ip dhcp exclude 192.168.14.1 192.168.14.3

en

conf t

ip dhcp pool VLAN3

net 192.168.3.0 255.255.255.0

default 192.168.3.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN5

net 192.168.5.0 255.255.255.0

default 192.168.5.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN9

net 192.168.9.0 255.255.255.0

default 192.168.9.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN14

net 192.168.14.0 255.255.255.0

default 192.168.14.1

domain 2112998.com

dns 8.8.8.8

ex

en

conf t

int vlan 3

standby 3 ip 192.168.3.1

standby 3 prio 120

standby 3 pre

ex

int vlan 9

standby 9 ip 192.168.9.1

standby 9 prio 120

standby 9 pre

ex

int vlan 5

standby 5 ip 192.168.5.1

ex

int vlan 14

standby 14 ip 192.168.14.1

en

conf t

int g0/1

switchport trunk encapsulation dot1q

switchport mode trunk

switchport nonegotiate

int ra fa0/1-3

switchport trunk encapsulation dot1q

switchport mode trunk

switchport nonegotiate

ex

int fa0/5

switchport trunk encapsulation dot1q

switchport mode trunk

switchport nonegotiate

en

conf t

spanning-tree vlan 3,9 root primary

spanning-tree vlan 5,14 root secondary

**D2**

conf t

vlan 3

vlan 5

vlan 9

vlan 14

en

conf t

int vlan 3

ip add 192.168.3.3 255.255.255.0

exit

int vlan 5

ip add 192.168.5.3 255.255.255.0

exit

int vlan 9

ip add 192.168.9.3 255.255.255.0

exit

int vlan 14

ip add 192.168.14.3 255.255.255.0

exit

en

conf t

ip dhcp exclude 192.168.3.1 192.168.3.3

ip dhcp exclude 192.168.5.1 192.168.5.3

ip dhcp exclude 192.168.9.1 192.168.9.3

ip dhcp exclude 192.168.14.1 192.168.14.3

en

conf t

ip dhcp pool VLAN3

net 192.168.3.0 255.255.255.0

default 192.168.3.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN5

net 192.168.5.0 255.255.255.0

default 192.168.5.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN9

net 192.168.9.0 255.255.255.0

default 192.168.9.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN14

net 192.168.14.0 255.255.255.0

default 192.168.14.1

domain 2112998.com

dns 8.8.8.8

ex

en

conf t

int vlan 5

standby 5 ip 192.168.5.1

standby 5 prio 120

standby 5 pre

ex

int vlan 14

standby 14 ip 192.168.14.1

standby 14 prio 120

standby 14 pre

ex

int vlan 3

standby 3 ip 192.168.3.1

int vlan 9

standby 9 ip 192.168.9.1

en

conf t

int g0/1

switchport trunk encapsulation dot1q

switchport mode trunk

switchport nonegotiate

int ra fa0/1-2

switchport trunk encapsulation dot1q

switchport mode trunk

switchport nonegotiate

ex

int ra fa0/4-5

switchport trunk encapsulation dot1q

switchport mode trunk

switchport nonegotiate

en

conf t

spanning-tree vlan 5,14 root primary

spanning-tree vlan 3,9 root secondary

**sh vlan**

**D3**

en

Conf t

vlan 34

vlan 37

vlan 42

vlan 46

en

conf t

int vlan 34

ip add 192.168.34.2 255.255.255.0

exit

int vlan 37

ip add 192.168.37.2 255.255.255.0

exit

int vlan 42

ip add 192.168.42.2 255.255.255.0

exit

int vlan 46

ip add 192.168.46.2 255.255.255.0

exit

en

conf t

ip dhcp exclude 192.168.34.1 192.168.34.3

ip dhcp exclude 192.168.37.1 192.168.37.3

ip dhcp exclude 192.168.42.1 192.168.42.3

ip dhcp exclude 192.168.46.1 192.168.46.3

en

conf t

ip dhcp pool VLAN34

net 192.168.34.0 255.255.255.0

default 192.168.34.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN37

net 192.168.37.0 255.255.255.0

default 192.168.37.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN42

net 192.168.42.0 255.255.255.0

default 192.168.42.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN46

net 192.168.46.0 255.255.255.0

default 192.168.46.1

domain 2112998.com

dns 8.8.8.8

ex

en

conf t

int vlan 34

standby 34 ip 192.168. 34.1

standby 34 prio 120

standby 34 pre

ex

int vlan 42

standby 42 ip 192.168. 42.1

standby 42 prio 120

standby 42 pre

ex

int vlan 37

standby 37 ip 192.168.37.1

int vlan 46

standby 46 ip 192.168.46.1

ex

en

conf t

int g0/1

switchport trunk encapsulation dot1q

switchport mode trunk

switchport nonegotiate

int ra fa0/1-4

switchport trunk encapsulation dot1q

switchport mode trunk

switchport nonegotiate

**en**

**sh stan b**

en

conf t

spanning-tree vlan 34,42 root primary

spanning-tree vlan 37,46 root secondary

**D4**

en

Conf t

vlan 34

vlan 37

vlan 42

vlan 46

en

conf t

int vlan 34

ip add 192.168.34.3 255.255.255.0

exit

int vlan 37

ip add 192.168.37.3 255.255.255.0

exit

int vlan 42

ip add 192.168.42.3 255.255.255.0

exit

int vlan 46

ip add 192.168.46.3 255.255.255.0

exit

en

conf t

ip dhcp exclude 192.168.34.1 192.168.34.3

ip dhcp exclude 192.168.37.1 192.168.37.3

ip dhcp exclude 192.168.42.1 192.168.42.3

ip dhcp exclude 192.168.46.1 192.168.46.3

en

conf t

ip dhcp pool VLAN34

net 192.168.34.0 255.255.255.0

default 192.168.34.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN37

net 192.168.37.0 255.255.255.0

default 192.168.37.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN42

net 192.168.42.0 255.255.255.0

default 192.168.42.1

domain 2112998.com

dns 8.8.8.8

ex

ip dhcp pool VLAN46

net 192.168.46.0 255.255.255.0

default 192.168.46.1

domain 2112998.com

dns 8.8.8.8

ex

en

conf t

int vlan 37

standby 37 ip 192.168. 37.1

standby 37 prio 120

standby 37 pre

ex

int vlan 46

standby 46 ip 192.168. 46.1

standby 46 prio 120

standby 46 pre

ex

int vlan 34

standby 34 ip 192.168.34.1

int vlan 42

standby 42 ip 192.168.42.1

ex

en

conf t

int g0/1

switchport trunk encapsulation dot1q

switchport mode trunk

switchport nonegotiate

en

conf t

int ra fa0/1-4

switchport trunk encapsulation dot1q

switchport mode trunk

switchport nonegotiate

**en**

**sh stan b**

en

conf t

spanning-tree vlan 37,46 root primary

spanning-tree vlan 34,42 root secondary

**A1**

En

Conf t

Vlan 3

Vlan 5

En

Conf t

int ra fa0/1-2

switchport mode trunk

switchport nonegotiate

ex

**A2**

En

Conf t

Vlan 3

Vlan 5

En

Conf t

int ra fa0/1-2

switchport mode trunk

switchport nonegotiate

ex

**A3**

En

Conf t

Vlan 9

Vlan 14

En

Conf t

int ra fa0/1-2

switchport mode trunk

switchport nonegotiate

ex

**A4**

En

Conf t

Vlan 9

Vlan 14

En

Conf t

int ra fa0/1-2

switchport mode trunk

switchport nonegotiate

ex

**A5**

En

Conf t

Vlan 34

Vlan 37

En

Conf t

int ra fa0/1-2

switchport mode trunk

switchport nonegotiate

ex

**A6**

En

Conf t

Vlan 34

Vlan 37

En

Conf t

int ra fa0/1-2

switchport mode trunk

switchport nonegotiate

ex

**A7**

En

Conf t

Vlan 42

Vlan 46

En

Conf t

int ra fa0/1-2

switchport mode trunk

switchport nonegotiate

ex

**A8**

En

Conf t

Vlan 42

Vlan 46

En

Conf t

int ra fa0/1-2

switchport mode trunk

switchport nonegotiate

ex

**DC1**

En

Conf t

Vlan 250

Name DC

En

Conf t

Int fa0/5

No switchport

Ip add 10.0.0.69 255.255.255.252

No shut

**DC2**

En

Conf t

Vlan 250

Name DC

En

Conf t

Int fa0/5

No switchport

Ip add 10.0.0.70 255.255.255.252

No shut

**Data\_switch\_1**

En

Conf t

Vlan 250

Name DC

**Data\_switch\_2**

En

Conf t

Vlan 250

Name DC