

Labo 6.4.1

Packet Tracer - Implement EtherChannel

SWA

Configuration sur SWA :

```
enable
conf t
hostname SWA
exit
conf t
interface range GigabitEthernet0/1 - 2 , FastEthernet0/21 - 22
switchport mode trunk
end
copy running-config startup-config
```

SWB

Configuration sur SWB :

```
enable
conf t
hostname SWB
exit
conf t
```

```
interface range GigabitEthernet0/1 - 2 , FastEthernet0/23 - 24
switchport mode trunk
end
copy running-config startup-config
```

SWC

Configuration sur SWC :

```
enable
conf t
hostname SWC
exit
conf t
interface range FastEthernet0/21 - 24
switchport mode trunk
end
copy running-config startup-config
```

Configuration des EtherChannels (Port Channels):

Configurer un PAgP EtherChannel (Port Channel 1) sur SWA et SWB :

```
conf t
interface range GigabitEthernet0/1 – 2
channel-group 1 mode desirable
end
copy running-config startup-config
```

Configurer un LACP EtherChannel (Port Channel 2) sur SWA et SWC :

```
conf t
interface range FastEthernet0/21 – 22
channel-group 2 mode active
end
copy running-config startup-config
```

Configurer un Backup LACP EtherChannel (Port Channel 3) sur SWB :

```
conf t
interface range FastEthernet0/23 – 24
channel-group 3 mode passive
end
copy running-config startup-config
```

Configurer un Backup LACP EtherChannel (Port Channel 3) sur SWC :

```
conf t
interface range FastEthernet0/23 – 24
channel-group 3 mode active
end
copy running-config startup-config
```

Vérification :

SWA : show etherchannel summary

```
SWA#show etherchannel summary
Flags:  D - down          P - in port-channel
        I - stand-alone  s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port

Number of channel-groups in use: 2
Number of aggregators:          2

Group  Port-channel  Protocol    Ports
-----+-----+-----
+-----+-----+-----
1      Po1 (SU)          PAgP      Gig0/1 (P) Gig0/2 (P)
2      Po2 (SU)          LACP      Fa0/21 (P) Fa0/22 (P)
SWA#
```

SWA : sh int tru

```
SWA#sh int tru
Port      Mode      Encapsulation  Status      Native vlan
Po1       on        802.1q         trunking    1
Po2       on        802.1q         trunking    1

Port      Vlans allowed on trunk
Po1       1-1005
Po2       1-1005

Port      Vlans allowed and active in management domain
Po1       1
Po2       1

Port      Vlans in spanning tree forwarding state and not pruned
Po1       1
Po2       1

SWA#
```

SWB : show etherchannel summary

```
SWB#show etherchannel summary
Flags:  D - down          P - in port-channel
        I - stand-alone  s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port
```

Number of channel-groups in use: 2

Number of aggregators: 2

Group	Port-channel	Protocol	Ports
1	Po1 (SU)	PAgP	Gig0/1 (P) Gig0/2 (P)
3	Po3 (SU)	LACP	Fa0/23 (P) Fa0/24 (P)

SWB#

SWB : sh int tru

```
SWB#sh int tru
Port      Mode      Encapsulation  Status      Native vlan
Po1       on        802.1q         trunking    1
Po3       on        802.1q         trunking    1

Port      Vlans allowed on trunk
Po1       1-1005
Po3       1-1005

Port      Vlans allowed and active in management domain
Po1       1
Po3       1

Port      Vlans in spanning tree forwarding state and not pruned
Po1       1
Po3       1

SWB#
```

SWC : show etherchannel summary

```
SWC#show etherchannel summary
Flags:  D - down          P - in port-channel
        I - stand-alone  s - suspended
        H - Hot-standby (LACP only)
        R - Layer3       S - Layer2
        U - in use       f - failed to allocate aggregator
        u - unsuitable for bundling
        w - waiting to be aggregated
        d - default port
```

Number of channel-groups in use: 2

Number of aggregators: 2

Group	Port-channel	Protocol	Ports
2	Po2 (SU)	LACP	Fa0/21 (P) Fa0/22 (P)
3	Po3 (SU)	LACP	Fa0/23 (P) Fa0/24 (P)

```
SWC#|
```

SWC : sh int tru

```
SWC#sh int tru
Port      Mode      Encapsulation  Status      Native vlan
Po2       on         802.1q         trunking    1
Po3       on         802.1q         trunking    1

Port      Vlans allowed on trunk
Po2       1-1005
Po3       1-1005

Port      Vlans allowed and active in management domain
Po2       1
Po3       1

Port      Vlans in spanning tree forwarding state and not pruned
Po2       none
Po3       1

SWC#|
```