



Mise en place Vlan, SSH, Routage InterVlan, DHCP Snooping, Protocol LACP, Spanning Tree

1. Vlan

```
#Switch 1
```

```
Enable  
Config T
```

```
Vlan 10  
Name Administration
```

```
Vlan 20  
Name SAV
```

```
Vlan 30  
Name Technicien
```

```
Interface range fa0/1-2  
Switchport access vlan 10
```

```
Interface range fa0/3-4  
Switchport access vlan 20
```

```
Interface range fa0/21-24  
Switchport mode trunk
```

```
exit
```

```
#Switch 2
```

```
Enable  
Config T
```

```
Vlan 10  
Name Administration
```

```
Vlan 20  
Name SAV
```

```
Vlan 30  
Name Technicien
```

```
Interface range fa0/1-2  
Switchport access vlan 30
```

```
Interface range fa0/21-24  
Switchport mode trunk
```

```
exit
```

```
#Switch Niv3
```

```
Enable  
Config T
```

```
Vlan 10  
Name Administration
```

```
Vlan 20  
Name SAV
```

```
Vlan 30  
Name Technicien
```

```
Interface range fa0/9-12  
Switchport trunk  
encapsulation dot1q
```

```
exit
```

2. SSH

#Switch 1

```
En
Config T
No ip domain-lookup
Ip domain-name gsb.fr
```

```
Crypto key generate rsa
general-keys modulus
1024
```

```
Ip ssh version 2
Ip ssh time-out 60
Ip ssh authentication-
retries 3
```

```
Line vty 0 4
Login local
Transport input ssh
Exit
Service password-
encryption
Username SW1 password
admin
```

#Switch 2

```
En
Config T
No ip domain-lookup
Ip domain-name gsb.fr
```

```
Crypto
key generate rsa general-
keys modulus 1024
```

```
Ip ssh version 2
Ip ssh time-out 60
Ip ssh authentication-
retries 3
```

```
Line vty 0 4
Login local
Transport input ssh
Exit
Service password-
encryption
Username SW2
password admin
```

#Switch Niv3

```
En
Config T
No ip domain-lookup
Ip domain-name gsb.fr
```

```
Crypto
key generate rsa general-
keys modulus 1024
```

```
Ip ssh version 2
Ip ssh time-out 60
Ip ssh authentication-
retries 3
```

```
Line vty 0 4
Login local
Transport input ssh
Exit
Service password-
encryption
Username SW3
password admin
```

3. Routage intervlan

```
#Switch 3

Interface vlan 10

Ip address 192.168.10.254
255.255.255.0
Exit

Interface vlan 20
Ip address 192.168.20.254
255.255.255.0
Exit

Interface vlan 30
Ip address 192.168.30.254
255.255.255.0
Exit
```

4. DHCP Snooping

```
#Switch 3

Ip dhcp snooping
Interface fa0/1
Ip dhcp snooping trust
```

DHCP Snooping vers le DHCP légitime

5. Protocole LACP

#Switch 1

```
Interface range fa0/21-22
Channel-group 1 mode
active
Channel-protocol lacp
Exit
```

```
Interface range fa0/23-24
Channel-group 3 mode
active
Channel-protocol lacp
Exit
```

```
Interface port-channel 1
Switchport mode trunk
Switchport trunk allowed
vlan 10,20,30
No shutdown
Exit
```

```
Interface port-channel 3
Switchport mode trunk
Switchport trunk allowed vl
an 10,20,30
No shutdown
Exit
```

#Switch 2

```
Interface range fa0/23-24
Channel-group
3 mode active
Channel-protocol lacp
Exit
```

```
Interface range fa0/21-22
Channel-group
2 mode active
Channel-protocol lacp
Exit
```

```
Interface port-channel 3
Switchport mode trunk
Switchport trunk allowed vl
an 10,20,30
No shutdown
Exit
```

```
Interface port-channel 2
Switchport mode trunk
Switchport trunk allowed vl
an 10,20,30
No shutdown
Exit
```

#Switch Niv3

```
Interface range fa0/9-10
Channel-group 1
mode active
Channel-protocol lacp
Exit
```

```
Interface range fa0/11-12
Channel-group
2 mode active
Channel-protocol lacp
Exit
```

```
Interface port-channel 1
Switchport mode trunk
Switchport trunk allowed vl
an 10,20,30
No shutdown
Exit
```

```
Interface port-channel 2
Switchport mode trunk
Switchport trunk allowed vl
an 10,20,30
No shutdown
Exit
```

6. Spanning Tree

```
#Switch 3
```

```
En  
Config T  
Spanning-tree vlan 1  
Spanning-tree vlan 1 root  
primary
```

```
#Switch 2
```

```
En  
Config T  
Spanning-tree vlan 1  
Spanning-tree vlan 1 root  
secondary
```