

# CONFIGURATION DE SWITCH ET ROUTEUR

Configuration réaliser pour le groupe d'AP

**Remi POULET-DENECQUE**

**RomeMedilab**



## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

Configuration Routeur:.....	2
Configuration Switch 1:.....	8
Configuration Switch 2 :.....	16

### Configuration

### Routeur:

```
!  
! Last configuration change at 12:05:07 UTC Mon Jan 20 2025 by rpoulet  
!  
version 15.5  
service timestamps debug datetime msec  
service timestamps log datetime msec  
service password-encryption  
!  
hostname R-RO-001  
!  
boot-start-marker  
boot-end-marker  
  
!  
enable secret 5 $1$PvNR$OVGL3NOYXS76ld12RY6Dd.  
!  
no aaa new-model  
ethernet lmi ce  
!  
no ip domain lookup  
ip domain name romemedilab.fr  
ip cef  
no ipv6 cef  
!  
multilink bundle-name authenticated  
!
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
license udi pid CISCO2921/K9 sn FCZ181370ET
hw-module usb disable
!
username      imoufidi      privilege      15      secret      5
$1$RCRB$fhKnRw6X0CswKyF3ObBcd1
username      tguyot      privilege      15      secret      5
$1$cRzA$zY6lwxSO4koQpamuCOo0j1
username rpoulet privilege 15 secret 5 $1$wJqs$YmTrPjFXSy17FNIMjAPei1
!
redundancy
!
interface Embedded-Service-Engine0/0
no ip address
shutdown
!
interface GigabitEthernet0/0
description vers switch
no ip address
duplex auto
speed auto
!
interface GigabitEthernet0/0.69
description vlan TRASH
encapsulation dot1Q 69
ip address 172.16.32.254 255.255.255.240
ip nat inside
ip virtual-reassembly in
!
interface GigabitEthernet0/0.99
description vlan NATIVE
encapsulation dot1Q 99
ip address 172.16.32.238 255.255.255.240
ip nat inside
ip virtual-reassembly in
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
!  
interface GigabitEthernet0/0.100  
description MANAGEMENT  
encapsulation dot1Q 100  
ip address 172.16.32.14 255.255.255.240  
ip helper-address 172.16.32.42  
ip helper address 172.16.32.43  
ip nat inside  
ip virtual-reassembly in  
!  
interface GigabitEthernet0/0.110  
description ADMINISTRATEUR  
encapsulation dot1Q 110  
ip address 172.16.32.30 255.255.255.240  
ip helper-address 172.16.32.42  
ip helper address 172.16.32.43  
ip nat inside  
ip virtual-reassembly in  
!  
interface GigabitEthernet0/0.120  
description SOLUTION RSX  
encapsulation dot1Q 120  
ip address 172.16.32.46 255.255.255.240  
ip helper-address 172.16.32.42  
ip helper address 172.16.32.43  
ip nat inside  
ip virtual-reassembly in  
!  
interface GigabitEthernet0/0.130  
description CLOUD  
encapsulation dot1Q 130  
ip address 172.16.32.62 255.255.255.240  
ip helper-address 172.16.32.42  
ip helper address 172.16.32.43
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
ip nat inside
ip virtual-reassembly in
!
interface GigabitEthernet0/0.140
description vlan 140
encapsulation dot1Q 140
ip address 172.16.32.78 255.255.255.240
ip helper-address 172.16.32.42
ip helper address 172.16.32.43
ip nat inside
ip virtual-reassembly in
!
interface GigabitEthernet0/0.150
description USERS
encapsulation dot1Q 150
ip address 172.16.32.94 255.255.255.240
ip helper-address 172.16.32.42
ip helper address 172.16.32.43
ip nat inside
ip virtual-reassembly in
!
interface GigabitEthernet0/0.160
description SUPERVISION
encapsulation dot1Q 160
ip address 172.16.32.110 255.255.255.240
ip helper-address 172.16.32.42
ip helper address 172.16.32.43
ip nat inside
ip virtual-reassembly in
!
interface GigabitEthernet0/0.170
description SAUVEGARDE
encapsulation dot1Q 170
ip address 172.16.32.126 255.255.255.240
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
ip helper-address 172.16.32.42
ip helper address 172.16.32.43
ip nat inside
ip virtual-reassembly in
!
interface GigabitEthernet0/0.180
description BDD
encapsulation dot1Q 180
ip address 172.16.32.142 255.255.255.240
ip helper-address 172.16.32.42
ip helper address 172.16.32.43
ip nat inside
ip virtual-reassembly in
!
interface GigabitEthernet0/0.190
description WEB
encapsulation dot1Q 190
ip address 172.16.32.158 255.255.255.240
ip helper-address 172.16.32.42
ip helper address 172.16.32.43
ip nat inside
ip virtual-reassembly in
!
interface GigabitEthernet0/0.200
description GESTION
encapsulation dot1Q 200
ip address 172.16.32.174 255.255.255.240
ip helper-address 172.16.32.42
ip helper address 172.16.32.43
ip nat inside
ip virtual-reassembly in
!
interface GigabitEthernet0/0.210
description RESSOURCES
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
encapsulation dot1Q 210
ip address 172.16.32.190 255.255.255.240
ip helper-address 172.16.32.42
ip helper address 172.16.32.43
ip nat inside
ip virtual-reassembly in
!
interface GigabitEthernet0/1
description vers internet
ip address dhcp
ip nat outside
ip virtual-reassembly in
duplex auto
speed auto
!
interface GigabitEthernet0/2
no ip address
shutdown
duplex auto
speed auto
!
ip forward-protocol nd
!
no ip http server
no ip http secure-server
!
ip nat inside source list 1 interface GigabitEthernet0/1 overload
ip ssh time-out 60
ip ssh version 2
!
access-list 1 permit 172.16.32.0 0.0.0.255
!
control-plane
!
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
banner motd Acces interdit aux personnes non autorisees
!  
line con 0  
login local  
line aux 0  
line 2  
no activation-character  
no exec  
transport preferred none  
transport output pad telnet rlogin lapb-ta mop udptn v120 ssh  
stopbits 1  
line vty 0 1  
login local  
transport input ssh  
line vty 2 4  
login  
transport input none  
!  
scheduler allocate 20000 1000  
!  
end
```

## Configuration Switch 1:

```
!  
! Last configuration change at 03:03:04 UTC Mon Apr 4 2025 by rpoulet  
! NVRAM config last updated at 02:42:36 UTC Mon Apr 4 2025 by rpoulet  
!  
version 15.2  
no service pad  
service timestamps debug datetime msec  
service timestamps log datetime msec  
service password-encryption  
!  
hostname SW-RO-01  
!  
boot-start-marker  
boot-end-marker  
!  
enable secret 5 $1$6SNs$nOaFGbwqZQvcAYbxsB4hj1  
!  
username      imoufidi      privilege      15      secret      5  
$1$JL4D$Q96bnZ05Je0uXx/WWTikp.  
username      tguyot        privilege      15      secret      5  
$1$BIpS$7e9.EVBNmd7Rv3HPNxlw.  
username      rpoulet       privilege      15      secret      5  
$1$sXf9$H8noCN8sPkg/2E3sGLnZq0  
no aaa new-model  
switch 1 provision ws-c2960s-24ts-l  
!  
no ip domain-lookup  
ip domain-name romemedilab.fr  
!  
crypto pki trustpoint TP-self-signed-513648384  
enrollment selfsigned
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
subject-name cn=IOS-Self-Signed-Certificate-513648384
revocation-check none
rsakeypair TP-self-signed-513648384
!
!
crypto pki certificate chain TP-self-signed-513648384
certificate self-signed 01
  30820229 30820192 A0030201 02020101 300D0609 2A864886 F70D0101
05050030
  30312E30 2C060355 04031325 494F532D 53656C66 2D536967 6E65642D
43657274
  69666963 6174652D 35313336 34383338 34301E17 0D313130 33333030
31323832
  385A170D 32303031 30313030 30303030 5A303031 2E302C06 03550403
1325494F
    532D5365 6C662D53 69676E65 642D4365 72746966 69636174
652D3531 33363438
    33383430 819F300D 06092A86 4886F70D 01010105 0003818D 00308189
02818100
    885FF7A1 74FA43A1 211DDBAC EC10E16D 7FA226A7 76CDB2BB
386EF397 7E735357
    5D07E1D6 066C72B5 D4875F56 6623984F 08FFCC3F 1D8D30C1
A7CDC5F7 3FF6CD1E
    F38D51BB 47E17ACD 54283B67 0E0AE777 C2C7A07B BF1DB4B7
E34D9BE4 4B600EF9
    79B9901E E8536BFA 365C40F5 822B3E26 D9817A62 4CF6759E B5F10505
1D3926B9
    02030100 01A35330 51300F06 03551D13 0101FF04 05300301 01FF301F
0603551D
    23041830 16801434 C0831668 CEC9E847 A06A202D 8F6F5973 11B93E30
1D060355
    1D0E0416 041434C0 831668CE C9E847A0 6A202D8F 6F597311
B93E300D 06092A86
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
4886F70D 01010505 00038181 0029C184 1D6924C7 150721A2 49976FBE  
7C90E6D4
```

```
    F9EE12F9  5F421D27  8A8AC0DB  4AB3F424  AB7FCEA3  65EE237E  
30BB46D2 41CAF728
```

```
    9D9B51A8  3D701D8F  47829AEA  00ECB50F  AE22AE13  BDCDED6F  
0CD0748D AA72E15C
```

```
    B47FD039  F6103F90  7582FC08  E41711B5  C4865685  2E4B92FC  
55CBC4CB 6ACB14D2
```

```
4820EEAE DA7951AE A891BD9E 1D
```

```
quit
```

```
spanning-tree mode pvst
```

```
spanning-tree extend system-id
```

```
errdisable recovery cause udd
```

```
errdisable recovery cause bpduguard
```

```
errdisable recovery cause security-violation
```

```
errdisable recovery cause channel-misconfig
```

```
errdisable recovery cause pagp-flap
```

```
errdisable recovery cause dtp-flap
```

```
errdisable recovery cause link-flap
```

```
errdisable recovery cause sfp-config-mismatch
```

```
errdisable recovery cause gbic-invalid
```

```
errdisable recovery cause psecure-violation
```

```
errdisable recovery cause port-mode-failure
```

```
errdisable recovery cause dhcp-rate-limit
```

```
errdisable recovery cause pppoe-ia-rate-limit
```

```
errdisable recovery cause mac-limit
```

```
errdisable recovery cause vmps
```

```
errdisable recovery cause storm-control
```

```
errdisable recovery cause inline-power
```

```
errdisable recovery cause arp-inspection
```

```
errdisable recovery cause loopback
```

```
errdisable recovery cause small-frame
```

```
errdisable recovery cause psp
```

```
!
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
vlan internal allocation policy ascending
!
ip ssh time-out 60
ip ssh version 2
!
interface Port-channel1
description LACP_aggregation
switchport trunk allowed vlan 100-210
switchport mode trunk
!
interface FastEthernet0
no ip address
shutdown
!
interface GigabitEthernet1/0/1
description ADMINISTRATEUR
switchport access vlan 110
switchport mode access
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/2
description ADMINISTRATEUR
switchport access vlan 110
switchport mode access
switchport port-security
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/3
description ADMINISTRATEUR
switchport access vlan 110
switchport mode access
switchport port-security
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/4
description vers ESX, a modif
switchport          trunk          allowed          vlan
100,110,120,130,150,160,170,180,190,200,210
switchport mode trunk
!
interface GigabitEthernet1/0/5
description teste thibault
switchport access vlan 110
switchport mode access
switchport port-security
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/6
shutdown
!
interface GigabitEthernet1/0/7
shutdown
!
interface GigabitEthernet1/0/8
shutdown
!
interface GigabitEthernet1/0/9
shutdown
!
interface GigabitEthernet1/0/10
shutdown
!
interface GigabitEthernet1/0/11
shutdown
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
!  
interface GigabitEthernet1/0/12  
shutdown  
!  
interface GigabitEthernet1/0/13  
shutdown  
!  
interface GigabitEthernet1/0/14  
shutdown  
!  
interface GigabitEthernet1/0/15  
description vers user_romemedilab  
switchport access vlan 150  
switchport mode access  
spanning-tree portfast  
spanning-tree bpduguard enable  
!  
interface GigabitEthernet1/0/16  
shutdown  
!  
interface GigabitEthernet1/0/17  
description vers SW2  
switchport trunk allowed vlan 100-210  
switchport mode trunk  
channel-protocol lacp  
channel-group 1 mode active  
!  
interface GigabitEthernet1/0/18  
description vers SW2  
switchport trunk allowed vlan 100-210  
switchport mode trunk  
channel-protocol lacp  
channel-group 1 mode active  
!
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
interface GigabitEthernet1/0/19
shutdown
!
interface GigabitEthernet1/0/20
shutdown
!
interface GigabitEthernet1/0/21
shutdown
!
interface GigabitEthernet1/0/22
switchport mode trunk
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/23
description vers DRAC
switchport access vlan 140
switchport mode access
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/24
description vers routeur
switchport mode trunk
!
interface GigabitEthernet1/0/25
shutdown
!
interface GigabitEthernet1/0/26
shutdown
!
interface GigabitEthernet1/0/27
shutdown
!
```





## **CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB**

end

## Configuration Switch 2 :

```
!  
version 12.2  
no service pad  
service timestamps debug datetime msec  
service timestamps log datetime msec  
service password-encryption  
!  
hostname SW-RO-002  
!  
boot-start-marker  
boot-end-marker  
!  
enable secret 5 $1$8LKL$.yzw33Ez6u8tBKAvj9dMM0  
!  
username      tguyot      privilege      15      secret      5  
$1$B9Sf$wDyuWGRKTAXKhNH/90N3G0  
username      rpoulet     privilege      15      secret      5  
$1$2/HU$Ij3KcZUr05XJvzjaUmM4l0  
username imoufidi secret 5 $1$I2.9$WUxTdSciqVksuFYjfAdqs0  
!  
no aaa new-model  
switch 1 provision ws-c2960s-24ps-l
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
!  
no ip domain-lookup  
ip domain-name romemedilab.fr  
!  
spanning-tree mode pvst  
spanning-tree extend system-id  
!  
vlan internal allocation policy ascending  
!  
ip ssh version 2  
!  
interface Port-channel1  
description LACP_aggregation  
switchport trunk allowed vlan 100-210  
switchport mode trunk  
!  
interface FastEthernet0  
no ip address  
!  
interface GigabitEthernet1/0/1  
switchport access vlan 110  
switchport mode access  
!
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
interface GigabitEthernet1/0/2
switchport access vlan 110
switchport mode access
switchport port-security
spanning-tree portfast
spanning-tree bpduguard enable
!
interface GigabitEthernet1/0/3
!
interface GigabitEthernet1/0/4
!
interface GigabitEthernet1/0/5
!
interface GigabitEthernet1/0/6
!
interface GigabitEthernet1/0/7
!
interface GigabitEthernet1/0/8
!
interface GigabitEthernet1/0/9
!
interface GigabitEthernet1/0/10
!
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
interface GigabitEthernet1/0/11
!
interface GigabitEthernet1/0/12
!
interface GigabitEthernet1/0/13
!
interface GigabitEthernet1/0/14
!
interface GigabitEthernet1/0/15
!
interface GigabitEthernet1/0/16
!
interface GigabitEthernet1/0/17
description vers SW1
switchport trunk allowed vlan 100-210
switchport mode trunk
channel-protocol lacp
channel-group 1 mode active
!
interface GigabitEthernet1/0/18
description vers SW1
switchport trunk allowed vlan 100-210
switchport mode trunk
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
channel-protocol lacp
channel-group 1 mode active
!
interface GigabitEthernet1/0/19
!
interface GigabitEthernet1/0/20
!
interface GigabitEthernet1/0/21
!
interface GigabitEthernet1/0/22
!
interface GigabitEthernet1/0/23
switchport mode trunk
!
interface GigabitEthernet1/0/24
description vers routeur
switchport mode trunk
!
interface GigabitEthernet1/0/25
!
interface GigabitEthernet1/0/26
!
interface GigabitEthernet1/0/27
```

## CONFIGURATION SWITCH ET ROUTEUR POUR L'AP, GROUPE DE ROMEMEDILAB

```
!  
interface GigabitEthernet1/0/28  
  
!  
interface Vlan1  
no ip address  
  
!  
interface Vlan110  
ip address 172.16.32.25 255.255.255.240  
  
!  
ip http server  
ip http secure-server  
banner motd Acces interdit aux personnes non autorisees  
  
!  
line con 0  
line vty 0 4  
login local  
transport input ssh  
  
line vty 5 15  
login  
  
!  
end
```