

# Registre info Techniques

## Fiche Pratique

Révision 9b

09/12/25

Nombre de Pages :16



# Introduction

Ce document est un registre qui catalogue et répertorie tout les connaissances techniques du réseau mis en place

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# 1. Schéma

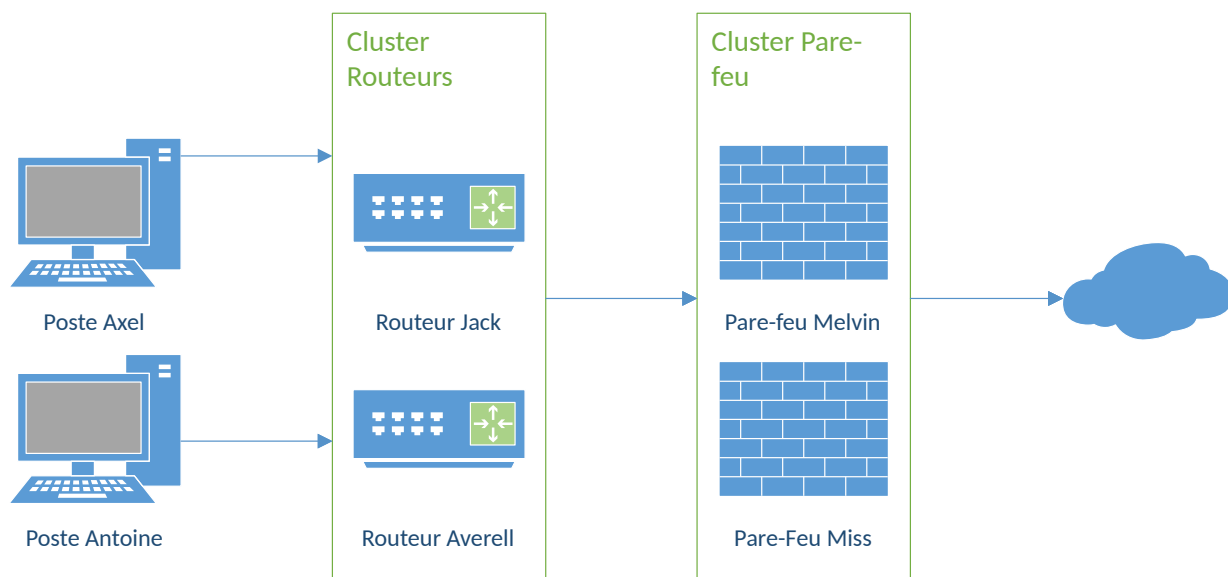


Schéma de l'infrastructure logique

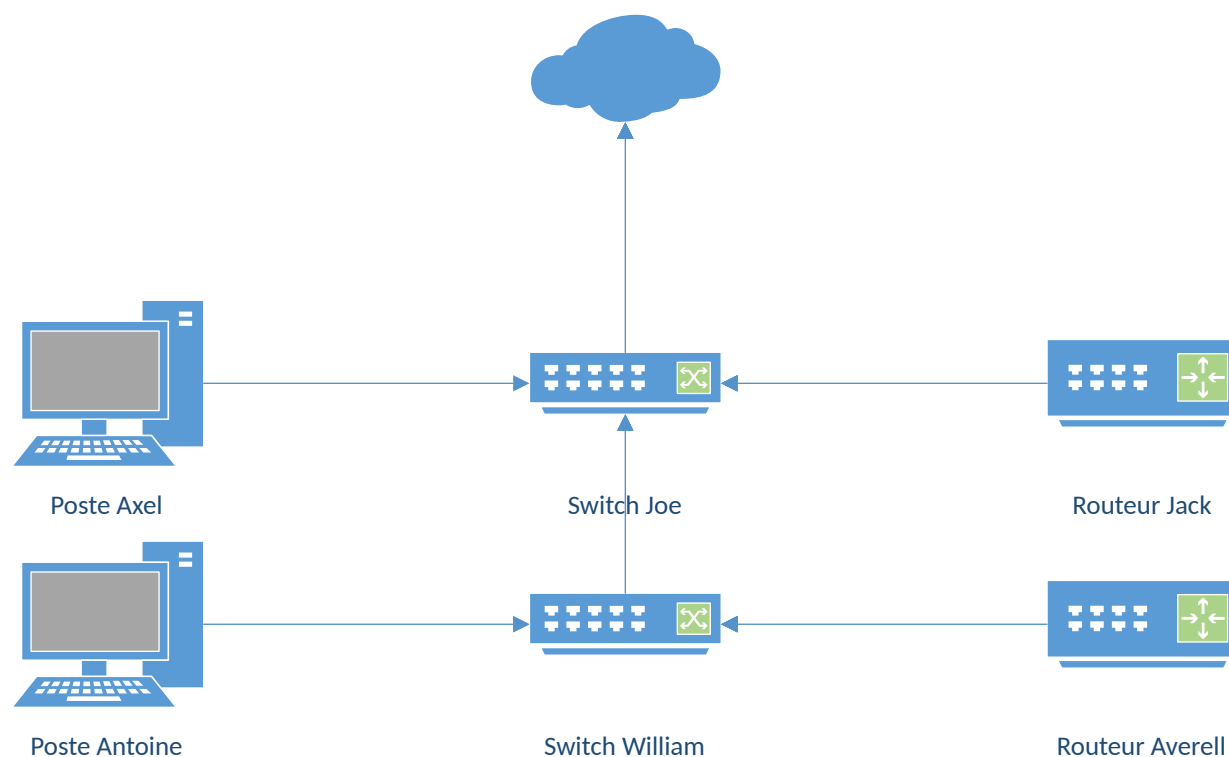


Schéma de l'infrastructure physique

## 2. Adressage

### 2.1 Vlan

| Nom   | Réservé                         | N° | DHCP    | Invalidé |
|-------|---------------------------------|----|---------|----------|
| DATA  |                                 | 10 | Partiel |          |
| User  |                                 | 20 | Complet |          |
| Admin | Au machines physique + Pare-feu | 30 | Non     |          |
| DMZ   |                                 | 40 | Non     |          |
| Wifi  | Service wifi                    | 50 | Complet |          |
| Wan   | Pare-feu uniquement             | 60 | Non     |          |
| ToIP  |                                 | 70 | Complet |          |
|       |                                 |    |         |          |
|       |                                 |    |         |          |
|       |                                 |    |         |          |
|       |                                 |    |         |          |
|       |                                 |    |         |          |

### 2.2 Réseaux

| Réseau          | VLAN     | Invalidé |
|-----------------|----------|----------|
| 172.17.1.0/24   | 10 DATA  |          |
| 172.17.10.0/24  | 20 Users |          |
| 172.18.0.240/28 | 30 Admin |          |
| 172.18.0.0/27   | 40 DMZ   |          |
| 172.19.0.0/24   | 50 Wifi  |          |
| 172.16.19.0/24  | 60 Wan   |          |
| 10.0.0.0/24     | 70 ToIP  |          |
|                 |          |          |
|                 |          |          |
|                 |          |          |
|                 |          |          |
|                 |          |          |

## 2.3 DHCP

| Réseau         | Début       | Fin           | Passerelle  | VLAN | Invalidé |
|----------------|-------------|---------------|-------------|------|----------|
| 172.17.1.0/24  | 172.17.1.40 | 172.17.1.55   | 172.17.1.1  | 10   |          |
| 172.17.10.0/24 | 172.17.10.4 | 172.17.10.254 | 172.17.10.1 | 20   |          |
| 172.19.0.0/24  | 172.19.0.4  | 172.19.0.254  | 172.19.0.1  | 50   |          |
| 10.0.0.0/24    | 10.0.0.4    | 10.0.0.254    | 10.0.0.1    | 70   |          |
|                |             |               |             |      |          |
|                |             |               |             |      |          |
|                |             |               |             |      |          |

Ne pas placer les machines physiques fixes sur un réseau/adresse avec DHCP !

## 2.4 Extérieur

| Nom      | Adresse       | URL               | Service        | Invalidé |
|----------|---------------|-------------------|----------------|----------|
| poseidon | 172.16.100.14 | poseidon.sio.jjr  | Stockage       |          |
| inari    | 172.16.100.12 | inari.sio.jjr     | DNS Secondaire |          |
| margaux  | 172.16.100.10 | margaux.sio.jjr   | DNS Primaire   |          |
| brouilly | 172.16.100.8  | brouilly.sio.jjr. | Proxy          |          |
|          |               |                   |                |          |
|          |               |                   |                |          |
|          |               |                   |                |          |
|          |               |                   |                |          |
|          |               |                   |                |          |

## 2.5 Clusters

| Nom               | Type | Machines Impliqué                | Invalidé |
|-------------------|------|----------------------------------|----------|
| Routage Principal | HSRP | Averell 2800, Jack 2800          |          |
| Pare-feu          | CARP | Melvin (pfsense), Miss (pfsense) |          |
|                   |      |                                  |          |
|                   |      |                                  |          |
|                   |      |                                  |          |

Attention : Hyper-V peut interférer avec des standards et protocoles de Couche 2 et 3 !

### 3. Catalogue

| Nom                 | Adresse          | URL       | Connecté via               | Invalidé |
|---------------------|------------------|-----------|----------------------------|----------|
| Passerelle VLAN10   | 172.17.1.1/24    |           | Cluster Routeurs           |          |
| Passerelle VLAN20   | 172.17.10.1/24   |           | Cluster Routeurs           |          |
| Passerelle VLAN30   | 172.18.0.241/28  |           | Cluster Routeurs           |          |
| Passerelle VLAN50   | 172.19.0.1/24    |           | Cluster Routeurs           |          |
| Passerelle VLAN70   | 10.0.0.1/24      |           | Cluster Routeurs           |          |
| DHCP (ancien)       | 172.17.1.21/24   |           | VLAN 10 hyper-v antoine    |          |
| AD antoine          | 172.17.1.20/24   |           | VLAN 10 hyper-v antoine    |          |
| AD client antoine   | 172.17.10.20/24  |           | VLAN 20 hyper-v antoine    |          |
| AD axel             | 172.17.1.10/24   |           | VLAN 10 hyper-v axel       |          |
| Pare Feu LAN        | 172.18.0.243/28  |           | VLAN 30 Cluster Pare-feu   |          |
| Pare Feu WAN        | 172.16.19.162/28 |           | VLAN 60 Cluster Pare-feu   |          |
| Pare Feu OPT1       | 172.18.0.1/27    |           | VLAN 40 Cluster Pare-feu   |          |
| Dock PC antoine     | 172.18.0.244/28  |           | VLAN 30 port 9-10 catalyst |          |
| Dock PC antoine     | ? (DHCP)         |           | VLAN 10/20/50/70           |          |
| Réservé test VLAN10 | 172.17.1.39/24   |           | VLAN 10                    |          |
| Réservé test VLAN10 | 172.17.1.40/24   |           | VLAN 10                    |          |
| Réservé test VLAN30 | 172.18.0.252/28  |           | VLAN 30                    |          |
| Réservé test VLAN30 | 172.18.0.253/28  |           | VLAN 30                    |          |
| Réservé test VLAN40 | 172.18.0.29/27   |           | VLAN 40                    |          |
| Réservé test VLAN40 | 172.18.0.30/27   |           | VLAN 40                    |          |
| Poste Antoine       | 172.17.1.38/24   |           | VLAN 10                    |          |
| Poste Axel          | 172.17.1.37/24   |           | VLAN 10                    |          |
| Averell 2800 VLAN10 | 172.17.1.2/24    | averell.< |                            |          |
| Averell 2800 VLAN20 | 172.17.10.2/24   |           |                            |          |
| Averell 2800 VLAN30 | 172.18.0.246/28  |           |                            |          |
| Averell 2800 VLAN50 | 172.19.0.2/24    |           |                            |          |
| Averell 2800 VLAN70 | 10.0.0.2/24      |           |                            |          |
| Jack 2800 VLAN10    | 172.17.1.3/24    | jack.<    |                            |          |

Ne pas placer les machines physiques fixes sur un réseau/adresse avec DHCP !

< = booktic.internal / □ = bookticap.local / ◇ = bookticam.local

[illegible]

Ne pas placer les machines physiques fixes sur un réseau/adresse avec DHCP !

◁ = booktic.internal / ◻ = bookticap.local / ◇ = bookticam.local

## 4. Configuration

Configuration des équipements physiques avec terminal, Voir chapitre 1 pour plus d'info sur leur placement

### 4.1 Routeurs

#### 4.1.a Averell

Le routeur Averell est un Cisco 2801 (Révision 5) avec l'IOS C2801-IPBASEK9-M V15.1(3)T

Fichier de Configuration du 19/11/25

```
!  
! Last configuration change at 16:08:08 UTC Fri Nov 14 2025  
! NVRAM config last updated at 16:08:16 UTC Fri Nov 14 2025  
!  
version 15.1  
service timestamps debug datetime msec  
service timestamps log datetime msec  
no service password-encryption  
!  
hostname averell-2800  
!  
boot-start-marker  
boot-end-marker  
!  
no aaa new-model  
dot11 syslog  
ip source-route  
!  
no ip dhcp relay information check  
!  
ip cef  
ip name-server 172.17.1.24  
multilink bundle-name authenticated  
!  
crypto pki token default removal timeout 0  
!  
license udi pid CISC02801 sn FCZ0926127W  
!  
track 1 interface FastEthernet0/0.20 line-protocol  
!  
track 2 interface FastEthernet0/0.30 line-protocol  
!
```



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```
track 3 interface FastEthernet0/0.50 line-protocol
!
track 4 interface FastEthernet0/0.70 line-protocol
!
track 5 interface FastEthernet0/0.10 line-protocol
!
!
interface FastEthernet0/0
  no ip address
  duplex auto
  speed auto
!
interface FastEthernet0/0.10
  encapsulation dot1Q 10
  ip address 172.17.1.2 255.255.255.0
  ip helper-address 172.17.1.24
  standby 10 ip 172.17.1.1
  standby 10 priority 150
  standby 10 preempt
  standby 10 track 1 decrement 70
  standby 10 track 2 decrement 70
  standby 10 track 3 decrement 70
  standby 10 track 4 decrement 70
!
interface FastEthernet0/0.20
  encapsulation dot1Q 20
  ip address 172.17.10.2 255.255.255.0
  ip helper-address 172.17.1.24
  standby 20 ip 172.17.10.1
  standby 20 priority 150
  standby 20 preempt
  standby 20 track 2 decrement 70
  standby 20 track 3 decrement 70
  standby 20 track 4 decrement 70
  standby 20 track 5 decrement 70
!
interface FastEthernet0/0.30
  encapsulation dot1Q 30
  ip address 172.18.0.246 255.255.255.240
  standby 30 ip 172.18.0.241
  standby 30 priority 150
  standby 30 preempt
  standby 30 track 1 decrement 70
  standby 30 track 3 decrement 70
  standby 30 track 4 decrement 70
```

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```
standby 30 track 5 decrement 70
!
interface FastEthernet0/0.50
encapsulation dot1Q 50
ip address 172.19.0.2 255.255.255.0
ip helper-address 172.17.1.24
standby 50 ip 172.19.0.1
standby 50 priority 150
standby 50 preempt
standby 50 track 1 decrement 70
standby 50 track 2 decrement 70
standby 50 track 4 decrement 70
standby 50 track 5 decrement 70
!
interface FastEthernet0/0.70
encapsulation dot1Q 70
ip address 10.0.0.2 255.255.255.0
ip helper-address 172.17.1.24
standby 70 ip 10.0.0.1
standby 70 priority 150
standby 70 preempt
standby 70 track 1 decrement 70
standby 70 track 2 decrement 70
standby 70 track 3 decrement 70
standby 70 track 5 decrement 70
!
interface FastEthernet0/1
no ip address
shutdown
duplex auto
speed auto
!
ip forward-protocol nd
!
!
no ip http server
no ip http secure-server
ip route 0.0.0.0 0.0.0.0 172.18.0.243
!
logging esm config
!
!
control-plane
!
line con 0
```

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```
line aux 0
line vty 0 4
  login
  transport input all
!
scheduler allocate 20000 1000
ntp server 172.18.0.243
end
```

## 4.1.b Jack

Le routeur Jack est un Cisco 2801 (Révision 6) avec l'IOS C2801-IPBASEK9-M V15.1(3)T

Fichier de Configuration du 19/11/25

```
!
! Last configuration change at 15:11:38 UTC Fri Nov 14 2025
! NVRAM config last updated at 15:15:11 UTC Fri Nov 14 2025
!
version 15.1
service timestamps debug datetime msec
service timestamps log datetime msec
no service password-encryption
!
hostname jack-2800
!
boot-start-marker
boot-end-marker
!
no aaa new-model
dot11 syslog
ip source-route
!
no ip dhcp relay information check
!
ip cef
ip name-server 172.17.1.24
multilink bundle-name authenticated
!
crypto pki token default removal timeout 0
!
license udi pid CISC02801 sn FCZ1101747C
!
interface FastEthernet0/0
  no ip address
  duplex auto
  speed auto
```

```
!  
interface FastEthernet0/0.10  
  encapsulation dot1Q 10  
  ip address 172.17.1.3 255.255.255.0  
  ip helper-address 172.17.1.24  
  standby 10 ip 172.17.1.1  
  standby 10 priority 80  
!  
interface FastEthernet0/0.20  
  encapsulation dot1Q 20  
  ip address 172.17.10.3 255.255.255.0  
  ip helper-address 172.17.1.24  
  standby 20 ip 172.17.10.1  
  standby 20 priority 80  
!  
interface FastEthernet0/0.30  
  encapsulation dot1Q 30  
  ip address 172.18.0.247 255.255.255.240  
  standby 30 ip 172.18.0.241  
  standby 30 priority 80  
!  
interface FastEthernet0/0.50  
  encapsulation dot1Q 50  
  ip address 172.19.0.3 255.255.255.0  
  ip helper-address 172.17.1.24  
  standby 50 ip 172.19.0.1  
  standby 50 priority 80  
!  
interface FastEthernet0/0.70  
  encapsulation dot1Q 70  
  ip address 10.0.0.3 255.255.255.0  
  ip helper-address 172.17.1.24  
  standby 70 ip 10.0.0.1  
  standby 70 priority 80  
!  
interface FastEthernet0/1  
  no ip address  
  shutdown  
  duplex auto  
  speed auto  
!  
ip forward-protocol nd  
!  
no ip http server  
no ip http secure-server
```

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```
ip route 0.0.0.0 0.0.0.0 172.18.0.243
!
logging esm config
!
tftp-server flash:certificates/RIDF_CA.crt
!
control-plane
!
line con 0
line aux 0
line vty 0 4
  login
  transport input all
!
scheduler allocate 20000 1000
ntp server 172.18.0.243
end
```

## 4.2 Switch

### 4.2.a William

Le Switch William est un Cisco WS-C2960+24TC-S (PowerPC405) (Révision B0) avec l'IOS C2960-LANLITEK9-M V15.0(2)SE6

Fichier de Configuration du 19/11/25

```
!
! Last configuration change at 04:23:36 UTC Fri Mar 5 1993
!
version 15.0
no service pad
service timestamps debug uptime
service timestamps log uptime
no service password-encryption
!
hostname william-catalyst
!
boot-start-marker
boot-end-marker
!
no aaa new-model
system mtu routing 1500
!
spanning-tree mode pvst
spanning-tree extend system-id
!
```

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```
vlan internal allocation policy ascending
!
interface FastEthernet0/1 (Port 1 à 6)
  switchport access vlan 10
  switchport mode access
!
interface FastEthernet0/7 (Port 7 à 8)
  switchport access vlan 20
  switchport mode access
!
interface FastEthernet0/9 (Port 9 à 10)
  switchport access vlan 30
  switchport mode access
!
interface FastEthernet0/11 (Port 11 à 12)
  switchport access vlan 40
  switchport mode access
!
interface FastEthernet0/13
  switchport access vlan 50
  switchport mode access
!
interface FastEthernet0/14 (Port 14 à 15)
  switchport access vlan 60
  switchport mode access
!
interface FastEthernet0/16 (Port 16 à 17)
  switchport access vlan 70
  switchport mode access
!
interface FastEthernet0/18 (Port 18 à 23)
  switchport trunk allowed vlan 10-70,80
  switchport mode trunk
!
interface FastEthernet0/24
  switchport trunk allowed vlan 10-70,80
  switchport mode trunk
  storm-control action shutdown
!
interface GigabitEthernet0/1
  switchport trunk allowed vlan 10-70,80
  switchport mode trunk
  spanning-tree bpduguard enable
  spanning-tree bpdufilter enable
!
```

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```
interface GigabitEthernet0/2
  switchport trunk allowed vlan 10-70,80
  switchport mode trunk
  storm-control action shutdown
!
interface Vlan1
  no ip address
  no ip route-cache
!
ip http server
ip http secure-server
!
!
line con 0
line vty 0 4
  no login
line vty 5 15
  no login
!
end
```

## 4.2.b Joe

Le Switch Joe est un Aruba J9780A avec l'OS Aruba YB.15.17.0009

Fichier de Configuration du 19/11/25

```
; J9780A Configuration Editor; Created on release #YB.15.17.0009
; Ver #07:c3.84.9c.63.ff.37.27:50
hostname "joe-aruba"
snmp-server community "public" unrestricted
vlan 1
  name "DEFAULT_VLAN"
  no untagged 1-3,5-8
  untagged 4,9-10
  no ip address
  exit
vlan 10
  name "Data"
  untagged 1-2
  tagged 4,9-10
  no ip address
  exit
vlan 20
  name "Users"
  tagged 4,9-10
  no ip address
```

```
    exit
vlan 30
    name "Admin"
    tagged 4,9-10
    no ip address
    exit
vlan 40
    name "DMZ"
    tagged 4,9-10
    no ip address
    exit
vlan 50
    name "Wifi"
    untagged 7-8
    tagged 4,9-10
    no ip address
    exit
vlan 60
    name "WAN"
    untagged 5-6
    tagged 4,9-10
    no ip address
    exit
vlan 70
    name "ToIP"
    untagged 3
    tagged 4,9-10
    no ip address
    exit
```