


# Réalisation IMC – Gestion d'appareils en entreprise

Portfolio de fin d'année – Mathéo  
SOUBIROUS

A large, dark blue, diagonal shape that starts from the bottom left corner and extends towards the top right corner, covering the lower half of the slide.

# HPE IMC

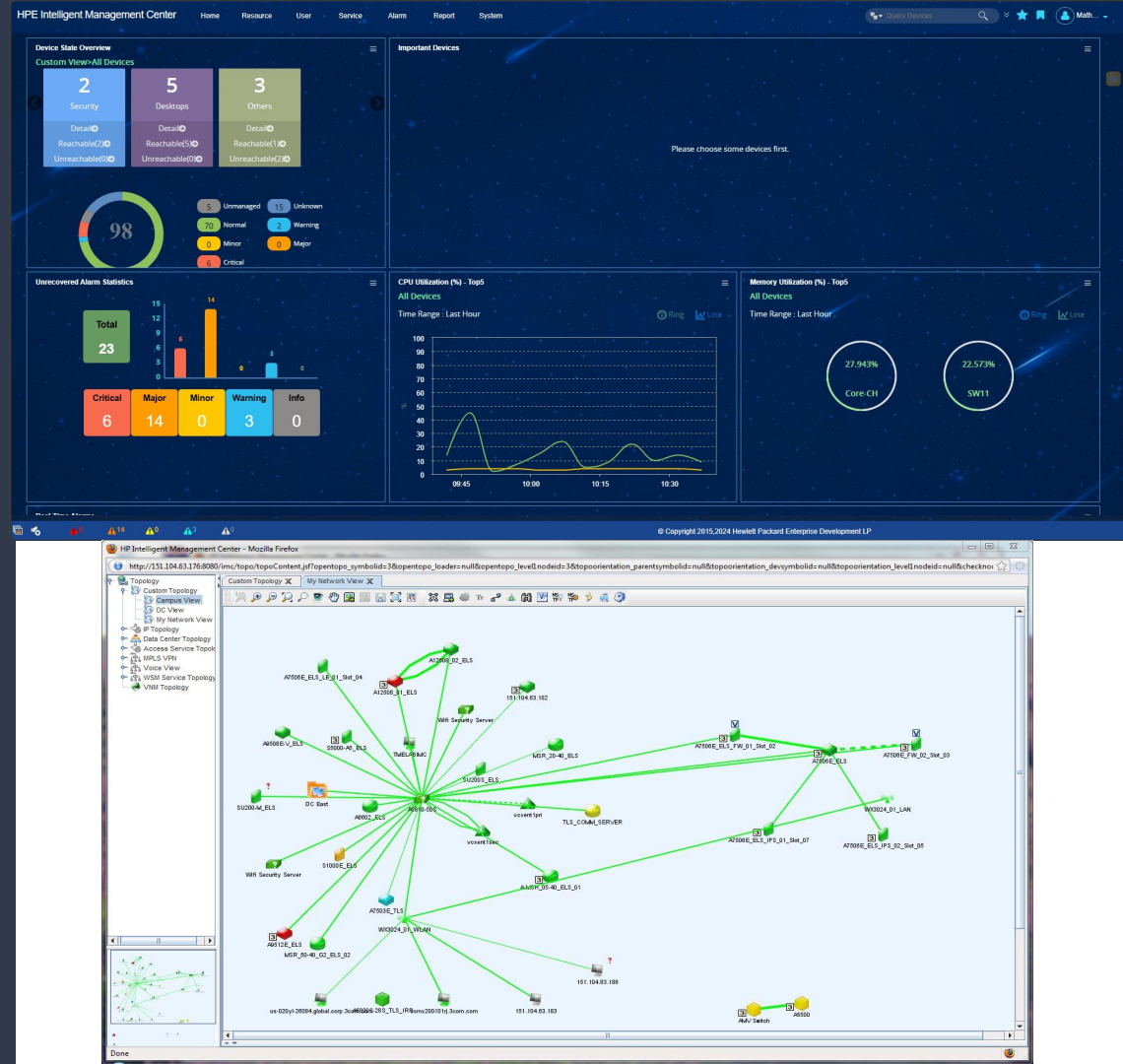
HPE IMC est un outils de gestion réseau pour surveiller, configurer et optimiser les infrastructures réseau.

Dans mon entreprise cet outils est surtout utilisé pour la remonter d'alerte et pour sauvegarder automatique les différents switches.

# Interface IMC

Sur cette interface on peut voir :

- le nombre total de d'équipement
- les remontées d'alertes
- l'utilisation du CPU et de la mémoire des appareils
- et en-dessous il est possible de voir la topologie réseau



# Création appareils

Pour créer un appareil il faut rentrer :

- l'adresses IP
- le nom
- le masque réseau

Il est aussi possible de configurer :

- le snmp
- le ssh
- le tenet

Ci-dessous on peut voir l'interface de l'appareil une fois créé.

The image displays two screenshots of the HPE Intelligent Management Center (IMC) interface. The top screenshot shows the 'Resource > Add Device' form, which includes fields for Host Name/IP, Device Label, IP Address, Mask, Device Group, Login Type, and checkboxes for SNMP, Ping, and Telnet settings. The bottom screenshot shows the 'Device Details' page for a device named 'SW-DIGN-2620(172.16.62.96)'. This page provides a comprehensive overview of the device's configuration, including its IP address, mask, device model, and various service settings like SNMP, Ping, and Telnet. It also includes a 'Performance Monitor' section with a table showing the device's average response time and availability.

**Resource > Add Device**

**Basic Information**

Host Name/IP: 172.16.  
Device Label: SW-DIGN.  
Mask: 255.255.255.0  
Device Group:   
Login Type: SSH

☒ Automatically register to receive SNMP traps from supported devices  
☒ Support Ping Operation  
☒ Add the device regardless of the ping result  
☒ Use the loopback address as the management IP

**SNMP Settings**  
**Telnet Settings**  
**SSH Settings**

**Device Details**

Device Label: SW-DIGN-2620(172.16.62.96)  
Device Status: Normal  
IP Address: 172.16.  
Mask: 255.255.255.0  
sysID: 13.0.14.147166.4.1.1.250  
Device Model: Aruba JL675A-6100-48G CL4 43SF+  
Device Category: Switches  
Device Bridge MAC: d4-e0-53-10-13-40  
System Description: Aruba JL675A-6100-48G CL4 43SF+ Switch PL 10.12.0006  
Maintenance Tag: No Maintenance Tag

**Service Monitoring**

Monitoring Service: Total Items: 0

**Performance Monitor**

Monitor Index	Monitored Value	Operation
Average Response Time of Device in Last Hour - [Device]	1.000 ms	Stop Monitor
Average Device Unavailability Proportion in Today - [Device]	0.000%	Stop Monitor

Ici on peut voir les informations de la dernière sauvegarde comme la date, quand elle se fait et la version actuelle de l'appareil.

Et grâce à cette interface on peut aussi récupérer les sauvegardes.

Service Monitoring	Trap Destination	Joined Device Groups	Configuration Management	Network Assets
Configuration Management				Configuration History
Latest Configuration Backup at		2025-04-07 03:04:27		
Automatically Backup Period		Every Day 03:00:00		
Latest Startup Configuration Backup		172.16.62.96_startup_20241031030412.cfg	<a href="#">[Save As]</a>	
Latest Running Configuration Backup		172.16.62.96_running_20241031030348.cfg	<a href="#">[Save As]</a>	
Current Software		PL.10.12.0006		
Latest Available Software for Upgrade		—		

## Politique de sauvegarde automatique des switches de l'entreprise

**HPE Intelligent Management Center**

Home Resource User Service Alarm Report System

Configuration Center

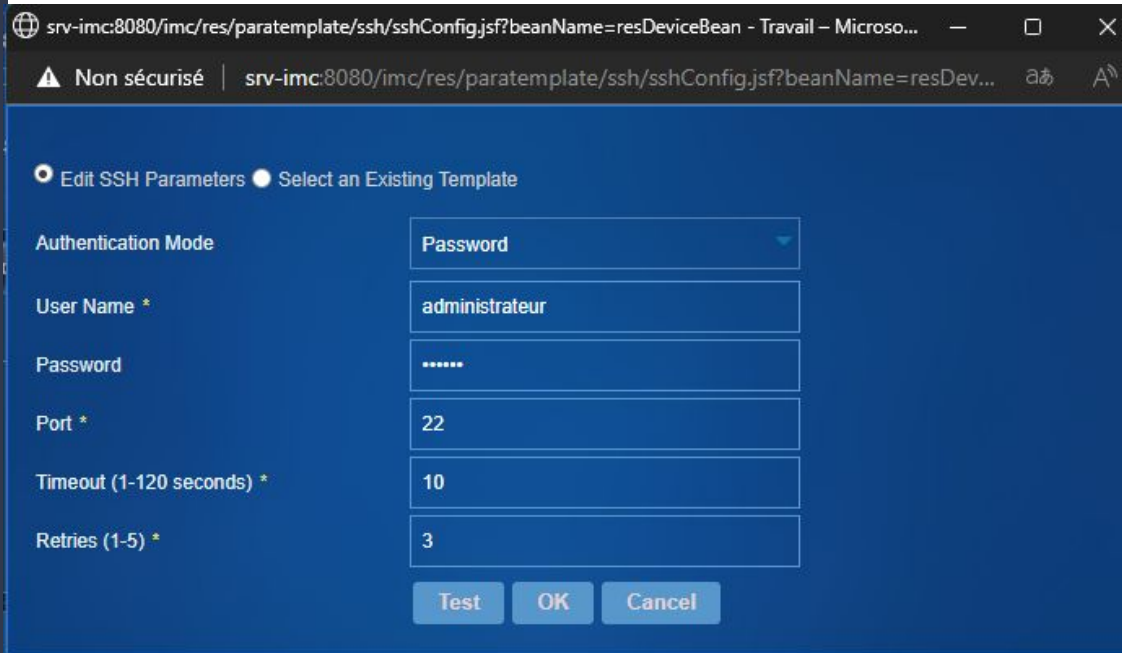
Service > Auto Backup Plan

+ Add Delete Refresh

Name	Description	Configuration Type	Creator	Last Edited By	Status	Backup History	Modify
Backup All Switches	Sauvegarde de toutes les configurations de tous les switches sauf le coeur HP (indépendant)	Auto Backup Plan	admin	msoubirous	Enabled		

# Configuration SSH

La configuration SSH se fait avec le login et le mot de passe et cela permet de se connecter sur l'appareil



The screenshot shows a web browser window with the address bar displaying the URL: `srv-imc:8080/imc/res/paratemplate/ssh/sshConfig.jsf?beanName=resDeviceBean`. The page title is "Travail - Microso...". The browser's security status is indicated as "Non sécurisé".

The main content area has a dark blue background and contains two radio buttons at the top: "Edit SSH Parameters" (which is selected) and "Select an Existing Template".

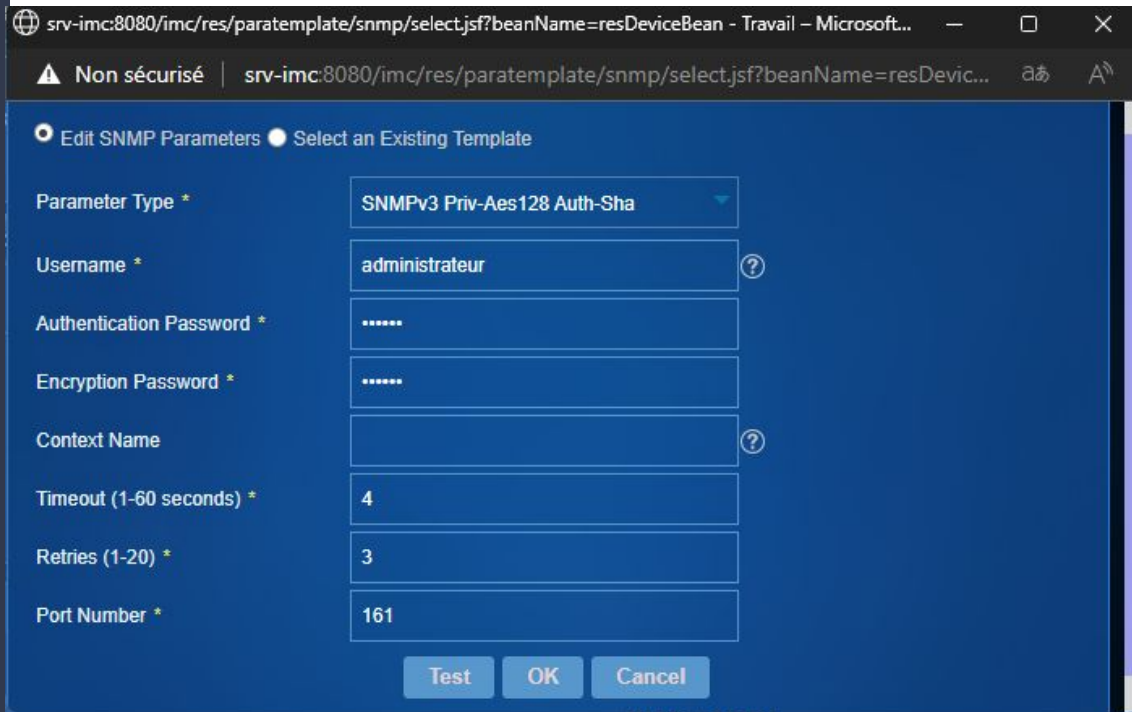
Below the radio buttons are several input fields:

- Authentication Mode:** A dropdown menu showing "Password".
- User Name \*:** A text input field containing "administrateur".
- Password:** A text input field containing "\*\*\*\*\*".
- Port \*:** A text input field containing "22".
- Timeout (1-120 seconds) \*:** A text input field containing "10".
- Retries (1-5) \*:** A text input field containing "3".

At the bottom right of the form are three buttons: "Test", "OK", and "Cancel".

# Configuration SNMP

La configuration du snmp se fait d'abord en choisissant le bon paramètre de hachage, ici AES 128 et SHA 1, un login et 2 mots de passe, 1 pour l'authentification et 1 pour le chiffrement



The screenshot shows a web browser window with the URL `srv-imc:8080/imc/res/paratemplate/snmp/select.jsf?beanName=resDeviceBean`. The page title is "Travail - Microsoft...". The browser's address bar shows a warning "Non sécurisé" (Not secure) and the same URL. The main content area has a dark blue background and contains the following configuration form:

- Two radio buttons at the top: "Edit SNMP Parameters" (selected) and "Select an Existing Template".
- A dropdown menu for "Parameter Type \*" with the value "SNMPv3 Priv-Aes128 Auth-Sha".
- A text input for "Username \*" containing "administrateur".
- A text input for "Authentication Password \*" containing six dots.
- A text input for "Encryption Password \*" containing six dots.
- A text input for "Context Name" with a question mark icon.
- A text input for "Timeout (1-60 seconds) \*" containing "4".
- A text input for "Retries (1-20) \*" containing "3".
- A text input for "Port Number \*" containing "161".
- Three buttons at the bottom: "Test", "OK", and "Cancel".