


Projet IMC – Gestion d'appareils en entreprise

Portfolio de fin d'année – Mathéo
SOUBIROUS

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

HPE IMC

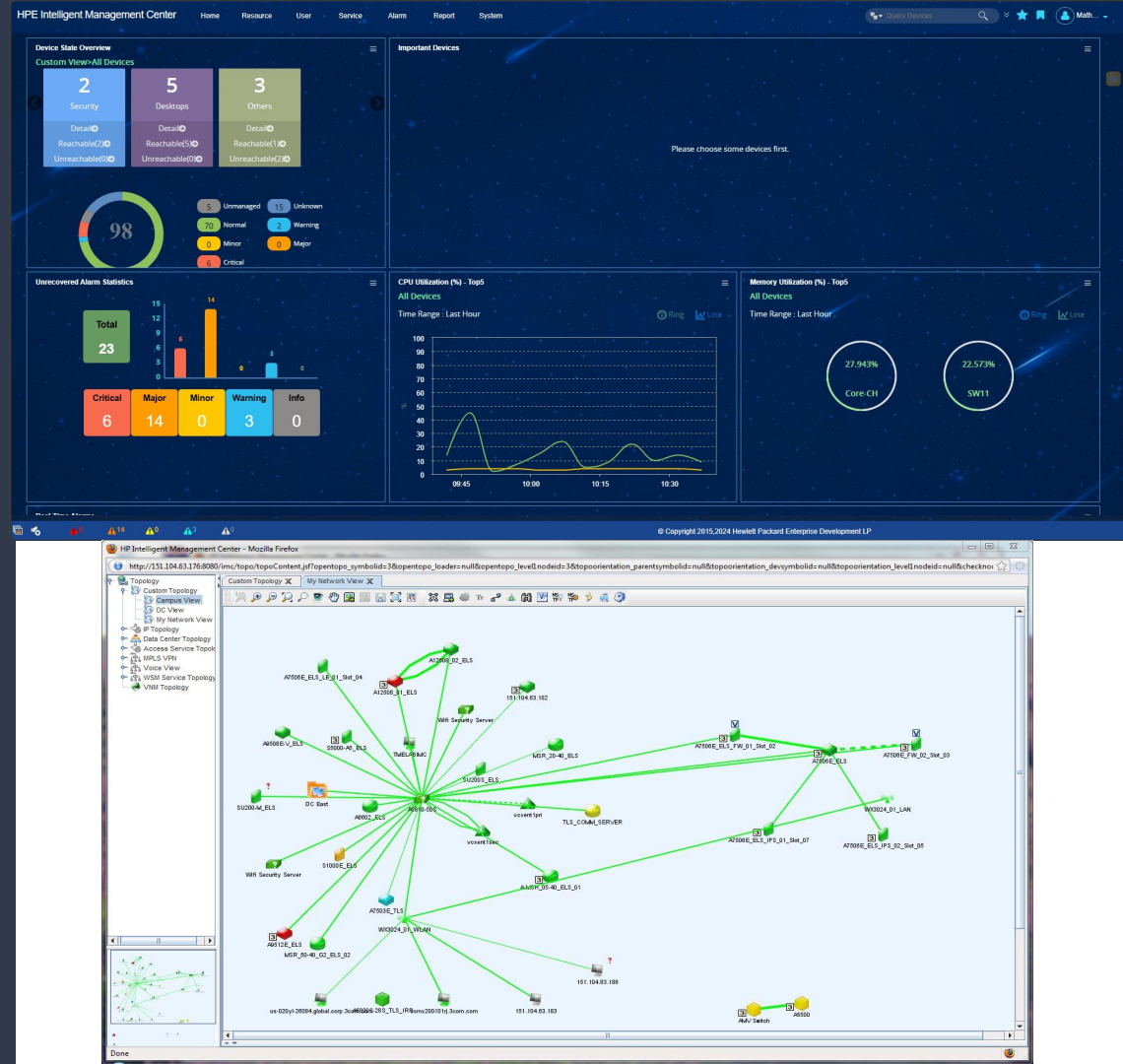
HPE IMC est un outils de gestion réseau pour surveiller, configurer et optimiser les infrastructures réseau.

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 Tenet 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 settings. It also features a 'Service Monitoring' section with tabs for Trap Destination, Joined Device Groups, Configuration Management, and Network Assets, and a 'Performance Monitor' section with a table of monitored values.

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
Tenet 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

Trap Destination:
Joined Device Groups:
Configuration Management:
Network Assets:
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	[Save As]	
Latest Running Configuration Backup		172.16.62.96_running_20241031030348.cfg	[Save As]	
Current Software		PL.10.12.0006		
Latest Available Software for Upgrade		—		

Politique de sauvegarde automatique des switches de l'entreprise

HP E Intelligent Management Center

HomeResourceUserServiceAlarmReportSystem

Query Devices

Math...

Configuration Center

Configuration Templates

Software Library

Deployment Guide

Service > Auto Backup Plan

+ AddDeleteRefresh

Name	Description	Configuration Type	Creator	Last Edited By	Status	Backup History	Modify
Backup All Switchs	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

srv-ipc:8080/imc/res/paratemplate/ssh/sshConfig.jsf?beanName=resDeviceBean - Travail - Microso...

⚠ Non sécurisé | srv-ipc:8080/imc/res/paratemplate/ssh/sshConfig.jsf?beanName=resDev...

☒ Edit SSH Parameters ☐ Select an Existing Template

Authentication Mode: Password

User Name *: administrateur

Password:

Port *: 22

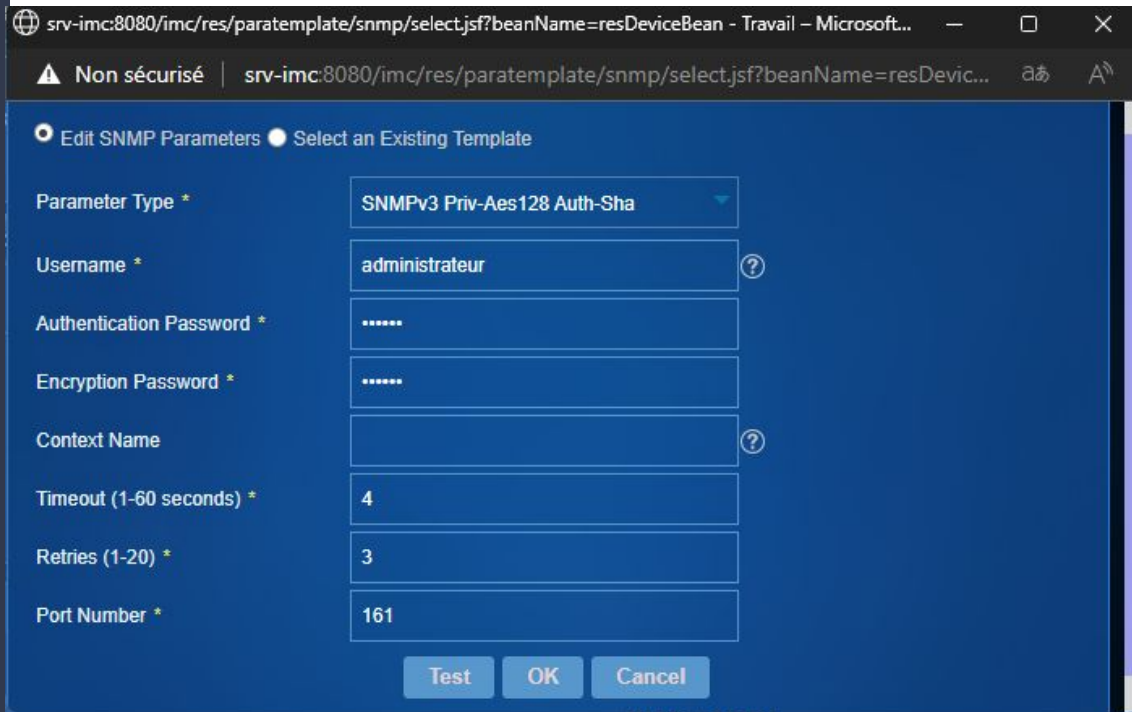
Timeout (1-120 seconds) *: 10

Retries (1-5) *: 3

Test OK 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".