iBelieve 2024

Présent et Futur de l'IBM i

10 Octobre 2024
Événement Online

Objectif IBMi

Monitorez l'IBM i
avec les mêmes outils que
les autres serveurs de l'entreprise

ACMi CFD Innovation FRESCHE GAIA IBM itheis M81 precisely REMAIN resolution XCASE

Qui est M81

Editeur indépendant de logiciels (ISV) européen

Spécialisé dans les logiciels système pour IBM i

- **Control for i**
  - Cette présentation
- **Flash for i**
  - Faire une SAVE21 tous les jours sans arrêter la production

Entreprise créée il y a **10** ans

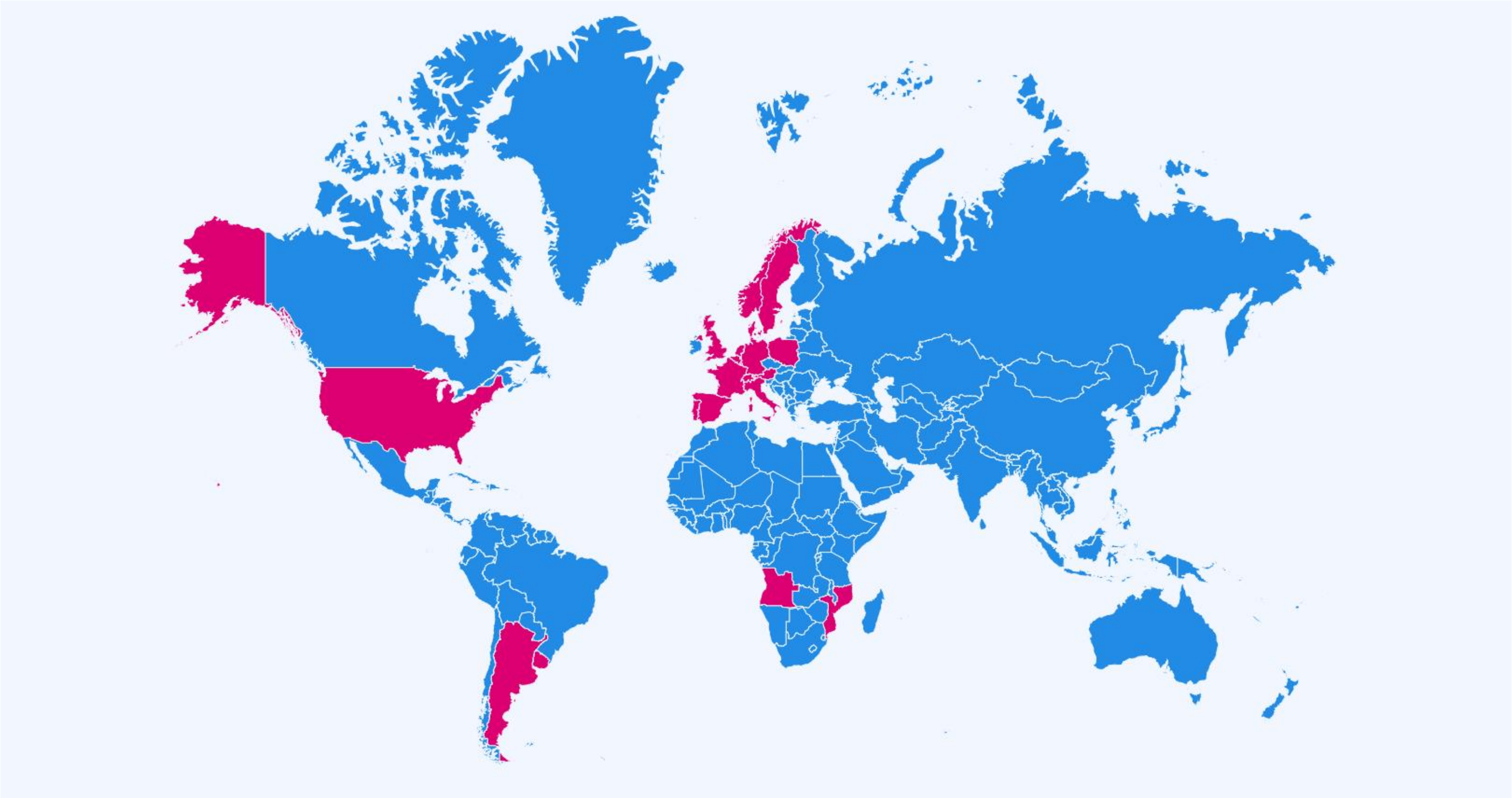
48 partenaires

23 pays

Plus de 600 clients finaux

Plus de 1000 partitions

Où sont les produits de M81



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CONTROL for i

for Business

Powered by M81 IBM i EDITOR

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ACMi · CAD INNOVATION · FRESCHE · GAIA · IBM · itheis · M81 IBM i EDITOR · precisely · REMAIN · resolution XCASE

Surveillance de l'infrastructure informatique

073 14:02:18
count + 006:58:50
STATIONS
OCC
SYSTEMS
ANTENNA
DOWNLINK
UPLINK
DATA HANDLING
TIMING
COMMS
RANGING
POWERPLANT
COMPUTER
VOICE

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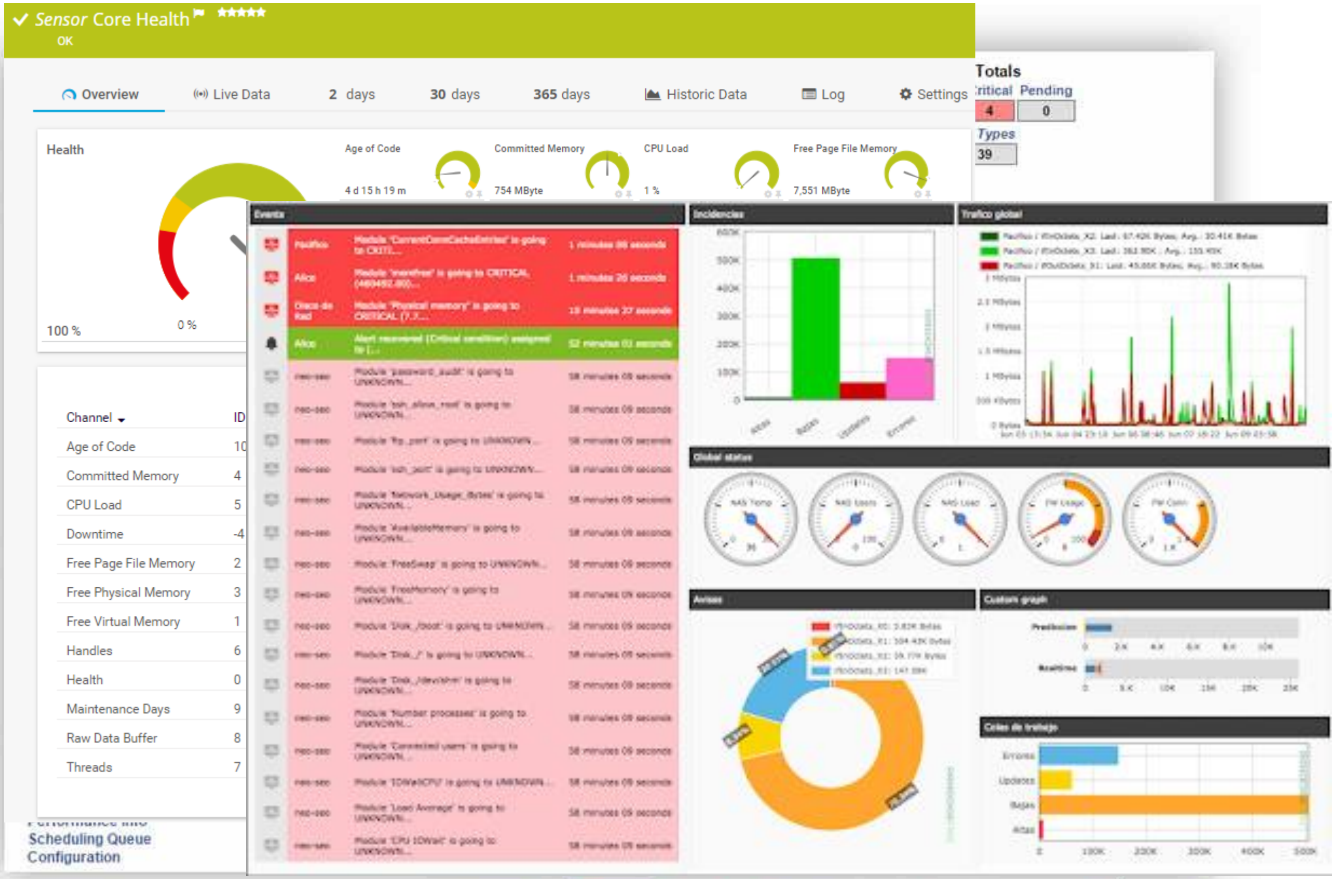
Surveillance de l'infrastructure informatique


Sensor Core Health
OK
Overview
Live Data
2 days
30 days
365 days
Historic Data
Log
Settings
Totals
Critical
Pending
4
0
Types
39
Health
100 %
0 %
Age of Code
4 d 15 h 19 m
Committed Memory
754 MByte
CPU Load
1 %
Free Page File Memory
7,551 MByte
Events
Incidencias
Trafico global
Global status
Avisos
Custom graph
Colas de trabajo
Scheduling Queue
Configuration

Channel	ID
Age of Code	10
Committed Memory	4
CPU Load	5
Downtime	-4
Free Page File Memory	2
Free Physical Memory	3
Free Virtual Memory	1
Handles	6
Health	0
Maintenance Days	9
Raw Data Buffer	8
Threads	7

Centreon Shinken ICINGA solarwinds coservit ServiceNav ZABBIX check MK …

Surveillance de l'infrastructure informatique

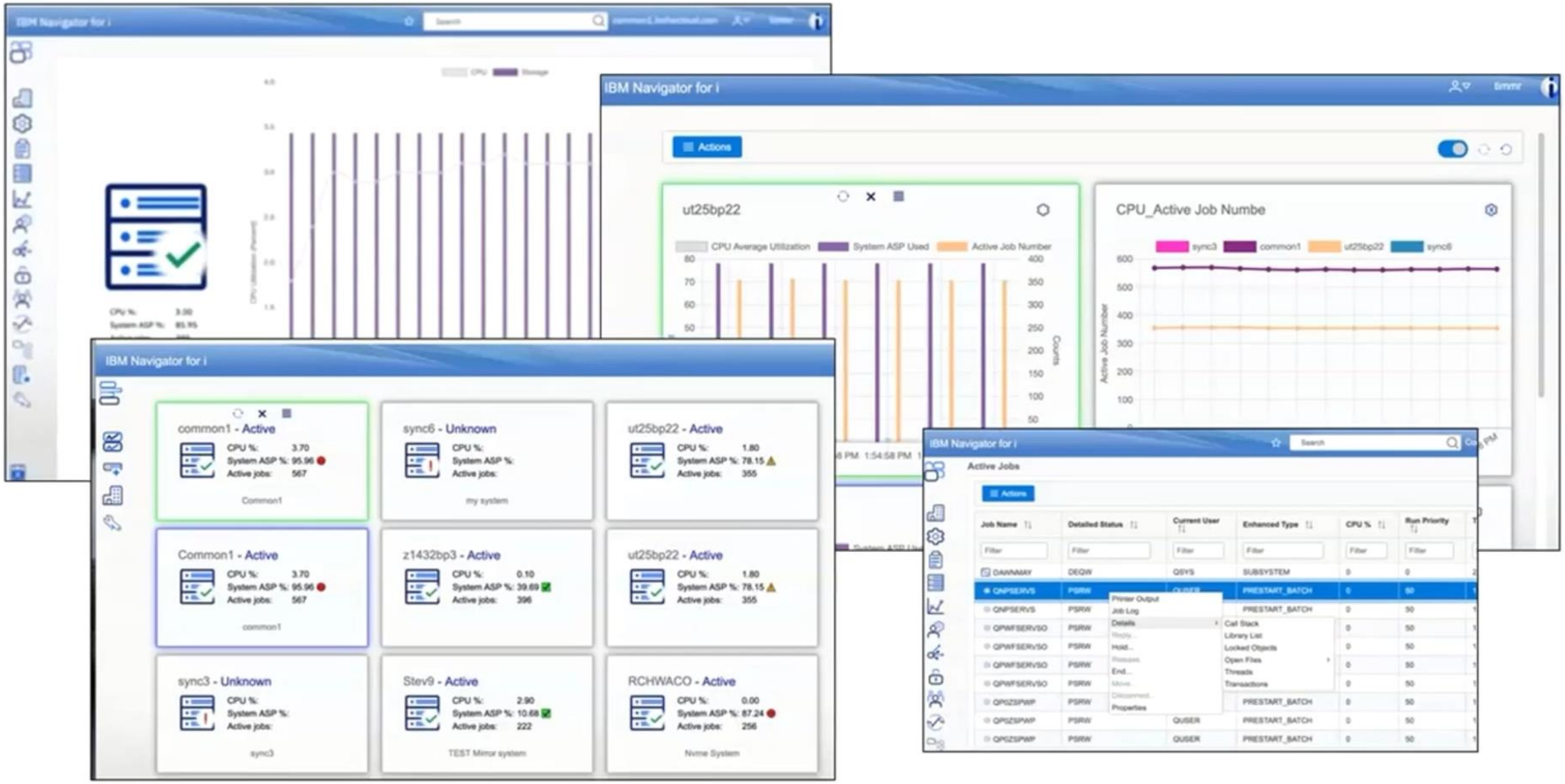
Une personne (ou une équipe) dédiée à la surveillance

- Niveau 1
    - Actions en utilisant des procédures
    - Meilleure réactivité
- Permet de soulager les administrateurs Windows, Linux, …
    - Ils peuvent se consacrer à d’autres tâches
    - Analyse des incidents les plus fréquents pour les éliminer

Gain de temps / ROI

Pourquoi l'IBM i est-il exclu de cette surveillance de l'entreprise ?

Pourquoi IBM i n'est pas surveillé par l'outil Enterprise ?


IBM Navigator for i
Search
CPU
Storage
Actions
ut25bp22
CPU Average Utilization
System ASP Used
Active Job Number
Counts
CPU_Active Job Numbe
sync3
common1
ut25bp22
sync6
Active Job Number
Printer Output
Job Log
Details
Reply...
Hold...
Release
End...
Move...
Disconnect...
Properties
Call Stack
Library List
Locked Objects
Open Files
Threads
Transactions

common1 - Active
CPU %: 3.70
System ASP %: 95.96 ●
Active jobs: 567
Common1

sync6 - Unknown
CPU %:
System ASP %:
Active jobs:
my system

ut25bp22 - Active
CPU %: 1.80
System ASP %: 78.15 ⚠
Active jobs: 355

Common1 - Active
CPU %: 3.70
System ASP %: 95.96 ●
Active jobs: 567
common1

z1432bp3 - Active
CPU %: 0.10
System ASP %: 39.69 ✓
Active jobs: 396

ut25bp22 - Active
CPU %: 1.80
System ASP %: 78.15 ⚠
Active jobs: 355

sync3 - Unknown
CPU %:
System ASP %:
Active jobs:
sync3

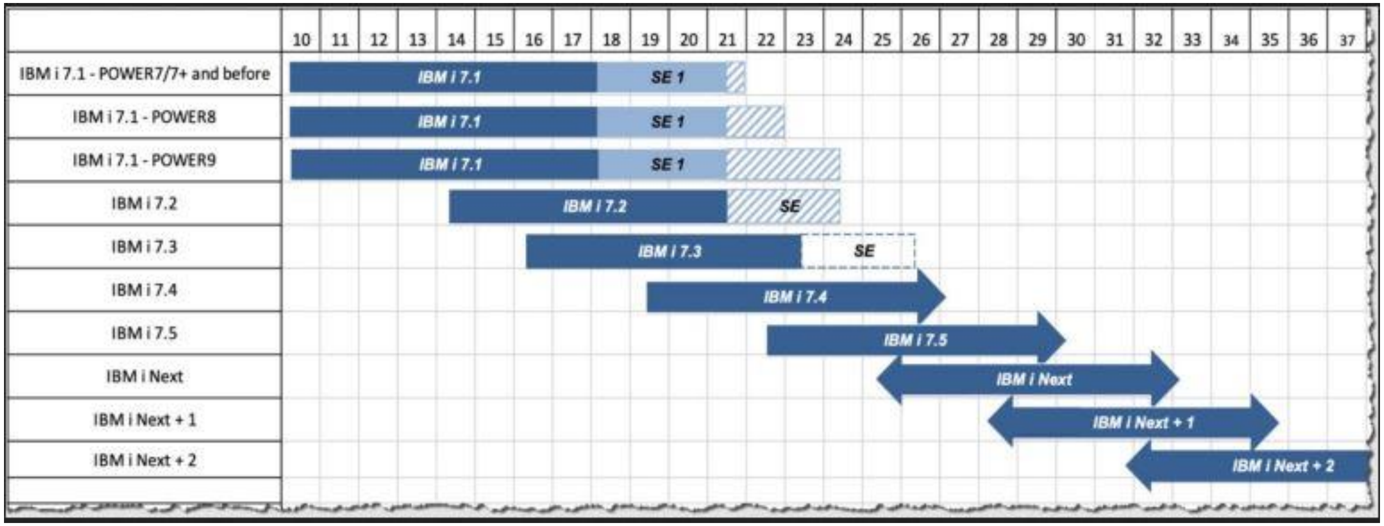
Stev9 - Active
CPU %: 2.90
System ASP %: 10.68 ✓
Active jobs: 222
TEST Mirror system

RCHWACO - Active
CPU %: 0.00
System ASP %: 87.24 ●
Active jobs: 256
Nvme System

Active Jobs

Job Name	Detailed Status	Current User	Enhanced Type	CPU %	Run Priority
DAWNMAY	DEQW	QSYS	SUBSYSTEM	0	0
QNPSERVS	PSRW	QUSER	PRESTART_BATCH	0	50
QNPSERVS	PSRW		PRESTART_BATCH	0	50
QPWFSERVSO	PSRW			0	50
QPWFSERVSO	PSRW			0	50
QPWFSERVSO	PSRW			0	50
QPWFSERVSO	PSRW			0	50
QPGZSPWP	PSRW		PRESTART_BATCH	0	50
QPGZSPWP	PSRW	QUSER	PRESTART_BATCH	0	50
QPGZSPWP	PSRW	QUSER	PRESTART_BATCH	0	50

Pourquoi IBM i n'est pas surveillé par l'outil Enterprise ?



Pourquoi IBM i n'est pas surveillé par l'outil Enterprise ?

Serveur très stable

- pas besoin de contrôle

Un administrateur IBM i très compétent

- toujours disponible
- très impliqué dans le suivi de "son" système

Ou même parfois, pas d'administrateur du tout

- Justement parce que ce système est très stable

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Pourquoi IBM i n'est pas surveillé par l'outil Enterprise ?

Mais il y a parfois des surprises

et c'est un désastre

Pas de sauvegardes pendant 2 mois

La haute disponibilité n'est pas synchronisée

- plusieurs fichiers ne sont plus répliqués

L'espace disque est saturé

...

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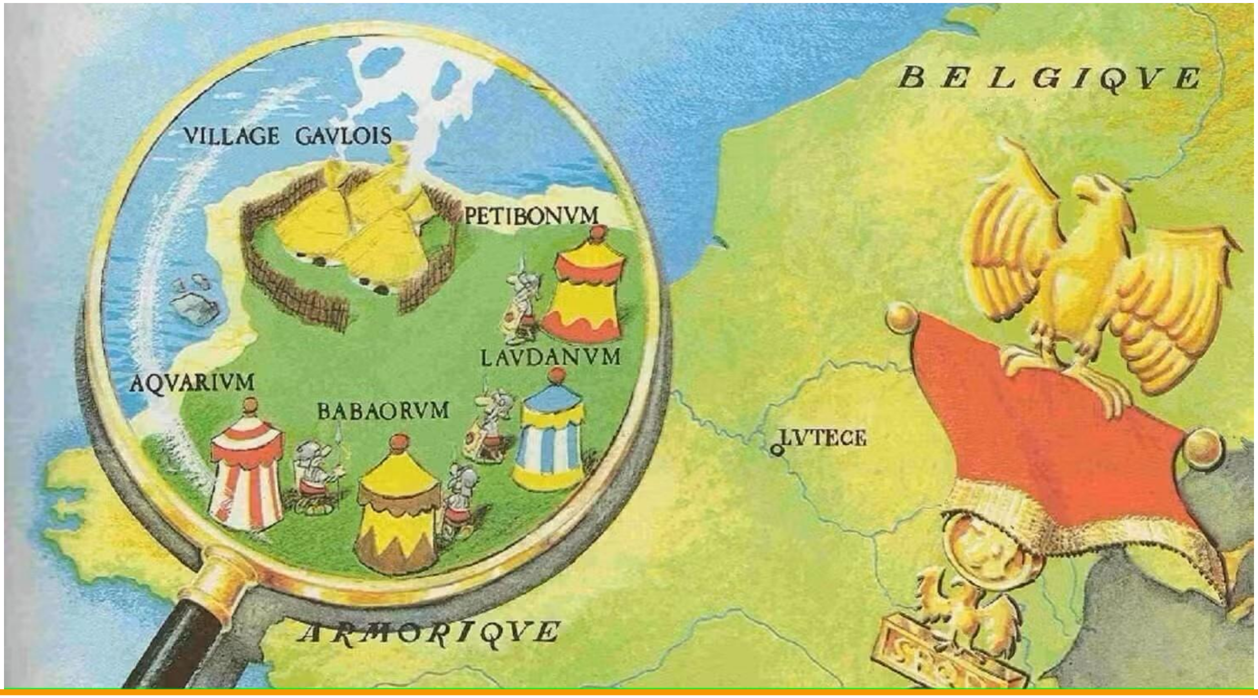
Surveillance de l'infrastructure informatique


BELGIQVE
VILLAGE GAVLOIS
PETIBONVM
LAVDANVM
AQVARIVM
BABAORVM
LVTECE
ARMORIQVE

Dommage d'avoir une infrastructure de surveillance d'entreprise
Et ne pas en profiter
pour l'IBM i.

Pourquoi IBM i n'est pas surveillé par l'outil Enterprise ?

Autres raisons ?

L'équipe de surveillance vient du "monde open".

- Windows, Linux, Unix, (machines à café avec IP)

Les administrateurs IBM i ne parlent pas le même langage

Des plugins existent pour superviser IBM i avec Nagios mais

- Syntaxe de type Linux
- Logique de type Linux
- Pas facile à tester pour les administrateurs IBM i
- Il s'agit uniquement de contrôles système. Pas de contrôles applicatifs

Plugin IBM pour Nagios

check-ibmi-active-job-num

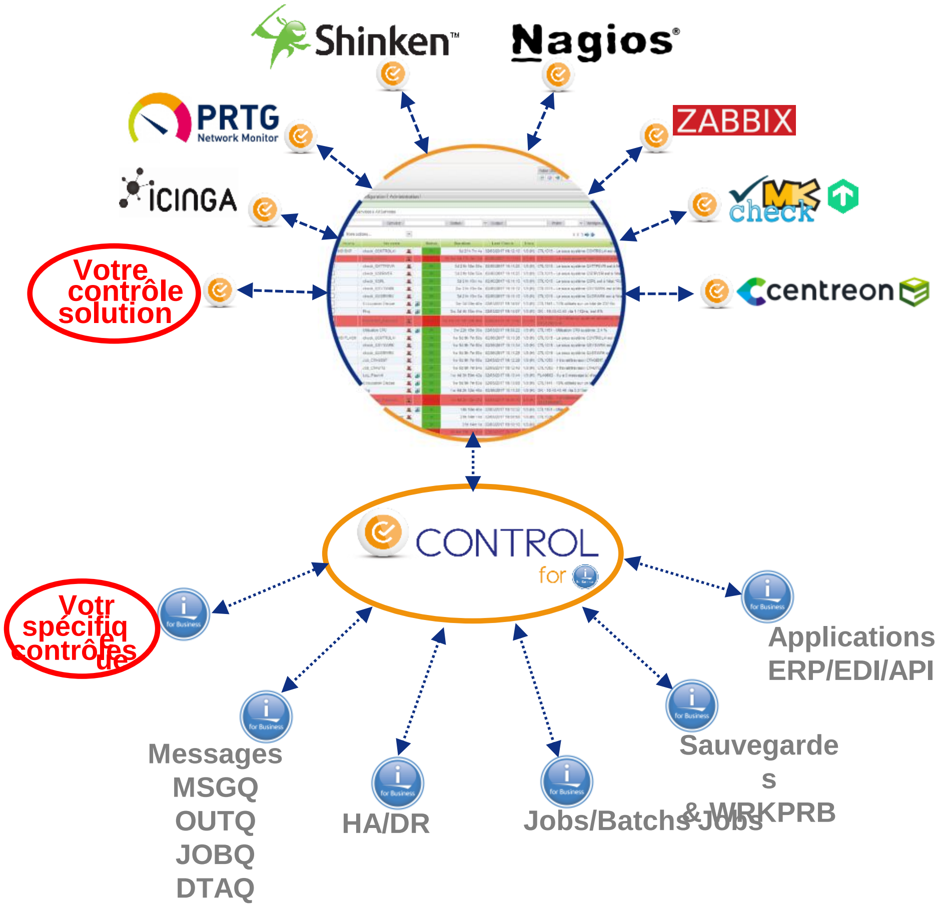
```
check_ibmi_status.sh -M ActiveJobs -W $ARG1$ -C $ARG2$
```

check-ibmi-subsystem-jobs

```
check_ibmi_status.sh -M SubsystemJobs -S $ARG1$ -W $ARG2$ -C $ARG3$
```

check-ibmi-specific-message

```
check_ibmi_status.sh -M SpecificMessage -I $ARG1$
```



Shinken™

Nagios®

PRTG Network Monitor

ZABBIX

ICINGA

check MK

centreon

Votre contrôle solution

CONTROL for i

Votr spécifiq contrôles ue

Applications ERP/EDI/API

Messages
MSGQ
OUTQ
JOBQ
DTAQ

HA/DR

Jobs/Batchs Jobs

Sauvegarde
s
& WRKPRB

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Surveillance en temps réel d'IBM i

Le produit « CONTROL for i » .

permet de surveiller une partition IBM i

en utilisant des commandes développées sur IBM i

- ✓ Ces commandes sont **naturelles** pour les spécialistes IBM i
- ✓ Facile à tester **sur IBM i avant** de les intégrer dans Nagios
- ✓ **Installation et paramétrage très simples** dans Nagios (ou autres),

- ✓ Il est possible d'adapter facilement les programmes **existants** dans "Control for i", ou d'en développer de **nouveaux**

➔ 'Control for i' LE produit de surveillance pour IBM i développé par des spécialistes IBM i

for Business

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Démo en direct

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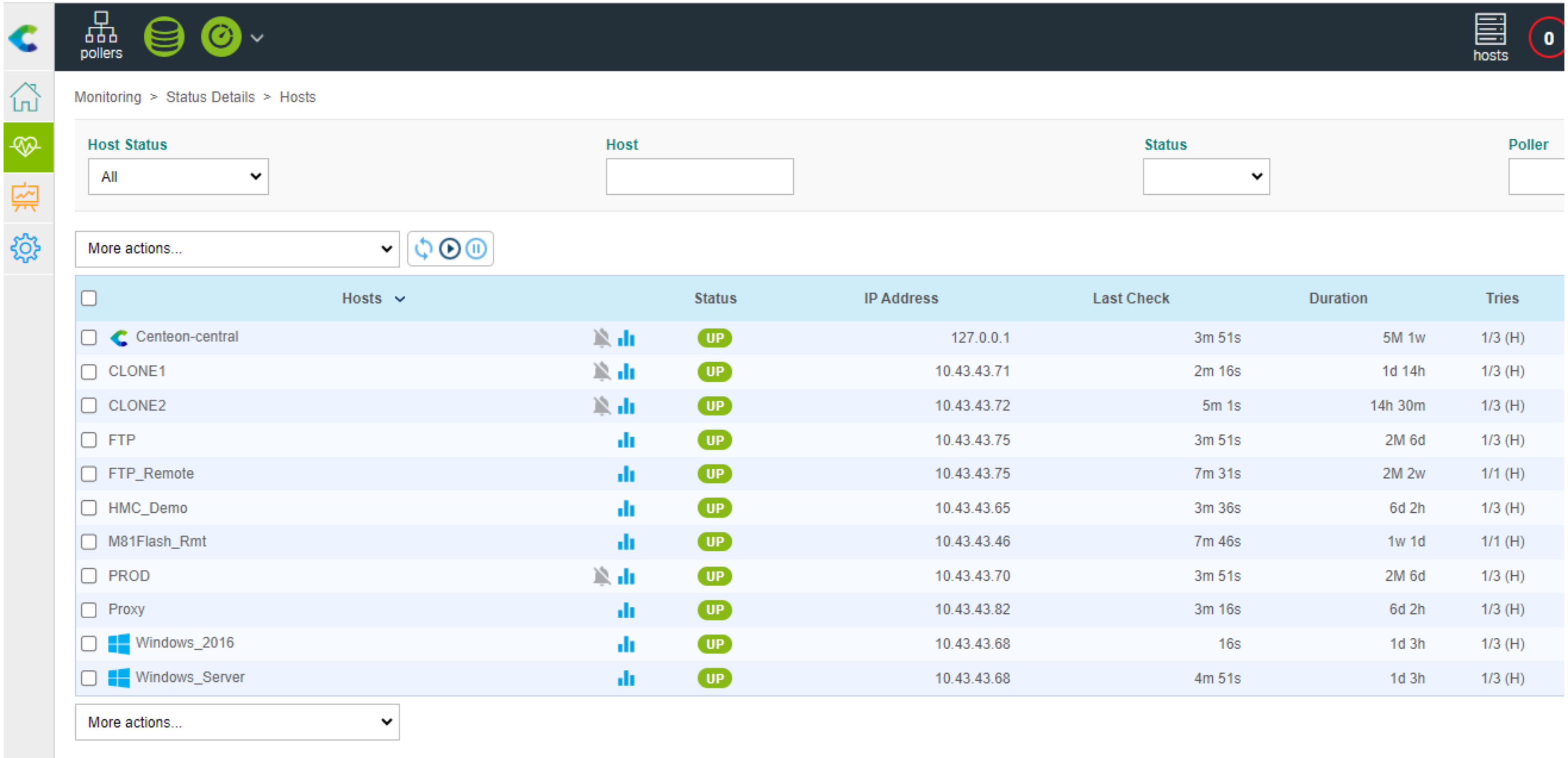
Démonstration

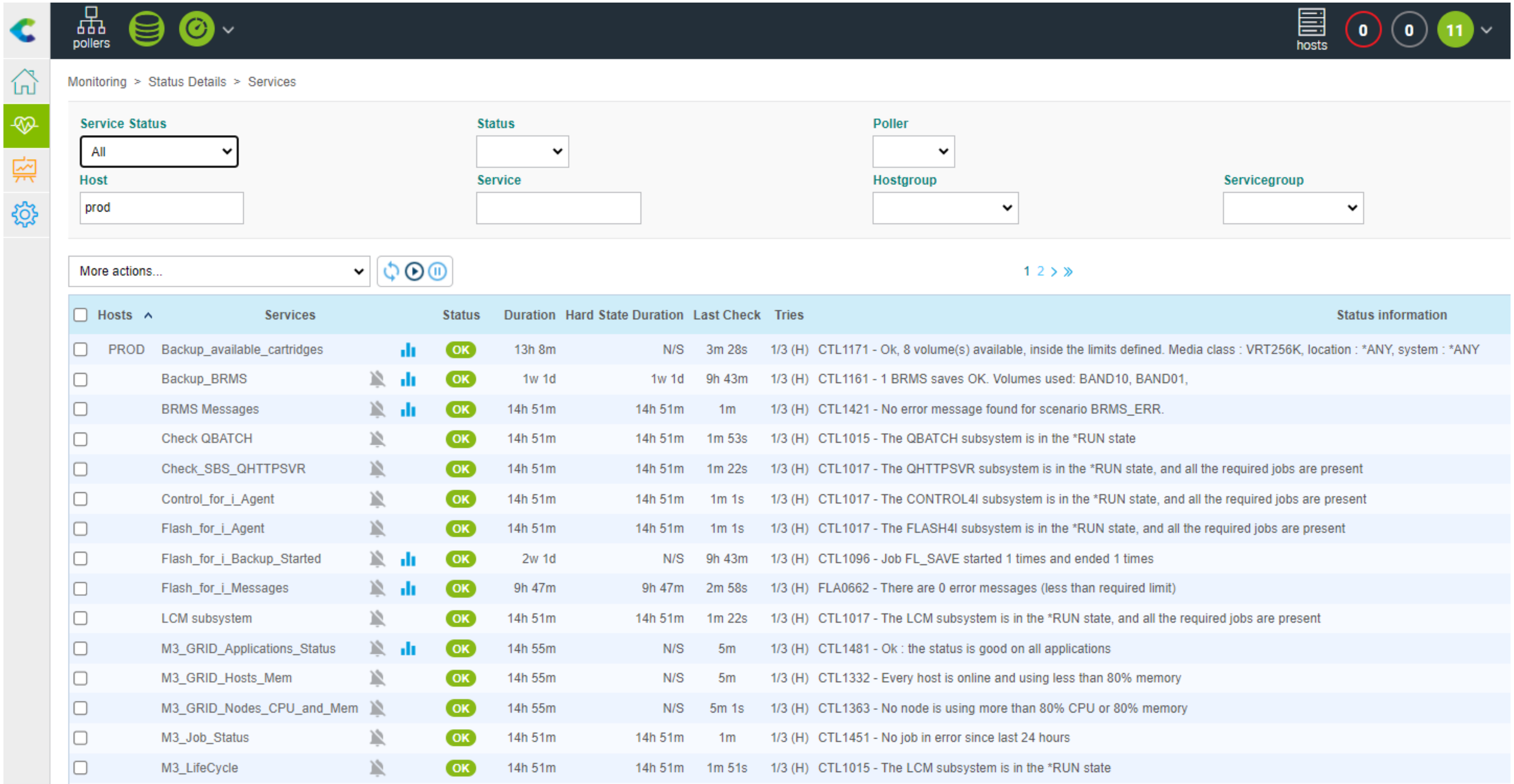


Monitoring > Status Details > Hosts

Host Status: All
Host:
Status:
Poller:

☐	Hosts	Status	IP Address	Last Check	Duration	Tries
☐	Centeon-central	UP	127.0.0.1	3m 51s	5M 1w	1/3 (H)
☐	CLONE1	UP	10.43.43.71	2m 16s	1d 14h	1/3 (H)
☐	CLONE2	UP	10.43.43.72	5m 1s	14h 30m	1/3 (H)
☐	FTP	UP	10.43.43.75	3m 51s	2M 6d	1/3 (H)
☐	FTP_Remote	UP	10.43.43.75	7m 31s	2M 2w	1/1 (H)
☐	HMC_Demo	UP	10.43.43.65	3m 36s	6d 2h	1/3 (H)
☐	M81Flash_Rmt	UP	10.43.43.46	7m 46s	1w 1d	1/1 (H)
☐	PROD	UP	10.43.43.70	3m 51s	2M 6d	1/3 (H)
☐	Proxy	UP	10.43.43.82	3m 16s	6d 2h	1/3 (H)
☐	Windows_2016	UP	10.43.43.68	16s	1d 3h	1/3 (H)
☐	Windows_Server	UP	10.43.43.68	4m 51s	1d 3h	1/3 (H)

Démonstration

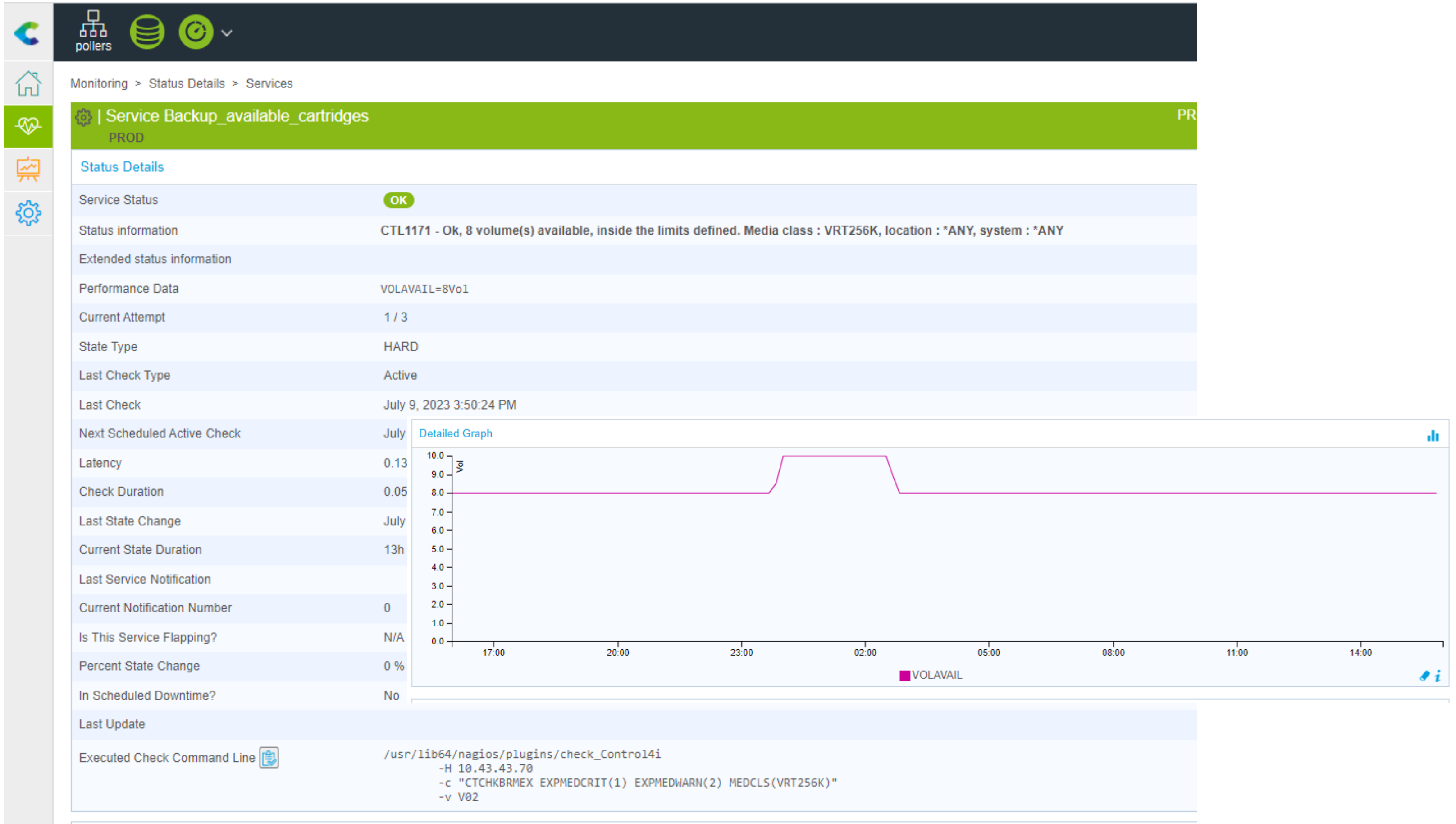


Monitoring > Status Details > Services

Service Status: All
Status:
Poller:
Host: prod
Service:
Hostgroup:
Servicegroup:

☐	Hosts	Services	Status	Duration	Hard State Duration	Last Check	Tries	Status information
☐	PROD	Backup_available_cartridges	OK	13h 8m	N/S	3m 28s	1/3 (H)	CTL1171 - Ok, 8 volume(s) available, inside the limits defined. Media class : VRT256K, location : *ANY, system : *ANY
☐		Backup_BRMS	OK	1w 1d	1w 1d	9h 43m	1/3 (H)	CTL1161 - 1 BRMS saves OK. Volumes used: BAND10, BAND01,
☐		BRMS Messages	OK	14h 51m	14h 51m	1m	1/3 (H)	CTL1421 - No error message found for scenario BRMS_ERR.
☐		Check QBATCH	OK	14h 51m	14h 51m	1m 53s	1/3 (H)	CTL1015 - The QBATCH subsystem is in the *RUN state
☐		Check_SBS_QHTTPSVR	OK	14h 51m	14h 51m	1m 22s	1/3 (H)	CTL1017 - The QHTTPSVR subsystem is in the *RUN state, and all the required jobs are present
☐		Control_for_i_Agent	OK	14h 51m	14h 51m	1m 1s	1/3 (H)	CTL1017 - The CONTROL4I subsystem is in the *RUN state, and all the required jobs are present
☐		Flash_for_i_Agent	OK	14h 51m	14h 51m	1m 1s	1/3 (H)	CTL1017 - The FLASH4I subsystem is in the *RUN state, and all the required jobs are present
☐		Flash_for_i_Backup_Started	OK	2w 1d	N/S	9h 43m	1/3 (H)	CTL1096 - Job FL_SAVE started 1 times and ended 1 times
☐		Flash_for_i_Messages	OK	9h 47m	9h 47m	2m 58s	1/3 (H)	FLA0662 - There are 0 error messages (less than required limit)
☐		LCM subsystem	OK	14h 51m	14h 51m	1m 22s	1/3 (H)	CTL1017 - The LCM subsystem is in the *RUN state, and all the required jobs are present
☐		M3_GRID_Applications_Status	OK	14h 55m	N/S	5m	1/3 (H)	CTL1481 - Ok : the status is good on all applications
☐		M3_GRID_Hosts_Mem	OK	14h 55m	N/S	5m	1/3 (H)	CTL1332 - Every host is online and using less than 80% memory
☐		M3_GRID_Nodes_CPU_and_Mem	OK	14h 55m	N/S	5m 1s	1/3 (H)	CTL1363 - No node is using more than 80% CPU or 80% memory
☐		M3_Job_Status	OK	14h 51m	14h 51m	1m	1/3 (H)	CTL1451 - No job in error since last 24 hours
☐		M3_LifeCycle	OK	14h 51m	14h 51m	1m 51s	1/3 (H)	CTL1015 - The LCM subsystem is in the *RUN state

Démonstration


pollers
Monitoring > Status Details > Services
PR
Detailed Graph
Vol
10.0
9.0
8.0
7.0
6.0
5.0
4.0
3.0
2.0
1.0
0.0
17:00
20:00
23:00
02:00
05:00
08:00
11:00
14:00
VOLAVAIL

| Service Backup_available_cartridges
PROD

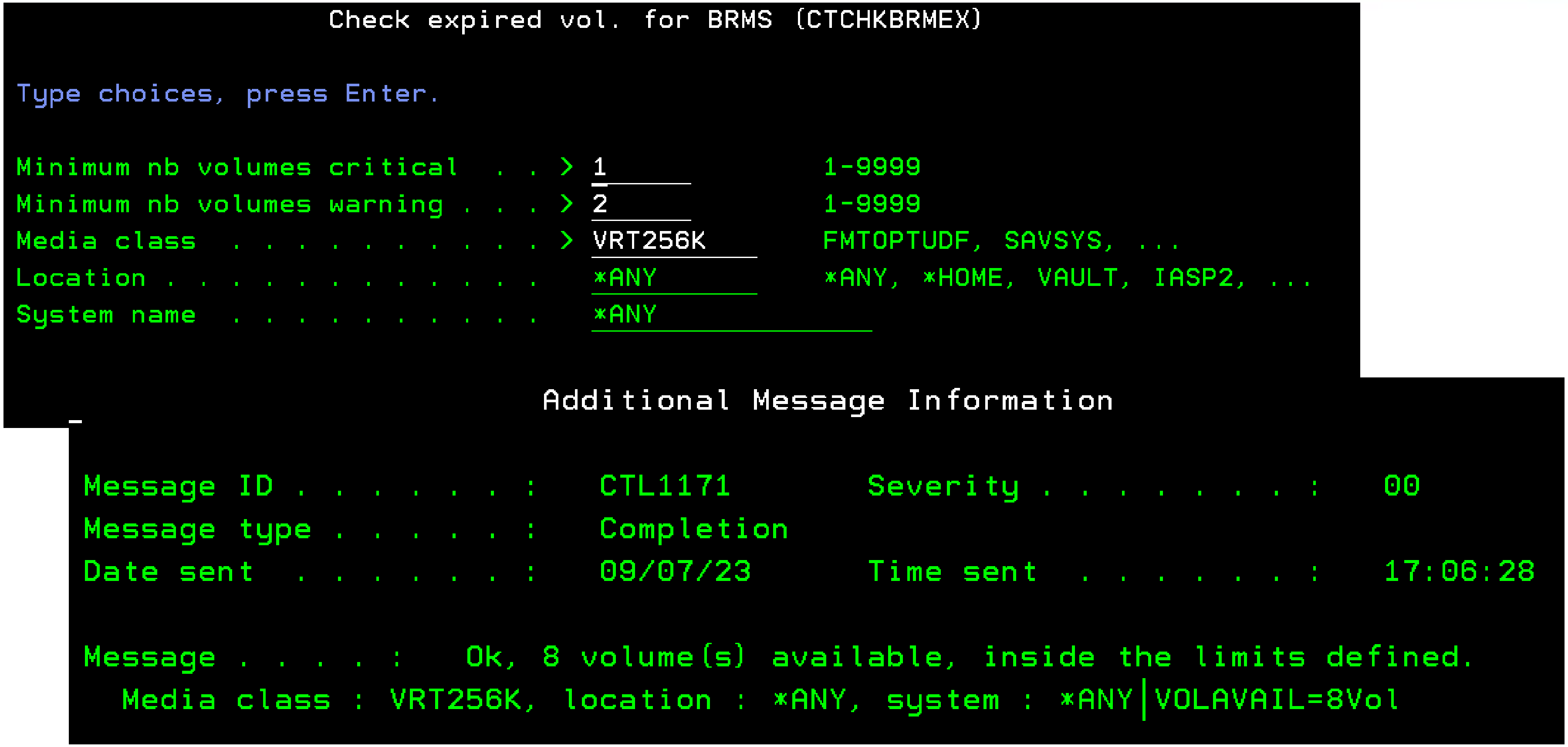
Status Details

Service Status	OK
Status information	CTL1171 - Ok, 8 volume(s) available, inside the limits defined. Media class : VRT256K, location : *ANY, system : *ANY
Extended status information	
Performance Data	`VOLAVAIL=8Vol`
Current Attempt	1 / 3
State Type	HARD
Last Check Type	Active
Last Check	July 9, 2023 3:50:24 PM
Next Scheduled Active Check	July
Latency	0.13
Check Duration	0.05
Last State Change	July
Current State Duration	13h
Last Service Notification	
Current Notification Number	0
Is This Service Flapping?	N/A
Percent State Change	0 %
In Scheduled Downtime?	No
Last Update	

Executed Check Command Line

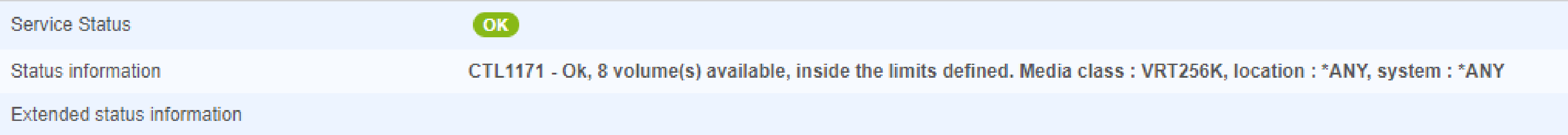
```
/usr/lib64/nagios/plugins/check_Control4i
        -H 10.43.43.70
        -c "CTCHKBRMEX EXPMEDCRIT(1) EXPMEDWARN(2) MEDCLS(VRT256K)"
        -v V02
```

Démonstration



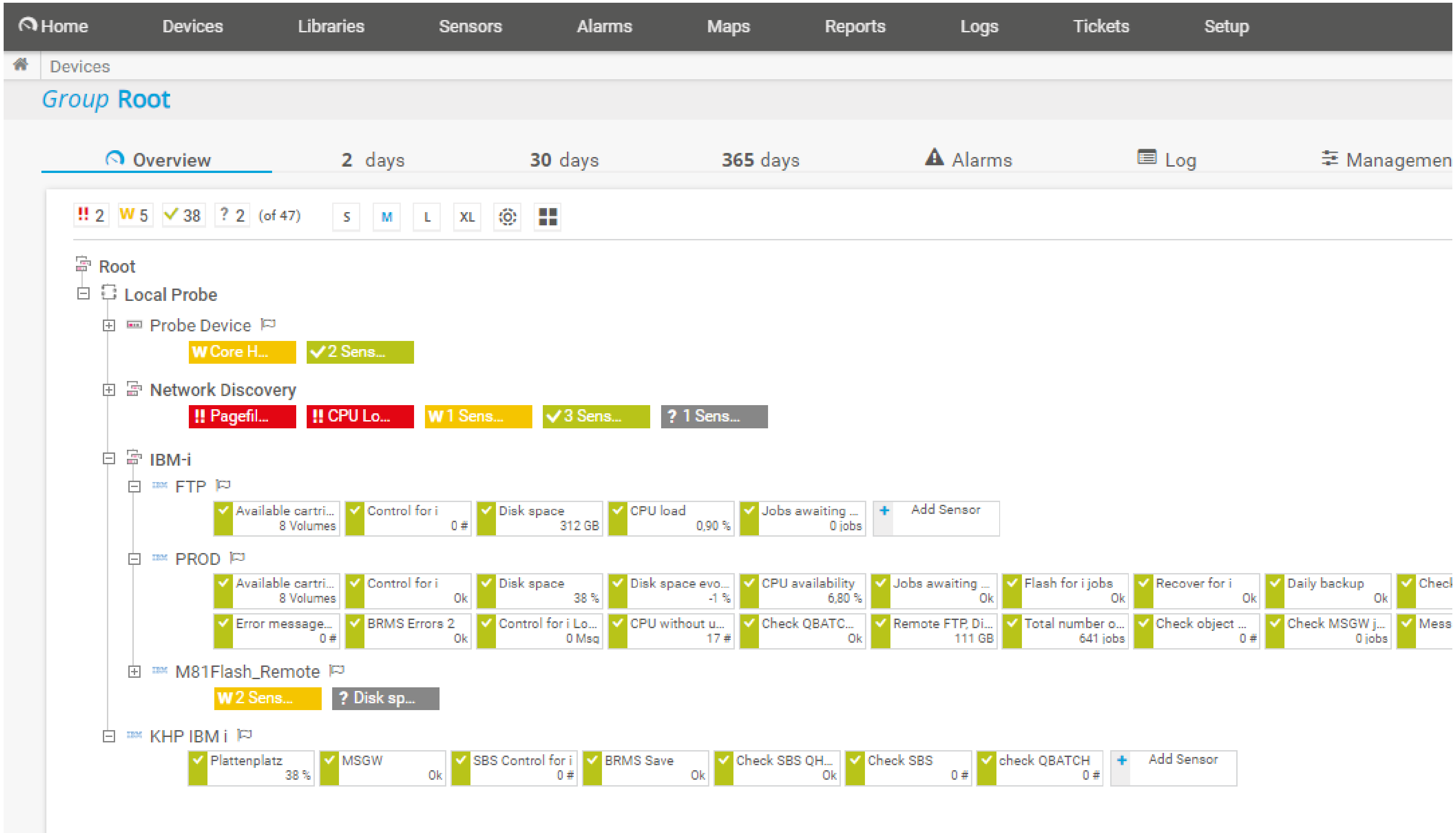
```
                 Check expired vol. for BRMS (CTCHKBRMEX)

Type choices, press Enter.

Minimum nb volumes critical . . > 1            1-9999
Minimum nb volumes warning . . . > 2            1-9999
Media class . . . . . . . . . . > VRT256K      FMTOPTUDF, SAVSYS, ...
Location . . . . . . . . . . . .  *ANY         *ANY, *HOME, VAULT, IASP2, ...
System name . . . . . . . . . .   *ANY
```

```
                 Additional Message Information

Message ID . . . . . . :   CTL1171      Severity . . . . . . . :   00
Message type . . . . . :   Completion
Date sent  . . . . . . :   09/07/23     Time sent  . . . . . . :   17:06:28

Message . . . . :   Ok, 8 volume(s) available, inside the limits defined.
  Media class : VRT256K, location : *ANY, system : *ANY|VOLAVAIL=8Vol
```



Service Status	OK
Status information	CTL1171 - Ok, 8 volume(s) available, inside the limits defined. Media class : VRT256K, location : *ANY, system : *ANY
Extended status information	

Démonstration

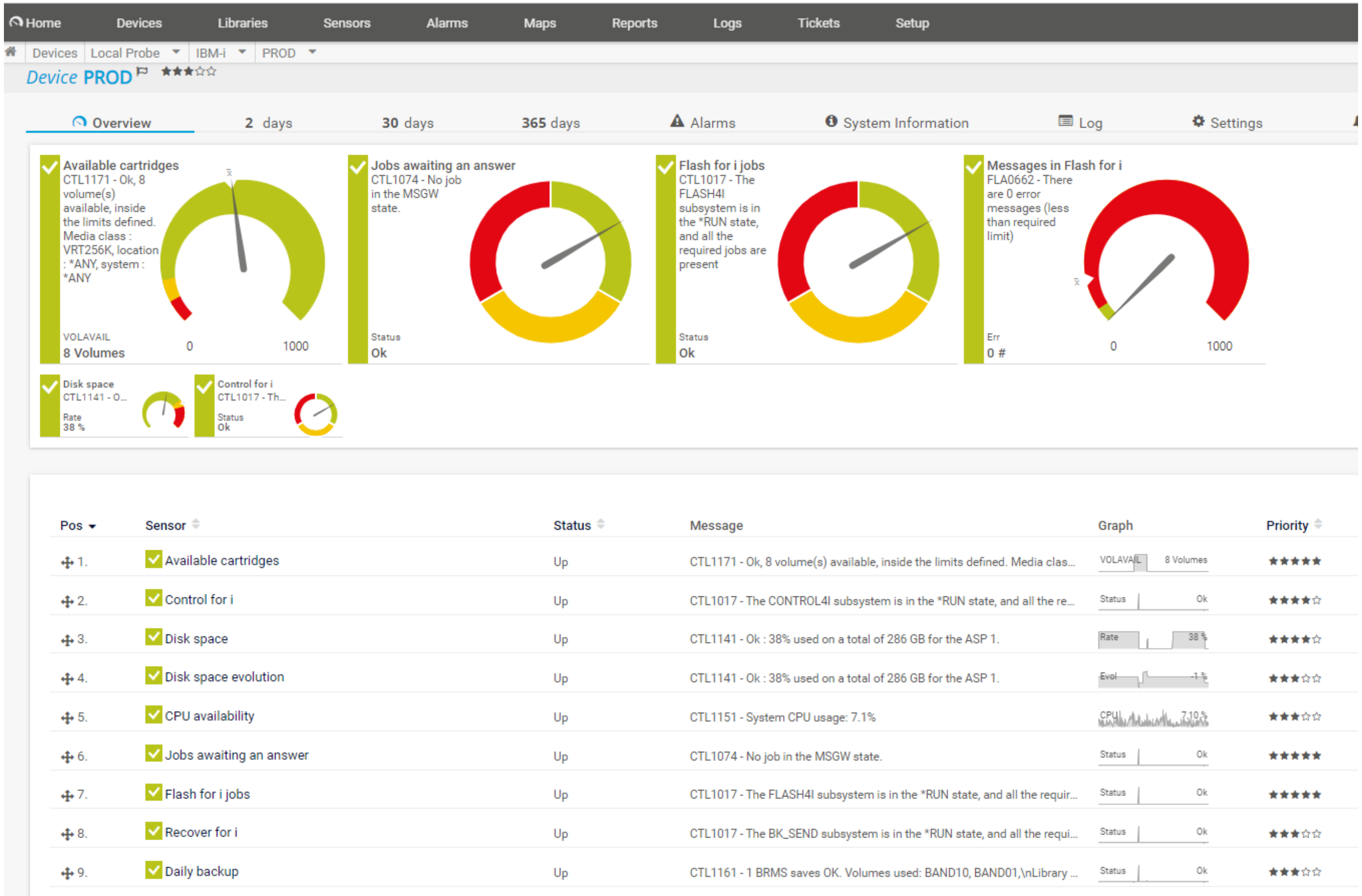

Home
Devices
Libraries
Sensors
Alarms
Maps
Reports
Logs
Tickets
Setup
Devices
Overview
2 days
30 days
365 days
Alarms
Log
Managemen
S
M
L
XL

Group **Root**

!! 2 W 5 ✓ 38 ? 2 (of 47)

Root
- Local Probe
  - Probe Device
    - W Core H...
    - ✓ 2 Sens...
  - Network Discovery
    - !! Pagefil...
    - !! CPU Lo...
    - W 1 Sens...
    - ✓ 3 Sens...
    - ? 1 Sens...
  - IBM-i
    - FTP
      - ✓ Available cartri... 8 Volumes
      - ✓ Control for i 0 #
      - ✓ Disk space 312 GB
      - ✓ CPU load 0,90 %
      - ✓ Jobs awaiting ... 0 jobs
      - + Add Sensor
    - PROD
      - ✓ Available cartri... 8 Volumes
      - ✓ Control for i Ok
      - ✓ Disk space 38 %
      - ✓ Disk space evo... -1 %
      - ✓ CPU availability 6,80 %
      - ✓ Jobs awaiting ... Ok
      - ✓ Flash for i jobs Ok
      - ✓ Recover for i Ok
      - ✓ Daily backup Ok
      - ✓ Checl
      - ✓ Error message... 0 #
      - ✓ BRMS Errors 2 Ok
      - ✓ Control for i Lo... 0 Msg
      - ✓ CPU without u... 17 #
      - ✓ Check QBATC... Ok
      - ✓ Remote FTP, Di... 111 GB
      - ✓ Total number o... 641 jobs
      - ✓ Check object ... 0 #
      - ✓ Check MSGW j... 0 jobs
      - ✓ Mess
    - M81Flash_Remote
      - W 2 Sens...
      - ? Disk sp...
  - KHP IBM i
    - ✓ Plattenplatz 38 %
    - ✓ MSGW Ok
    - ✓ SBS Control for i 0 #
    - ✓ BRMS Save Ok
    - ✓ Check SBS QH... Ok
    - ✓ Check SBS 0 #
    - ✓ check QBATCH 0 #
    - + Add Sensor

Démonstration


Home
Devices
Libraries
Sensors
Alarms
Maps
Reports
Logs
Tickets
Setup
Devices
Local Probe
IBM-i
PROD
Device PROD ★★★☆☆
Overview
2 days
30 days
365 days
Alarms
System Information
Log
Settings
0
1000
0
1000

✓ **Available cartridges**
CTL1171 - Ok, 8 volume(s) available, inside the limits defined. Media class : VRT256K, location : *ANY, system : *ANY
VOLAVAIL
8 Volumes

✓ **Jobs awaiting an answer**
CTL1074 - No job in the MSGW state.
Status
Ok

✓ **Flash for i jobs**
CTL1017 - The FLASH4I subsystem is in the *RUN state, and all the required jobs are present
Status
Ok

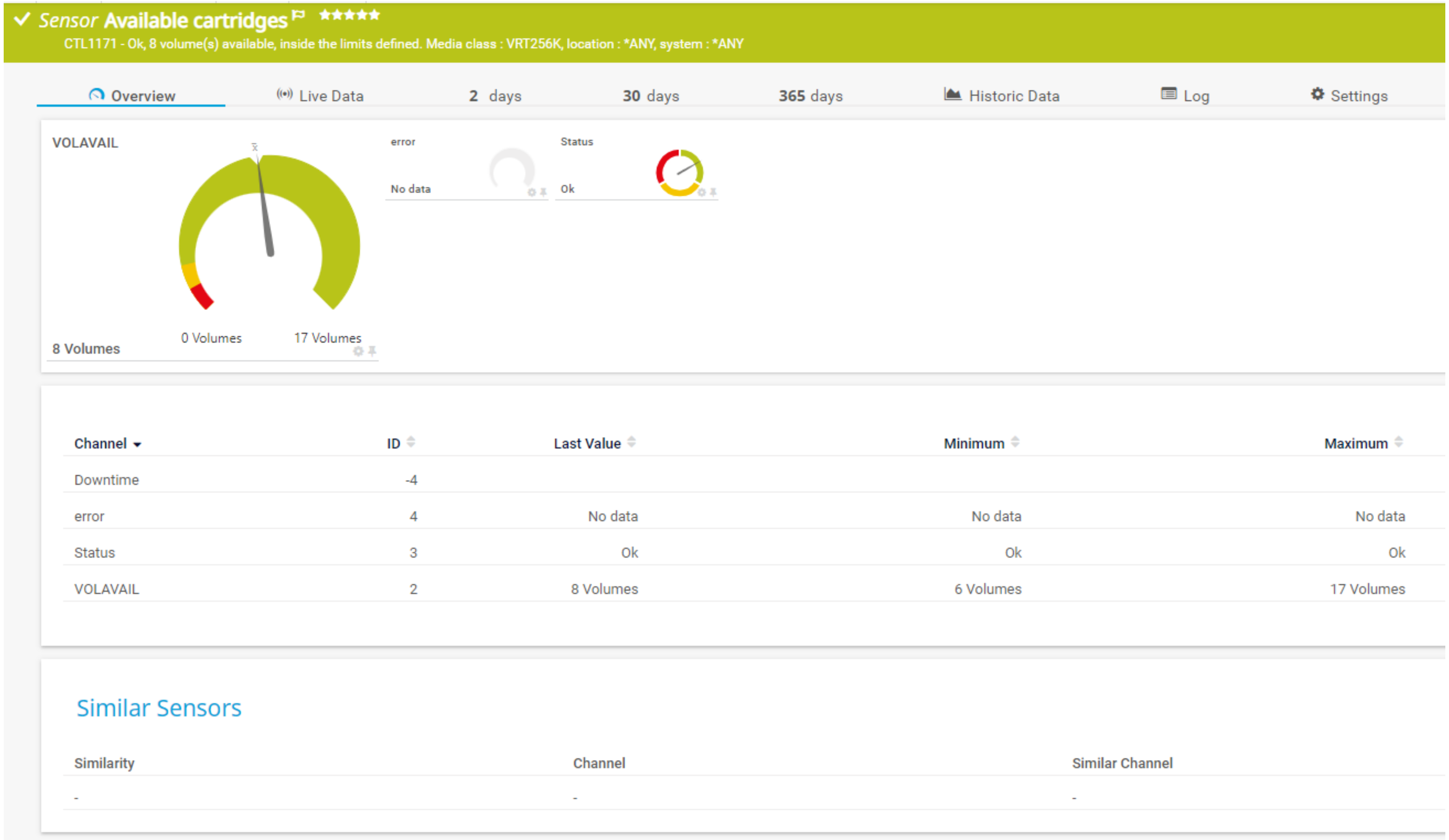
✓ **Messages in Flash for i**
FLA0662 - There are 0 error messages (less than required limit)
Err
0 #

✓ Disk space
CTL1141 - O...
Rate
38 %

✓ Control for i
CTL1017 - Th...
Status
Ok

Pos	Sensor	Status	Message	Graph	Priority
1.	✓ Available cartridges	Up	CTL1171 - Ok, 8 volume(s) available, inside the limits defined. Media clas...	VOLAVAIL 8 Volumes	★★★★★
2.	✓ Control for i	Up	CTL1017 - The CONTROL4I subsystem is in the *RUN state, and all the re...	Status Ok	★★★★☆
3.	✓ Disk space	Up	CTL1141 - Ok : 38% used on a total of 286 GB for the ASP 1.	Rate 38 %	★★★★☆
4.	✓ Disk space evolution	Up	CTL1141 - Ok : 38% used on a total of 286 GB for the ASP 1.	Evol -1 %	★★★☆☆
5.	✓ CPU availability	Up	CTL1151 - System CPU usage: 7.1%	CPU 7.10 %	★★★☆☆
6.	✓ Jobs awaiting an answer	Up	CTL1074 - No job in the MSGW state.	Status Ok	★★★★★
7.	✓ Flash for i jobs	Up	CTL1017 - The FLASH4I subsystem is in the *RUN state, and all the requir...	Status Ok	★★★★★
8.	✓ Recover for i	Up	CTL1017 - The BK_SEND subsystem is in the *RUN state, and all the requi...	Status Ok	★★★☆☆
9.	✓ Daily backup	Up	CTL1161 - 1 BRMS saves OK. Volumes used: BAND10, BAND01,\nLibrary ...	Status Ok	★★★☆☆

Démonstration


Overview
Live Data
2 days
30 days
365 days
Historic Data
Log
Settings

✓ *Sensor* **Available cartridges** ★★★★★

CTL1171 - Ok, 8 volume(s) available, inside the limits defined. Media class : VRT256K, location : *ANY, system : *ANY

VOLAVAIL

8 Volumes

0 Volumes

17 Volumes

error

No data

Status

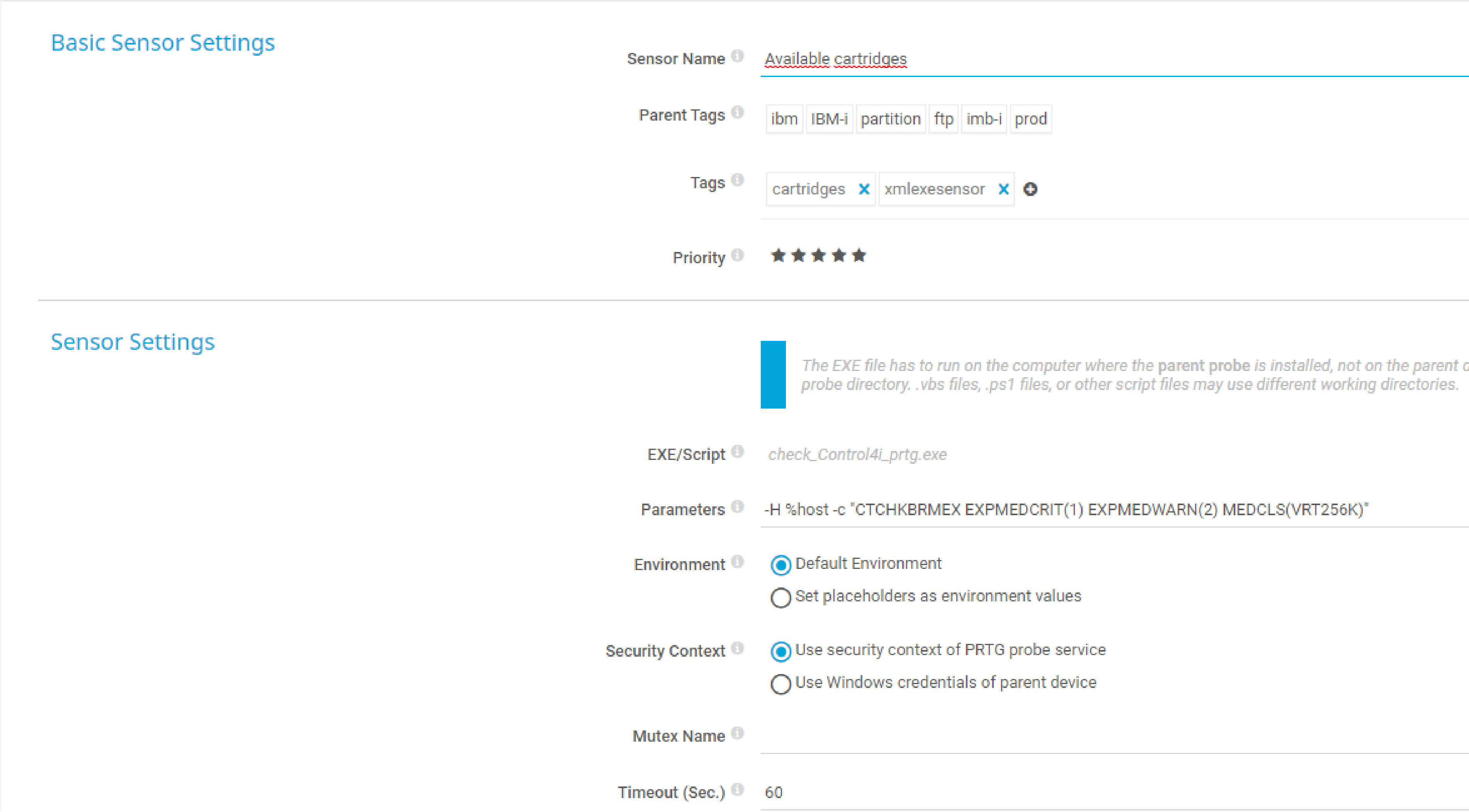
Ok

Channel	ID	Last Value	Minimum	Maximum
Downtime	-4			
error	4	No data	No data	No data
Status	3	Ok	Ok	Ok
VOLAVAIL	2	8 Volumes	6 Volumes	17 Volumes

Similar Sensors

Similarity	Channel	Similar Channel
-	-	-

Démonstration



Basic Sensor Settings

Sensor Name: Available cartridges

Parent Tags: ibm | IBM-i | partition | ftp | imb-i | prod

Tags: cartridges ✕ | xmlexesensor ✕

Priority: ★★★★★

Sensor Settings

*The EXE file has to run on the computer where the **parent probe** is installed, not on the parent c*
probe directory. .vbs files, .ps1 files, or other script files may use different working directories.

EXE/Script: *check_Control4i_prtg.exe*

Parameters: -H %host -c "CTCHKBRMEX EXPMEDCRIT(1) EXPMEDWARN(2) MEDCLS(VRT256K)"

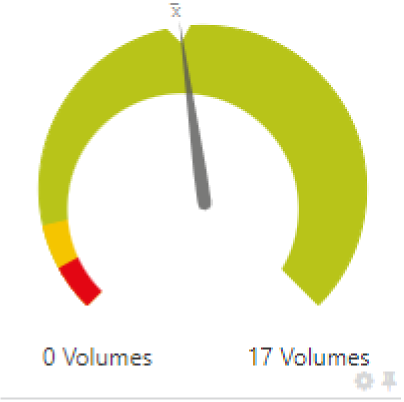
Environment:
● Default Environment
○ Set placeholders as environment values

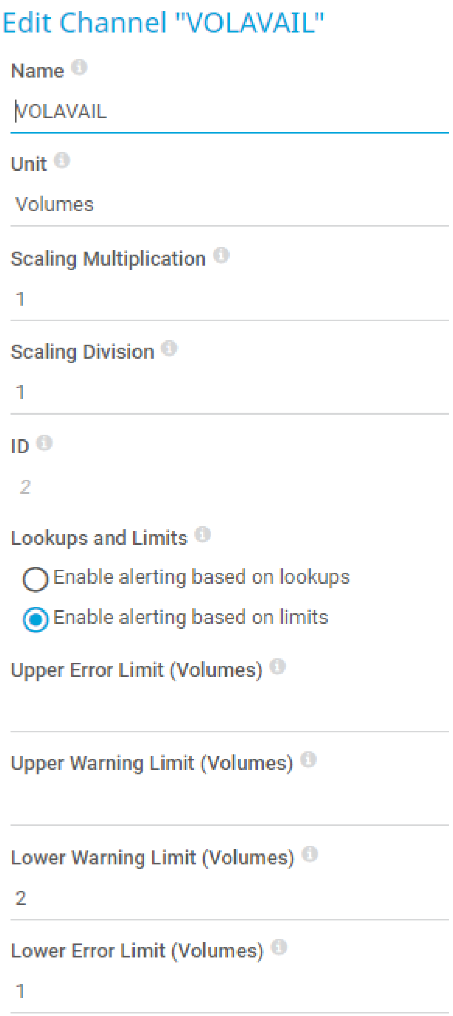
Security Context:
● Use security context of PRTG probe service
○ Use Windows credentials of parent device

Mutex Name:

Timeout (Sec.): 60

Démonstration





Edit Channel "VOLAVAIL"

Name
VOLAVAIL

Unit
Volumes

Scaling Multiplication
1

Scaling Division
1

ID
2

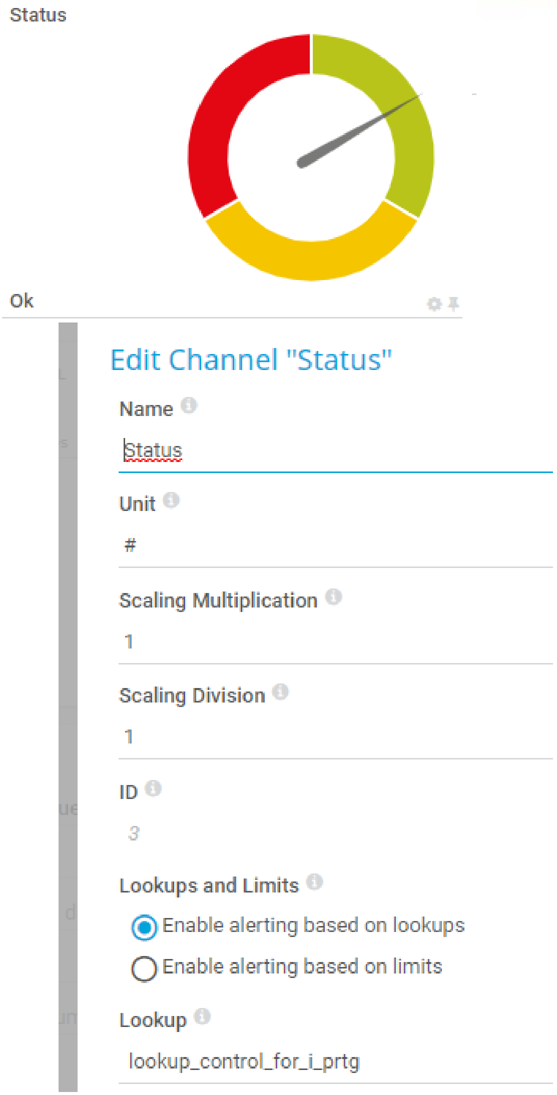
Lookups and Limits
○ Enable alerting based on lookups
● Enable alerting based on limits

Upper Error Limit (Volumes)

Upper Warning Limit (Volumes)

Lower Warning Limit (Volumes)
2

Lower Error Limit (Volumes)
1



Edit Channel "Status"

Name
Status

Unit
#

Scaling Multiplication
1

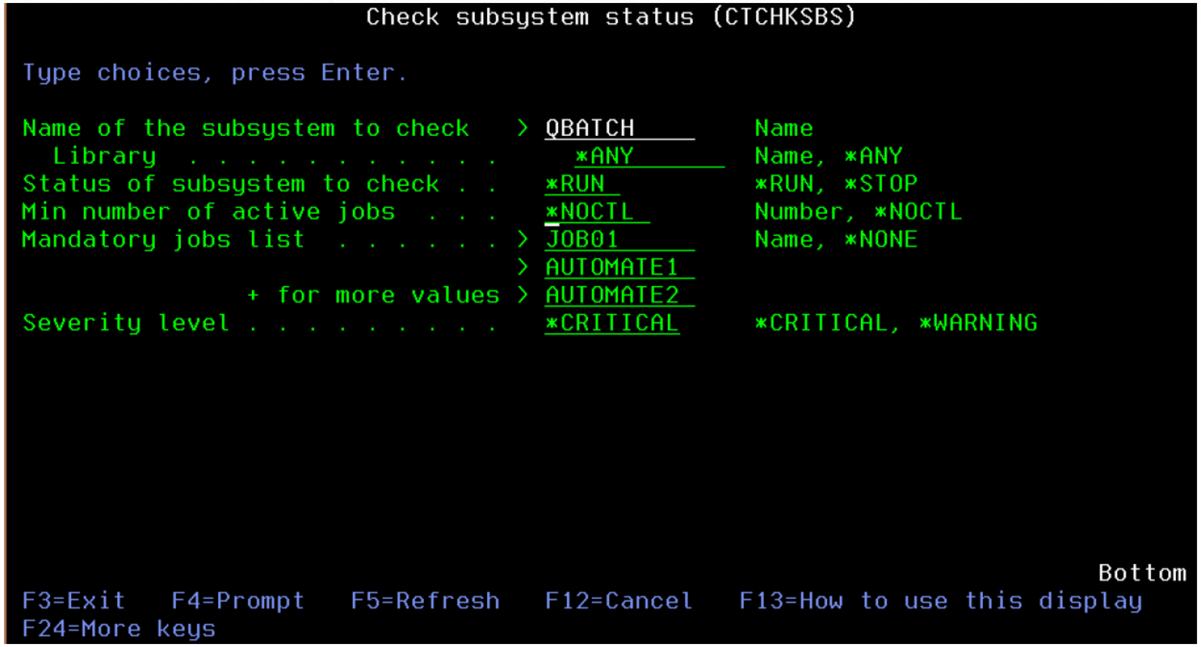
Scaling Division
1

ID
3

Lookups and Limits
● Enable alerting based on lookups
○ Enable alerting based on limits

Lookup
lookup_control_for_i_prtg

Exemple de commande : "CTCHKSBS"



```
                         Check subsystem status (CTCHKSBS)

Type choices, press Enter.

Name of the subsystem to check   > QBATCH          Name
  Library . . . . . . . . . . .      *ANY          Name, *ANY
Status of subsystem to check . .   *RUN            *RUN, *STOP
Min number of active jobs  . . .   *NOCTL          Number, *NOCTL
Mandatory jobs list  . . . . . . > JOB01           Name, *NONE
                                 > AUTOMATE1
               + for more values > AUTOMATE2
Severity level . . . . . . . . .   *CRITICAL       *CRITICAL, *WARNING










                                                                        Bottom
F3=Exit   F4=Prompt   F5=Refresh   F12=Cancel   F13=How to use this display
F24=More keys
```

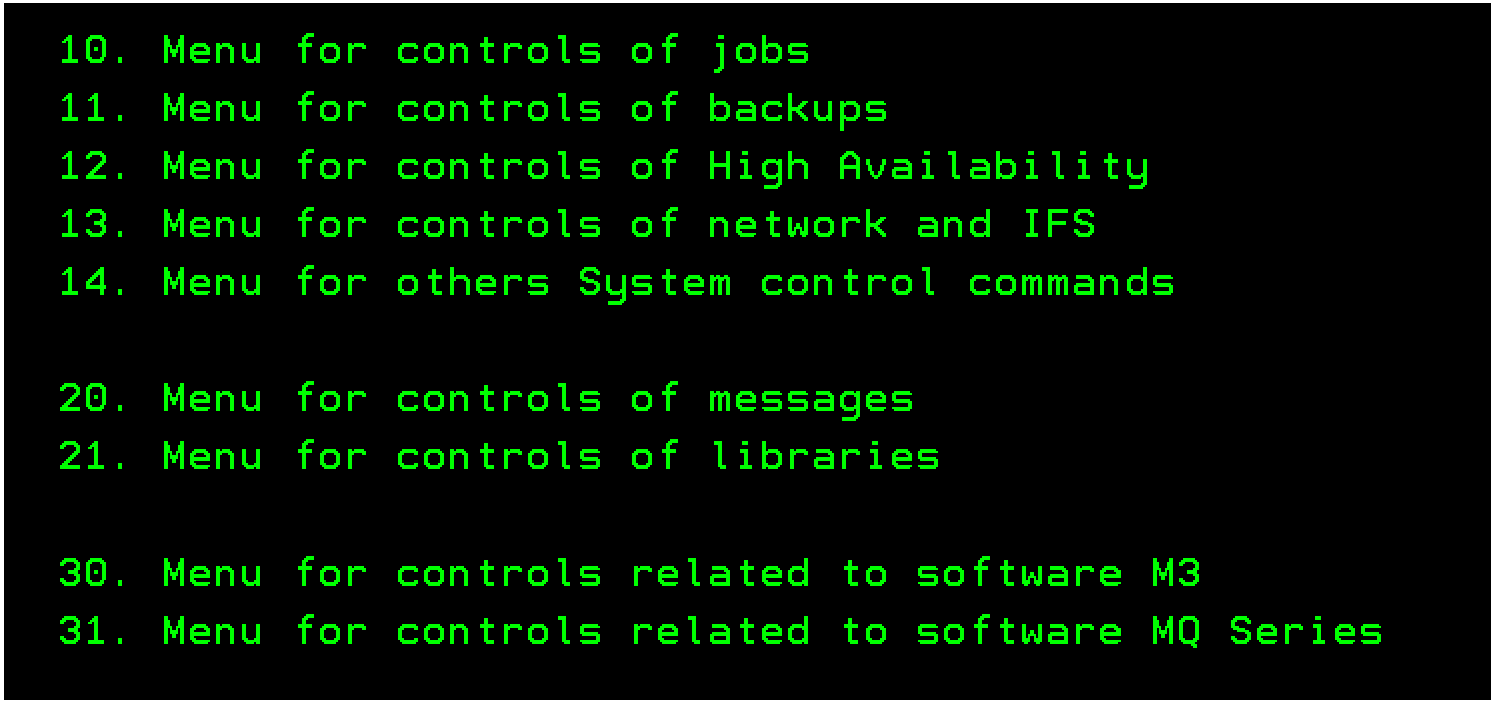
➔ Retour du message IBM i :

```
QBATCH subsystem, 3 job(s) is/are missing. The first 10 are JOB01,
  AUTOMATE1, AUTOMATE2, , , , , , , .
```

➔ La commande :

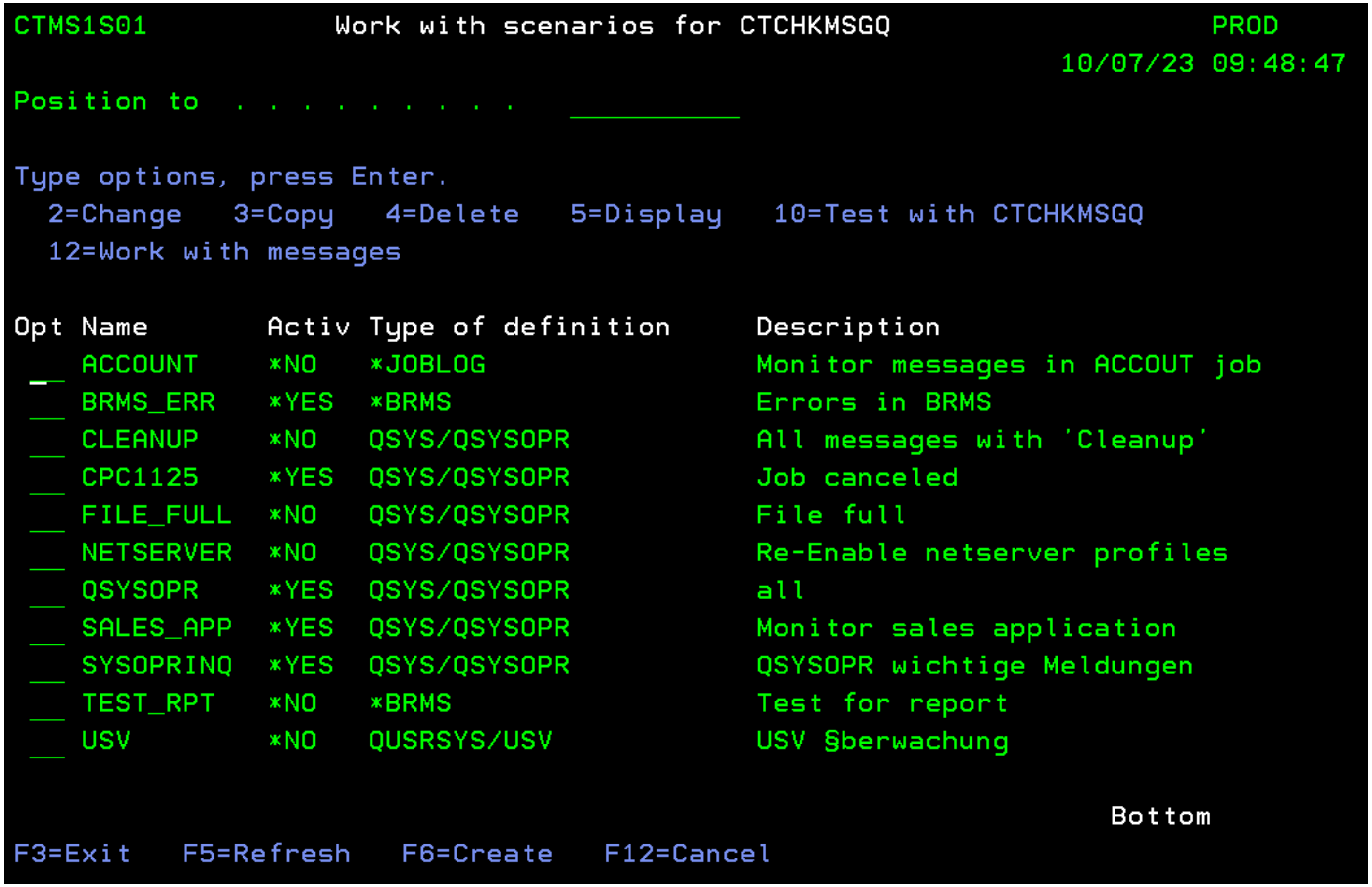
```
CTCHKSBS SBSD(QBATCH) LSTJOB(JOB01 AUTOMATE1 AUTOMATE2)
```

Démonstration



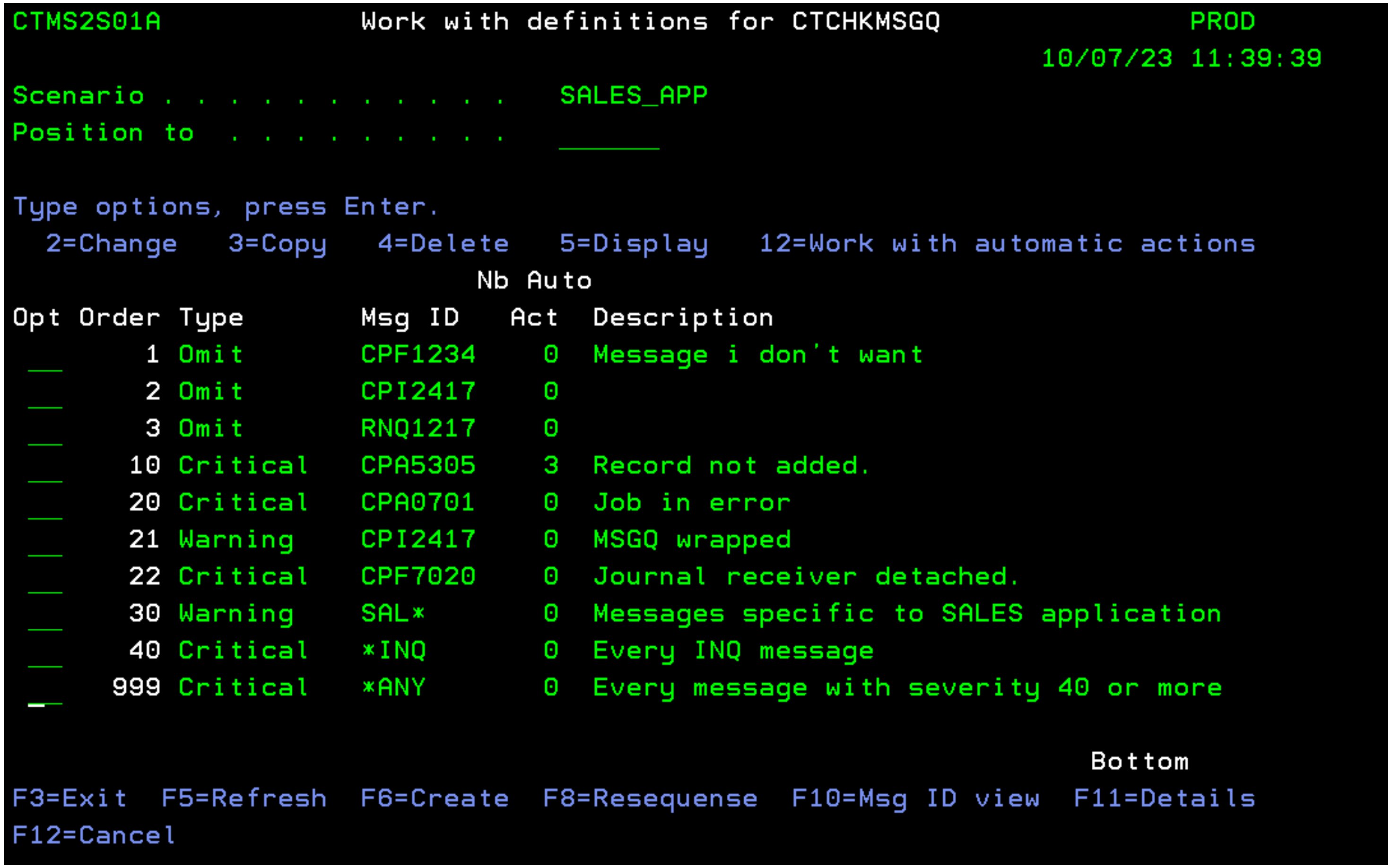
```
10. Menu for controls of jobs
11. Menu for controls of backups
12. Menu for controls of High Availability
13. Menu for controls of network and IFS
14. Menu for others System control commands

20. Menu for controls of messages
21. Menu for controls of libraries

30. Menu for controls related to software M3
31. Menu for controls related to software MQ Series
```

Gestion des messages



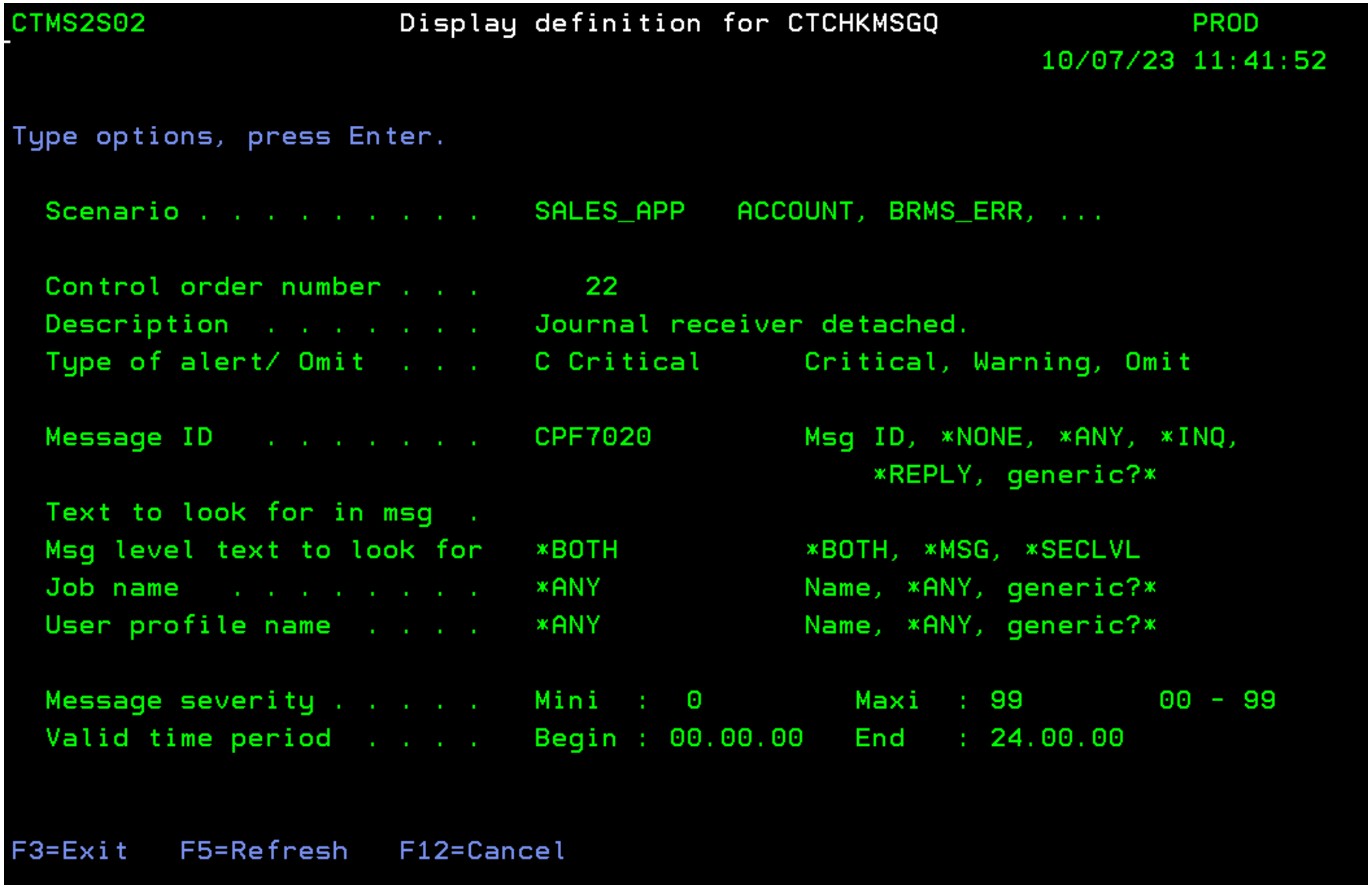
```
CTMS1S01             Work with scenarios for CTCHKMSGQ                   PROD
                                                                10/07/23 09:48:47
Position to . . . . . . . . .  __________

Type options, press Enter.
  2=Change   3=Copy   4=Delete   5=Display   10=Test with CTCHKMSGQ
  12=Work with messages

Opt Name       Activ Type of definition      Description
___ ACCOUNT    *NO   *JOBLOG                 Monitor messages in ACCOUT job
___ BRMS_ERR   *YES  *BRMS                   Errors in BRMS
___ CLEANUP    *NO   QSYS/QSYSOPR            All messages with 'Cleanup'
___ CPC1125    *YES  QSYS/QSYSOPR            Job canceled
___ FILE_FULL  *NO   QSYS/QSYSOPR            File full
___ NETSERVER  *NO   QSYS/QSYSOPR            Re-Enable netserver profiles
___ QSYSOPR    *YES  QSYS/QSYSOPR            all
___ SALES_APP  *YES  QSYS/QSYSOPR            Monitor sales application
___ SYSOPRINQ  *YES  QSYS/QSYSOPR            QSYSOPR wichtige Meldungen
___ TEST_RPT   *NO   *BRMS                   Test for report
___ USV        *NO   QUSRSYS/USV             USV §berwachung

                                                                     Bottom
F3=Exit   F5=Refresh   F6=Create   F12=Cancel
```

Gestion des messages



```
CTMS2S01A            Work with definitions for CTCHKMSGQ               PROD
                                                              10/07/23 11:39:39

Scenario . . . . . . . . . . .   SALES_APP
Position to  . . . . . . . . .   ______

Type options, press Enter.
  2=Change   3=Copy   4=Delete   5=Display   12=Work with automatic actions
                            Nb Auto
Opt Order Type       Msg ID   Act  Description
 __     1 Omit       CPF1234    0  Message i don't want
 __     2 Omit       CPI2417    0
 __     3 Omit       RNQ1217    0
 __    10 Critical   CPA5305    3  Record not added.
 __    20 Critical   CPA0701    0  Job in error
 __    21 Warning    CPI2417    0  MSGQ wrapped
 __    22 Critical   CPF7020    0  Journal receiver detached.
 __    30 Warning    SAL*       0  Messages specific to SALES application
 __    40 Critical   *INQ       0  Every INQ message
 __   999 Critical   *ANY       0  Every message with severity 40 or more

                                                                 Bottom
F3=Exit  F5=Refresh  F6=Create  F8=Resequense   F10=Msg ID view   F11=Details
F12=Cancel
```

Gestion des messages



```
CTMS2S02               Display definition for CTCHKMSGQ               PROD
                                                             10/07/23 11:41:52

Type options, press Enter.

  Scenario . . . . . . . . . .   SALES_APP   ACCOUNT, BRMS_ERR, ...

  Control order number . . .        22
  Description  . . . . . . . .   Journal receiver detached.
  Type of alert/ Omit  . . .     C Critical      Critical, Warning, Omit

  Message ID   . . . . . . . .   CPF7020         Msg ID, *NONE, *ANY, *INQ,
                                                     *REPLY, generic?*
  Text to look for in msg  .
  Msg level text to look for     *BOTH           *BOTH, *MSG, *SECLVL
  Job name   . . . . . . . . .   *ANY            Name, *ANY, generic?*
  User profile name  . . . . .   *ANY            Name, *ANY, generic?*

  Message severity . . . . . .   Mini  :   0        Maxi  : 99          00 - 99
  Valid time period  . . . . .   Begin : 00.00.00   End   : 24.00.00


F3=Exit    F5=Refresh    F12=Cancel
```

CONTROL
for i

Inclure les partitions IBM i

dans le processus de surveillance de votre entreprise.

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Pas de développement

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Les produits sont faciles à mettre à jour et M81 est toujours à l'écoute et ouvert à toutes les évolutions afin de bénéficier à l'ensemble de la communauté.

Arcelor Mittal,
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Marsh McLennan Companies,
Royaume-Uni et USA

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