

TP : Supervision informatique avec Checkmk

Contexte :

Station F souhaite améliorer la qualité de son SI et des services offerts aux startups et décide de surveiller les éléments critiques de son système d'information à l'aide de la solution de supervision « Checkmk »

Tâche 1 : Lister les éléments à surveiller dans le tableau ci-dessous

Elément supervisé	Mode de collecte	Métriques collectées
Proxmox	Agent checkmk	% d'utilisation (Processeur, RAM, stockage, réseau), ping

Tâche 2 : Installer checkmk

Prérequis :

- Un serveur Debian 12.
- Connexion Internet active.

Installation :

```
sudo apt update && sudo apt upgrade -y
```

Télécharger la dernière version de Checkmk (édition Raw) :

```
wget https://download.checkmk.com/checkmk/2.3.0p27/check-mk-raw-  
2.3.0p27_0.bookworm_amd64.deb
```

Installer le paquet checkmk :

```
sudo apt install ./check-mk-raw-2.3.0p27_0.bookworm_amd64.deb
```

Vérifier que checkmk s'est bien installé :

```
omd version
```

Résultat :

```
OMD - Open Monitoring Distribution Version 2.3.0p27.cre
```

Créer un site de supervision (monitoring site) :

```
sudo omd create sfparis
```

```
Adding /opt/omd/sites/sfparis/tmp to /etc/fstab.
Creating temporary filesystem /omd/sites/sfparis/tmp...OK
Updating core configuration...
Generating configuration for core (type nagios)...OK
Precompiling host checks...OK
Executing post-create script "01_create-sample-config.py"...OK
Executing post-create script "02_cmk-compute-api-spec"...OK
Restarting Apache...OK
Created new site sfparis with version 2.3.0p27.cre.

The site can be started with omd start sfparis.
The default web UI is available at http://debian/sfparis/

The admin user for the web applications is cmkadmin with password: b1c2yLrx8Rbj ↩
For command line administration of the site, log in with 'omd su sfparis'.
After logging in, you can change the password for cmkadmin with 'cmk-passwd cmkadmin'.
```

Démarrer le site :

```
sudo chmod 644 /home/user/check-mk-raw-2.3.0p27_0.bookworm_amd64.deb
user@debian:~$ sudo dpkg -i /home/user/check-mk-raw-
2.3.0p27_0.bookworm_amd64.deb
```

```
sudo mv /home/user/check-mk-raw-2.3.0p27_0.bookworm_amd64.deb /var/cache/apt/archives/
sudo apt install /var/cache/apt/archives/check-mk-raw-2.3.0p27_0.bookworm_amd64.deb
```

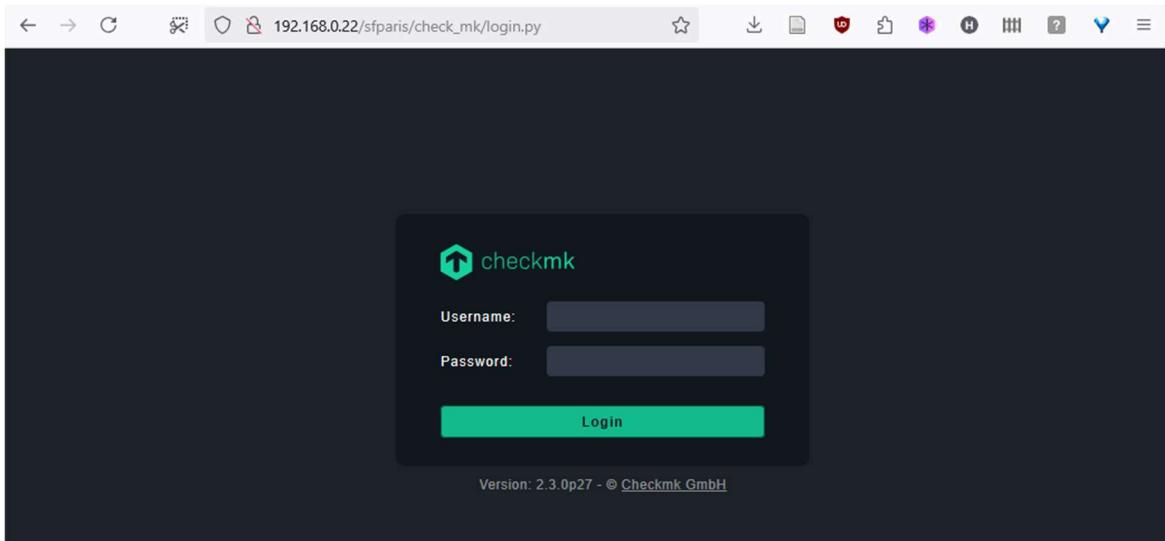
```
sudo omd su sfparis
```

```
sudo omd start sfparis
```

```
Temporary filesystem already mounted
Starting agent-receiver...OK
Starting mkeventd...OK
Starting rrdcached...OK
Starting npcd...OK
Starting nagios...OK
Starting apache...OK
Starting redis...OK
Initializing Crontab...OK
```

Accéder à la console web checkmk du site créé « sfparis » :

http://<ip_checkmk>/sfparis



Utiliser les identifiants générés durant la création du monitoring site.

The admin user for the web applications is cmkadmin with password: b1c2yLrX8RbJ ↵

TP : Supervision informatique avec Checkmk

Supervision de systèmes Windows avec un agent checkmk

Contexte :

Maintenant que checkmk est déployé, il faut superviser les serveurs physiques et virtuels de station f. La supervision se fait via un agent checkmk.

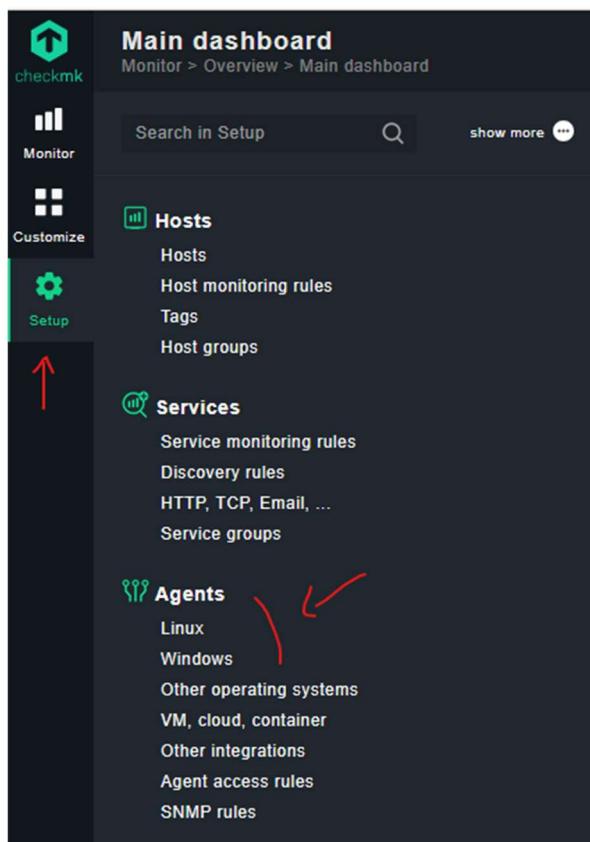
Procédure :

L'agent Checkmk :

Pour la surveillance d'un serveur ou d'un poste de travail, vous avez besoin d'un petit programme qui doit être installé sur l'ordinateur hôte : l'agent Checkmk.

Téléchargement de l'agent à partir de la page de téléchargement :

Des agents pour onze familles différentes de systèmes d'exploitation sont actuellement gérés dans le cadre du projet Checkmk. Tous ces agents sont des composants de Checkmk et peuvent être téléchargés via l'interface web du serveur Checkmk. L'accès à ces agents se fait par l'intermédiaire de Setup > Agents.



Windows files
Setup > Agents > Windows files

No pending changes

Packaged Agents

check_mk_agent.msi	13.84 MiB
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Example Configurations

mk_oracle_cfg.ps1	951.00 B
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Plugins

ad_replication.bat	1.20 KIB	arcserve_backup.ps1	5.26 KIB	citrix_farm.ps1	7.49 KIB	citrix_licenses.vbs	599.00 B
citrix_xenapp.ps1	576.00 B	hyperv_vms.ps1	163.00 B	hyperv_vms_guestinfos.ps1	3.42 KIB	iis_app_pool_state.ps1	1.90 KIB
kaspersky_av_client.vbs	4.31 KIB	mcafee_av_client.bat	1.24 KIB	megaraid.bat	2.05 KIB	mk_dhcp_enabled.bat	147.00 B
mk_inventory.vbs	13.95 KIB	mk_msoffice.ps1	1.04 KIB	mk_mysql.vbs	5.87 KIB	mk_oracle.ps1	105.05 KIB
msech_daq.ps1	418.00 B	msech_database.ps1	535.00 B	mssql.vbs	41.72 KIB	netstat_an.bat	127.00 B
nvidia_smi.ps1	836.00 B	rds_licenses.vbs	2.63 KIB	robotmk_agent_plugin.exe	8.74 MiB	rstcli.bat	489.00 B
sansymphony.ps1	4.00 KIB	storcli.bat	426.00 B	tsm_checks.bat	1.04 KIB	veeam_backup_status.ps1	6.58 KIB
win_dhcp_pools.bat	359.00 B	win_dmidetect.bat	479.00 B	win_license.bat	642.00 B	win_printers.ps1	1.92 KIB
windows_broadcom_bonding.bat	209.00 B	windows_if.ps1	2.97 KIB	windows_intel_bonding.bat	439.00 B	windows_multipath.vbs	658.00 B
windows_os_bonding.ps1	940.00 B	windows_tasks.ps1	3.00 KIB	windows_updates.vbs	3.67 KIB	wmic_if.bat	205.00 B

Scripts to integrate Nagios plugins

check_crit.bat	53.00 B	check_mail_loop.vbs	20.43 KiB
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Windows Agent

OpenHardwareMonitorCLI.exe	21.32 KIB	OpenHardwareMonitorLib.dll	312.81 KIB	check_mk.user.yml	17.46 KiB	mk-sql.exe	4.08 MiB
python-3.cab	22.09 MiB	rcc.exe	14.39 MiB	robotmk_ext.exe	567.00 KIB	robotmk_scheduler.exe	12.37 MiB
unsign-msi.patch	23.38 KIB	windows_files_hashes.txt	610.00 B				

Overview

Hosts	0	Unhandled p.	0
Services	0	Unhandled p.	0
Events	0	Unhandled p.	0

Bookmarks

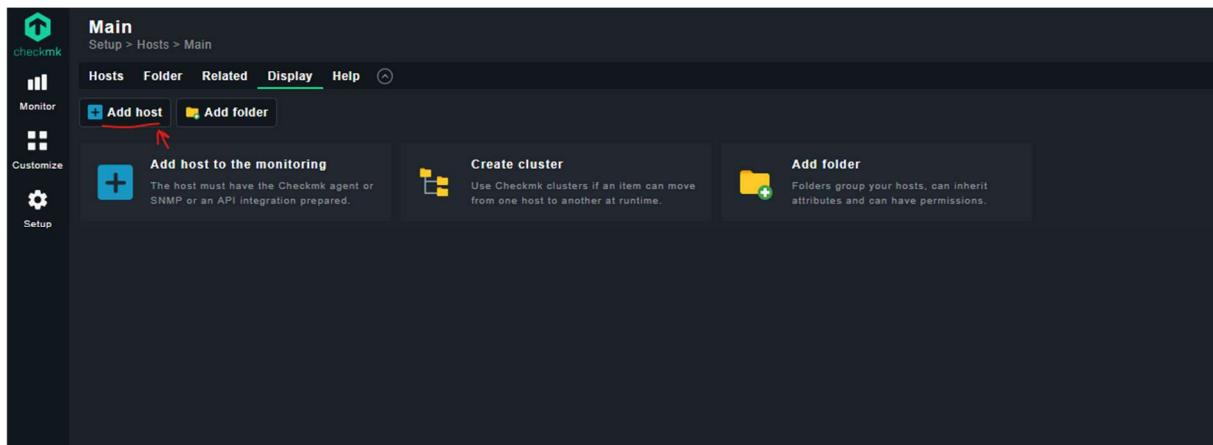
Add bookmark Edit

Master control

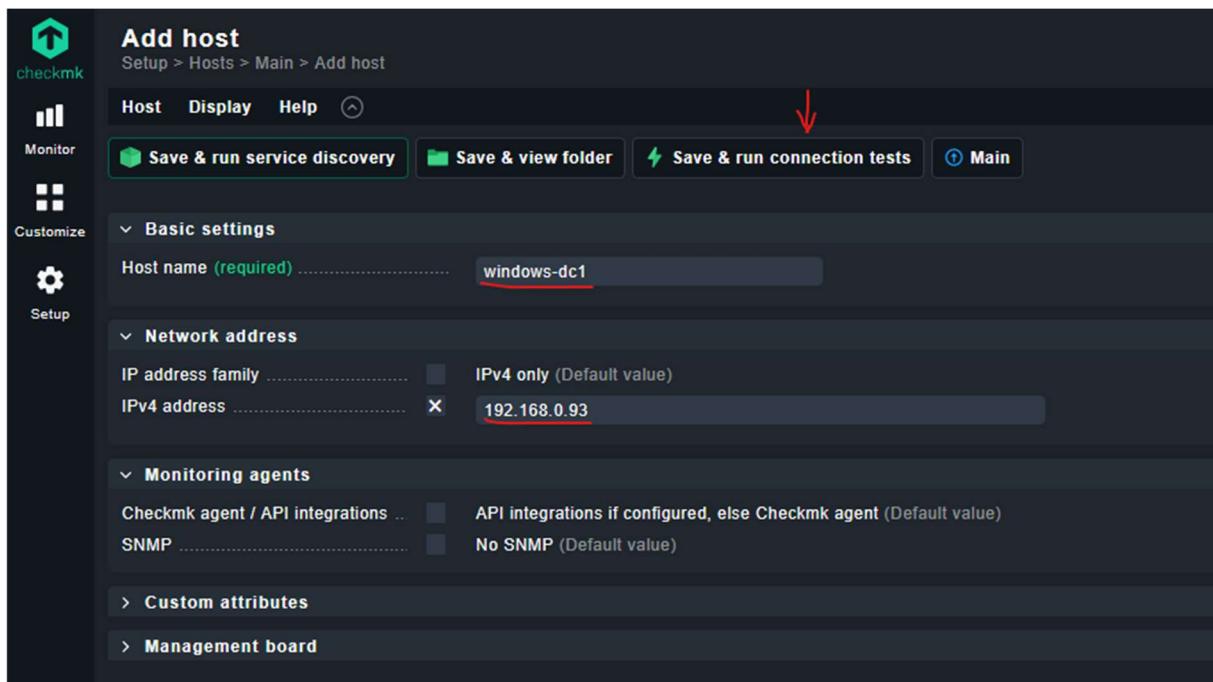
Télécharger et installer l'agent sur le serveur Windows, durant l'installation, cocher l'option clean installation.

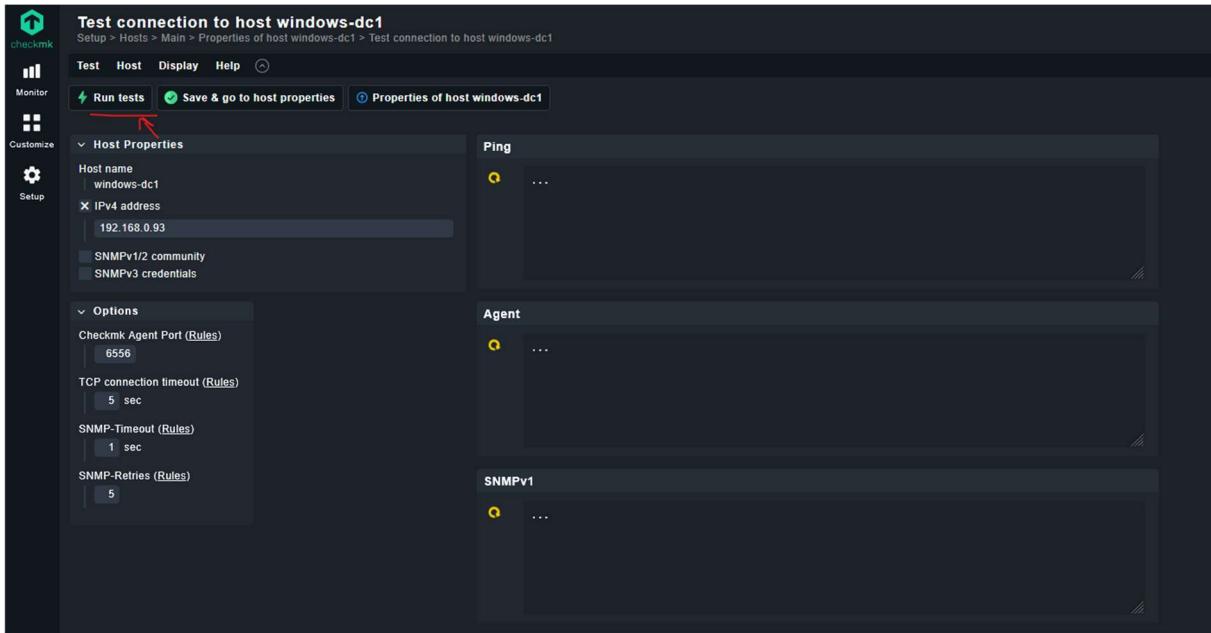
Ajouter l'hôte Windows sur checkmk

Depuis l'interface web checkmk aller dans le menu setup > hosts



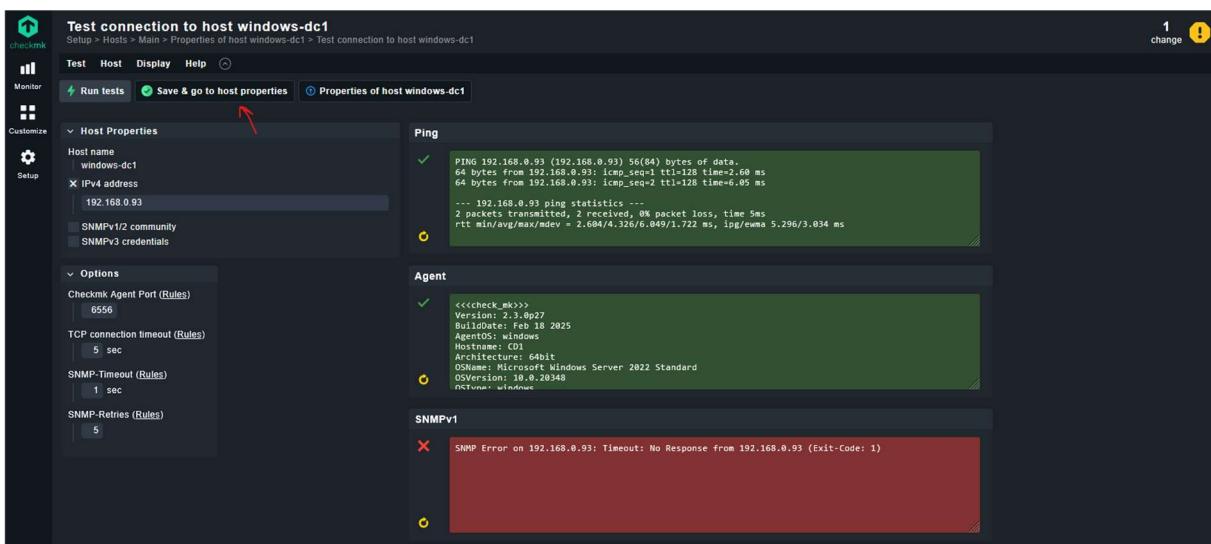
Saisir le nom et l'IP de l'hôte surveillé puis lancer les tests





Résultat : Ignorer l'échec de la partie SNMP étant donné qu'on utilise un agent et non pas le protocole SNMP.

Cliquer sur « Save & go to host properties »



Cliquer sur « Save & run service discovery »

Properties of host windows-dc1
Setup > Hosts > Main > Properties of host windows-dc1

Host Display Help ⚡

Save & run service discovery **Save & view folder** **Save & run connection tests** **Update site DNS cache** **Main**

Updated attributes: IP address

Basic settings
Host name windows-dc1

Network address
IP address family IPv4 only (Default value)
IPv4 address 192.168.0.93

Monitoring agents
Checkmk agent / API integrations API integrations if configured, else Checkmk agent (Default value)
SNMP No SNMP (Default value)

> Custom attributes
> Management board
> Creation / Locking

Cliquer sur le plus vert à côté des métriques que vous souhaitez surveiller ou bien cliquer sur « monitor undecided services » pour surveiller toutes les métriques proposées.

Services of host windows-dc1
Setup > Hosts > Main > Properties of host windows-dc1 > Services of host windows-dc1

Actions Host Settings Display Help ⚡

Accept all **Rescan** **Monitor undecided services** **Remove vanished services** **Properties of host windows-dc1**

All datasources are OK
OK [agent] Success
OK [piggyback] Success (but no data found for this host)

Changed services: 0 | Undecided services: 21 | Vanished services: 0 | New host labels: 5 | Vanished host labels: 0 | Changed host labels: 0

No fresh discovery information available. Using latest cached information. Please perform a rescan in case you want to discover the current state.

Discovered host labels (5)
Status Host labels
New cmkios_family_windows cmkios_name Microsoft Windows Server 2022 Standard cmkios_platform_windows cmkios_type_windows cmkios_version 10.0.20348

Undecided services - currently not monitored (21)

State	Service	Summary
WARN	Check_MK Agent	Version: 2.3.0p27, OS: windows, TLS is not activated on monitored host (see details) WARN . Agent plug-ins: 0, Local checks: 0
OK	CPU utilization	Initialized 'privileged'
OK	Disk IO SUMMARY	Initializing counters!
OK	Filesystem C:/	Initialized 'C:/delta'
OK	Interface 1	[Intel(R) PRO 1000 MT Desktop Adapter], (up), MAC: 08:00:27:9E:75:E8:00:00, Speed: 1 Gbit/s
OK	Log Active Directory Web Services	No error messages
OK	Log Application	No error messages
OK	Log DFS Replication	No error messages
OK	Log Directory Service	No error messages
OK	Log DNS Server	No error messages
OK	Log HardwareEvents	No error messages
OK	Log Internet Explorer	No error messages
OK	Log Key Management Service	No error messages
OK	Log Security	No error messages
OK	Log System	No error messages
OK	Log Windows PowerShell	No error messages
OK	Memory	RAM: 45.09% - 1.80 GiB of 4.00 GiB, Virtual memory: 36.45% - 1.96 GiB of 5.37 GiB
OK	Processor Queue	15 min load: 35.00, 15 min load per core: 17.50 (2 logical cores)

Appliquer les changements de la configuration

Services of host windows-dc1

Setup > Hosts > Main > Properties of host windows-dc1 > Services of host windows-dc1

Actions Host Settings Display Help

Accept all Rescan Monitor undecided services Remove vanished services Properties of host windows-dc1

Changed services: 0 | Undecided services: 0 | Vanished services: 0 | New host labels: 5 | Vanished host labels: 0 | Changed host labels: 0

No fresh discovery information available. Using latest cached information. Please perform a rescan in case you want to discover the current state.

Discovered host labels (5)

Monitored services (21)

Status	Service	Summary
WARN	Check_MK Agent	Version: 2.3.0p27, OS: windows, TLS is not activated on monitored host (see details) Agent plug-ins: 0. Local checks: 0
OK	CPU utilization	Initialized: 'privileged'
OK	Disk IO SUMMARY	Initializing counters!
WARN	Filesystem C:/	Initialized: 'C:/delta'
OK	Interface 1	[Intel(R) PRO 1000 MT Desktop Adapter], (up), MAC: 08:00:27:9E:75:E8, Speed: 1 GBit/s
OK	Log Active Directory Web Services	No error messages
OK	Log Application	No error messages

Activate pending changes

Setup > Activate pending changes

Changes Related Display Help

Activate on selected sites

Activation status

Actions	Site	Status	Version	Changes	Progress	Details
✓	Local site sfpars	online	2.3.0p27	9		Has never been activated

Pending changes

Time	User	Change	Affected sites
2025-03-03 23:38:06	cmkadmin	Saved check configuration of host 'windows-dc1' with 21 services	All sites
2025-03-03 23:37:54	cmkadmin	Saved check configuration of host 'windows-dc1' with 1 services	All sites
2025-03-03 23:30:22	cmkadmin	Saved check configuration of host 'windows-dc1' with 0 services	All sites
2025-03-03 23:30:15	cmkadmin	Deleted rule #0 in ruleset "Disabled services" in folder "Main"	All sites
2025-03-03 23:29:48	cmkadmin	Saved check configuration of host 'windows-dc1' with 1 services	All sites
2025-03-03 23:29:00	cmkadmin	Saved check configuration of host 'windows-dc1' with 1 services	All sites
2025-03-03 23:27:31	cmkadmin	Modified host windows-dc1.	All sites
2025-03-03 23:25:42	cmkadmin	Modified host windows-dc1.	All sites
2025-03-03 23:19:28	cmkadmin	Created new host windows-dc1.	All sites

Activate pending changes

Setup > Activate pending changes

Changes Related Display Help

Activate on selected sites

Activation status

Actions	Site	Status	Version	Changes	Progress	Details
✓	Local site sfpars	online	2.3.0p27	0	Success	Started at: 23:41:27. Finished at: 23:41:39.

All hosts

Monitor > Overview > All hosts

Commands Hosts Export Display Help

Acknowledge problems Schedule downtimes Filter Show checkboxes

Local site sfpars

State	Host	Icons	OK	Wa	Un	Cr	P'd
UP	windows-dc1	■	0	0	0	0	23

Overview

Hosts	Unhandled p.	State
1	0	0
Services	Unhandled p.	State
23	0	23
Events	Unhandled p.	State
0	0	0

Services of host windows-dc1

Monitor > Overview > All hosts > windows-dc1 > Services of host

Commands Host Services Export Display Help

Acknowledge problems Schedule downtimes Filter Show checkboxes windows-dc1

23 rows

Host	Unhandled p.	State
1	0	0
Services	Unhandled p.	State
23	2	1
Events	Unhandled p.	State
0	0	0

Overview Bookmarks Master control

Add bookmark Edit

Customize

Checkmk Monitor Help User Sidebar

windows-dc1

State Service Icons Summary

Age	Checked	Parf-O-Meter
67 s	67 s	9.62 s
57.9 s	1.87 s	
1.88 s	1.88 s	38.1%
1.88 s	1.88 s	6.63 Kbit/s / 25.64 Kbit/s
1.89 s	1.89 s	26.4%
57.9 s	1.89 s	166 bit/s / 2.78 kbit/s
57.9 s	1.90 s	
57.9 s	1.91 s	
57.9 s	1.92 s	
57.9 s	1.93 s	1.01 %
57.9 s	1.93 s	0
57.9 s	1.94 s	
1.94 s	1.94 s	-29.0 s
57.9 s	57.9 s	55 min 18 s

Icons Summary

Check_MK Agent Version: 2.3.0p27, OS: windows, TLS is not activated on monitored host (see details) [WARN] Agent plug-ins: 0, Local checks: 0

CPU utilization Total CPU: 38.10%

Disk IO SUMMARY Read: 6.78 kB/s, Write: 26.3 kB/s, Latency: 4 milliseconds

Floesystem C:/ Used: 26.40% - 13.0 GiB of 49.3 GiB, trend per 1 day 0 hours: +230 MiB, trend per 1 day 0 hours: +0.45%, Time left until disk full: 161 days 18 hours

Interface 1 [Intel(R) PRO 1000 MT Desktop Adapter], (up), MAC: 08:00:27:9E:75:E8:00, Speed: 1 Gbit/s, In: 20.7 B/s (<0.01%), Out: 347 B/s (<0.01%)

Log Active Directory Web Services No error messages

Log Application 1 CRIT messages (last worst: "Mar 03 23:20:41 0.1023 Microsoft-Windows-Perflib Windows ne peut pas charger la DLL de compléteur extensible « C:\Windows\system32\").

Log DFS Replication No error messages

Log Directory Service No error messages

Log DNS Server No error messages

Log HardwareEvents No error messages

Log Internet Explorer No error messages

Log Key Management Service No error messages

Log Security No error messages

Log System No error messages

Log Windows PowerShell No error messages

Memory RAM: 41.51% - 1.66 GiB of 4.00 GiB, Virtual memory: 35.68% - 1.93 GiB of 5.37 GiB

Processor Queue 15 min load: 1.55, 15 min load per core: 0.78 (2 logical cores)

Service Summary Autostart services: 64, Stopped services: 3

System Time Offset: -26 seconds

Uptime Up since 2025-03-03 22:49:00, Uptime: 55 minutes 18 seconds

TP : Supervision informatique avec Checkmk

Supervision de systèmes Linux avec un agent checkmk

Contexte :

Maintenant que checkmk est déployé, il faut superviser les serveurs physiques et virtuels de station f. La supervision se fait via un agent checkmk.

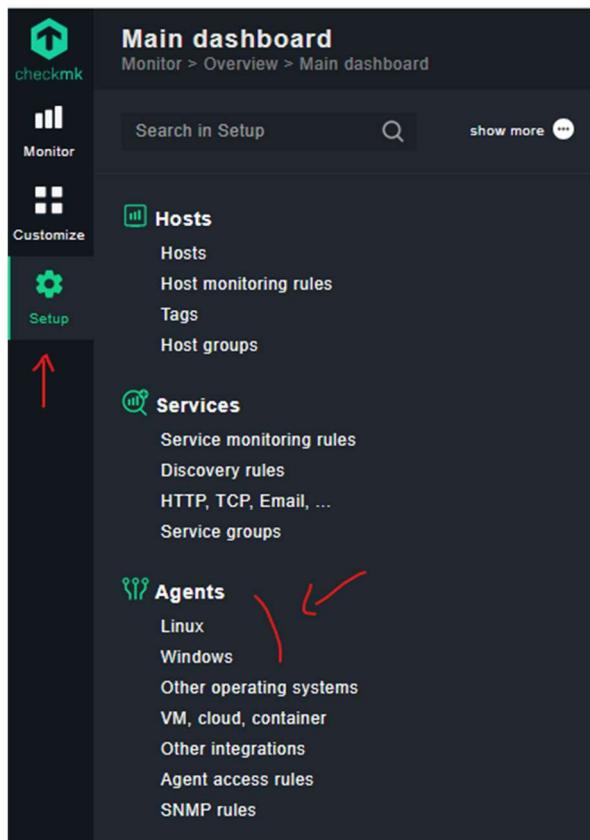
Procédure :

L'agent Checkmk :

Pour la surveillance d'un serveur ou d'un poste de travail, vous avez besoin d'un petit programme qui doit être installé sur l'ordinateur hôte : l'agent Checkmk.

Téléchargement de l'agent à partir de la page de téléchargement :

Des agents pour onze familles différentes de systèmes d'exploitation sont actuellement gérés dans le cadre du projet Checkmk. Tous ces agents sont des composants de Checkmk et peuvent être téléchargés via l'interface web du serveur Checkmk. L'accès à ces agents se fait par l'intermédiaire de Setup > Agents.



The screenshot shows the 'Linux, Solaris, AIX files' page in the Checkmk web interface. The 'Packaged Agents' section is expanded, displaying several files:

File	Size	File	Size
check-mk-agent_2.3.0p27-1_all.deb	4.35 MiB	check-mk-agent-2.3.0p27-1.noarch.rpm	4.46 MiB
cmk-agent-ctl	10.78 MiB	cmk-agent-ctl.gz	4.33 MiB
mk-sql	8.81 MiB		
cmk-agent-useradd.sh	2.10 KiB		
setup	3.44 KiB		

Télécharger l'agent doté de l'extension « .deb » pour une machine debian.

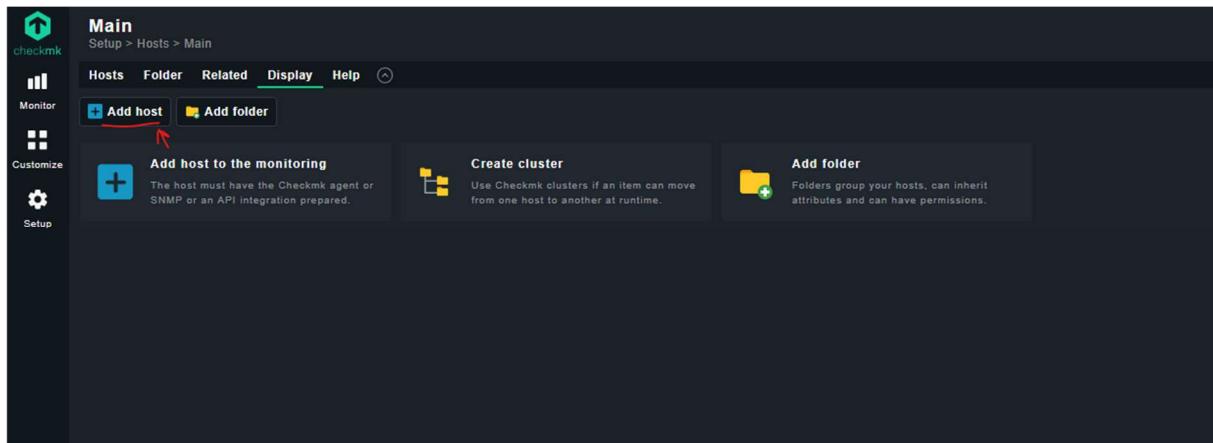
Copier l'agent vers le serveur Debian

Installer l'agent :

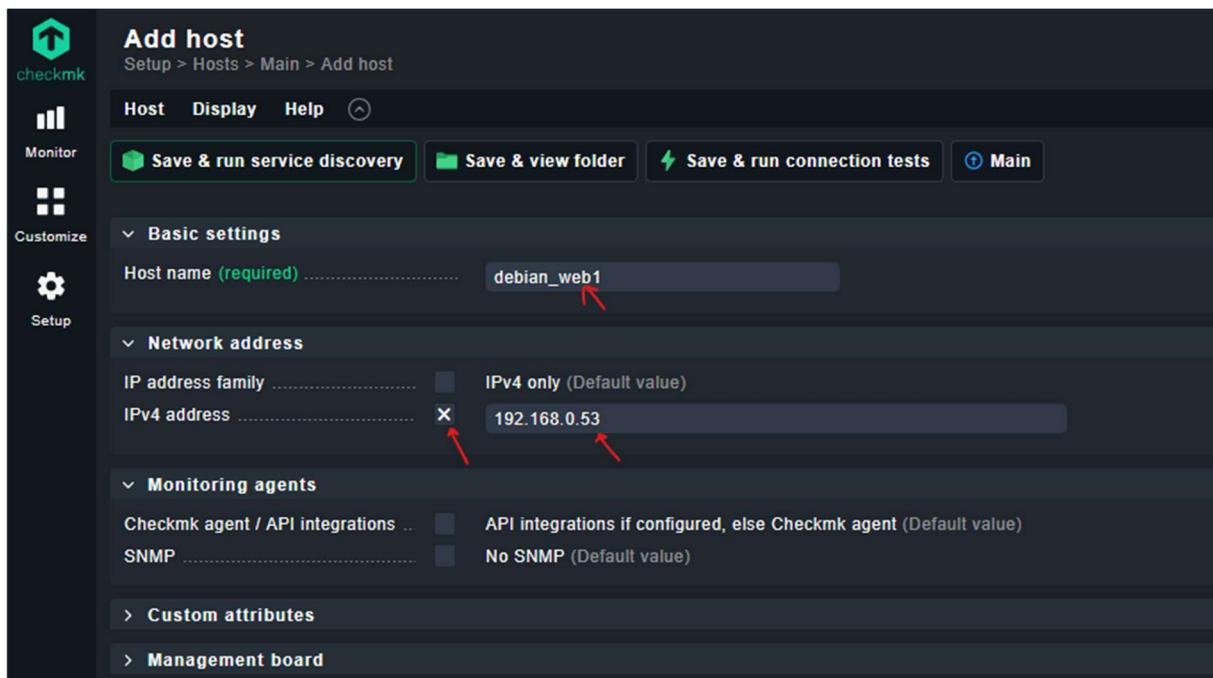
```
sudo dpkg -i check-mk-agent_2.3.0p27-1_all.deb
```

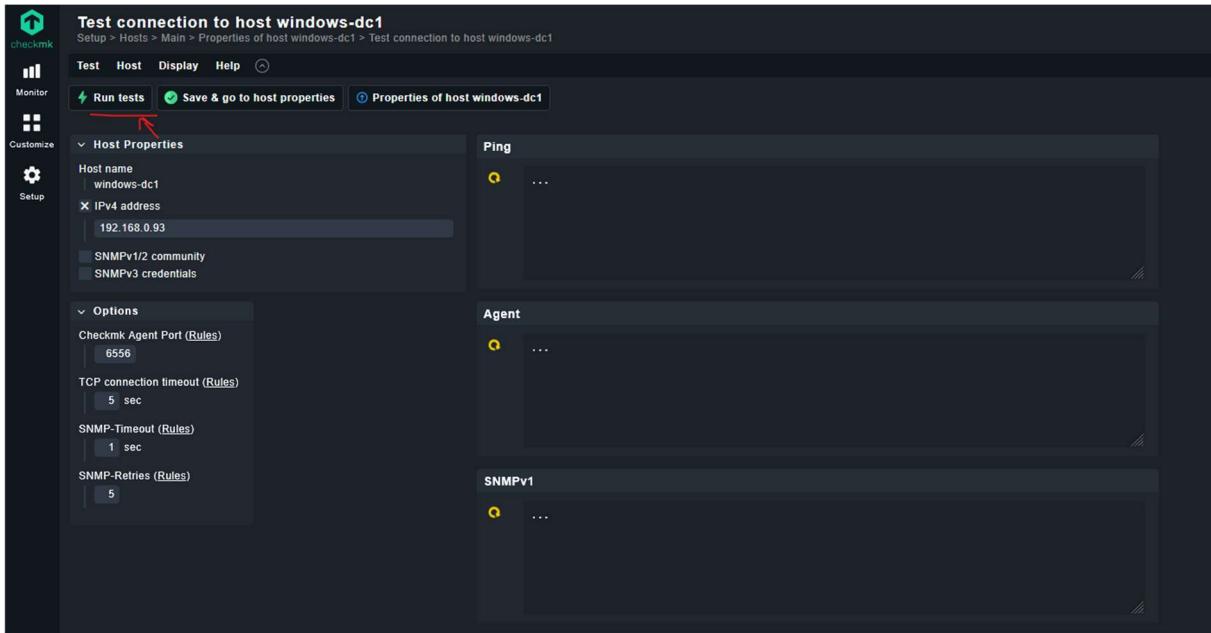
Ajouter l'hôte Linux sur checkmk

Depuis l'interface web checkmk aller dans le menu setup > hosts



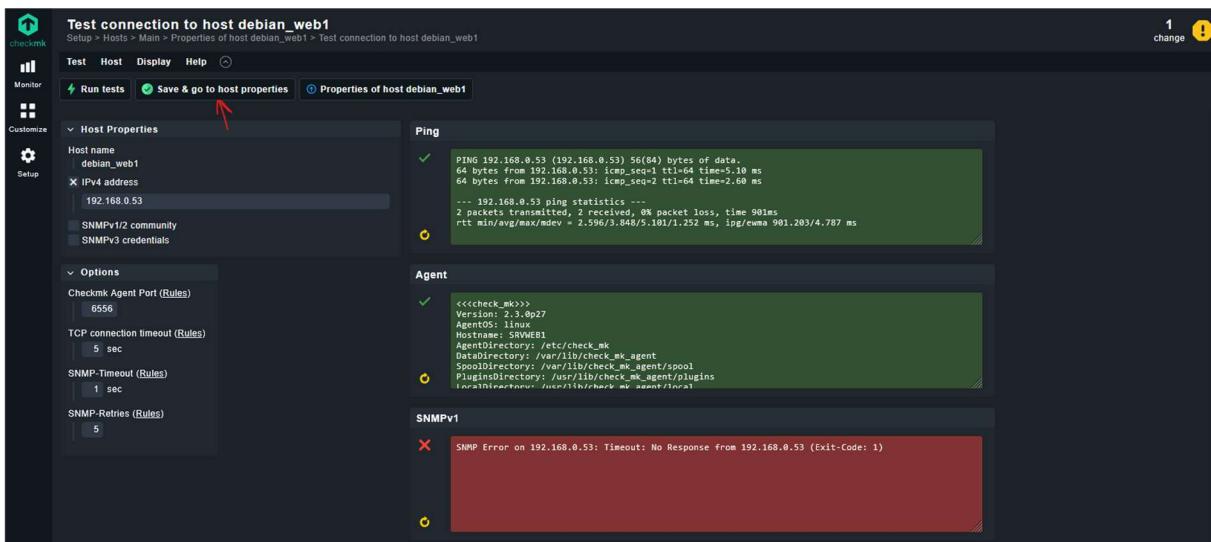
Saisir le nom et l'IP de l'hôte surveillé puis cliquer sur « Save & run connection tests »





Résultat : Ignorer l'échec de la partie SNMP étant donné qu'on utilise un agent et non pas le protocole SNMP.

Cliquer sur « Save & go to host properties »



Cliquer sur « Save & run service discovery »

Properties of host debian_web1
Setup > Hosts > Main > Properties of host debian_web1

Host Display Help ⌂

Save & run service discovery **Save & view folder** **Save & run connection tests** **Update site DNS cache** **Main**

Updated attributes: IP address

Basic settings
Host name debian_web1

Network address
IP address family IPv4 only (Default value)
IPv4 address 192.168.0.53

Cliquer sur le plus vert à côté des métriques que vous souhaitez surveiller ou bien cliquer sur « monitor undecided services » pour surveiller toutes les métriques proposées.

Services of host debian_web1
Setup > Hosts > Main > Properties of host debian_web1 > Services of host debian_web1

Actions Host Settings Display Help ⌂

Accept all **Rescan** **Monitor undecided services** **Remove vanished services** **Properties of host debian_web1**

All datasources are OK
OK [agent]: Success
OK [piggyback]: Success (but no data found for this host)

Changed services: 0 | Undecided services: 18 | Vanished services: 0 | New host labels: 6 | Vanished host labels: 0 | Changed host labels: 0

No fresh discovery information available. Using latest cached information. Please perform a rescan in case you want to discover the current state.

Discovered host labels (6)
Status Host labels
New cmk/device_type_vml cmk/os_family_unix cmk/os_name Debian GNU/Linux cmk/os_platform_debian cmk/os_type_unix cmk/os_version_12

Undecided services - currently not monitored (18)

State	Service	Summary
WARN	Check_MK Agent	Version: 2.3.0p27, OS: linux, TLS is not activated on monitored host (see details) WARN Agent plug-ins: 0, Local checks: 0
OK	CPU load	15 min load: 0.03, 15 min load per core: 0.01 (2 cores)
OK	CPU utilization	Total CPU: 2.60%
OK	Disk IO SUMMARY	Initializing counters
OK	Filesystem /	Initialized: '/delta'
OK	Filesystem /boot	Initialized: '/boot delta'
OK	Interface 2	[enp0s3], (up), MAC: 08:00:27:0D:01:08, Speed: 1 GBit/s
OK	Interface 3	[enp0s8], (up), MAC: 08:00:27:E9:19:19, Speed: 1 GBit/s
OK	Kernel Performance	Initialized: 'processes'
OK	Memory	Total virtual memory: 4.93% - 145 MiB of 2.88 GiB, 9 additional details available
OK	Mount options of /	Mount options exactly as expected
OK	Mount options of /boot	Mount options exactly as expected
OK	Number of threads	116, Usage: 0.76%
OK	Systemd Service Summary	Total: 109, Disabled: 3, Failed: 0
OK	Systemd Socket Summary	Total: 13, Disabled: 1, Failed: 0
OK	Systemd Timesyncd Time	Offset: 416 microseconds, Time since last sync: 6 minutes 53 seconds, Time since last NTPMessage: 6 minutes 53 seconds, Stratum: 3.00, Jitter: 1 millisecond, Synchronized on 82:67:41.119
OK	TCP Connections	Established: 3
OK	Uptime	Up since 2025-03-03 23:59:01, Uptime: 11 minutes 21 seconds

Appliquer les changements de la configuration

Services of host debian_web1
Setup > Hosts > Main > Properties of host debian_web1 > Services of host debian_web1

Actions Host Settings Display Help ⌂

Accept all **Rescan** **Monitor undecided services** **Remove vanished services** **Properties of host debian_web1**

All datasources are OK
OK [agent]: Success
OK [piggyback]: Success (but no data found for this host)

Changed services: 0 | Undecided services: 0 | Vanished services: 0 | New host labels: 6 | Vanished host labels: 0 | Changed host labels: 0

No fresh discovery information available. Using latest cached information. Please perform a rescan in case you want to discover the current state.

Discovered host labels (6)
Status Host labels
New cmk/device_type_vml cmk/os_family_unix cmk/os_name Debian GNU/Linux cmk/os_platform_debian cmk/os_type_unix cmk/os_version_12

Monitored services (18)

State	Service	Summary
WARN	Check_MK Agent	Version: 2.3.0p27, OS: linux, TLS is not activated on monitored host (see details) WARN Agent plug-ins: 0, Local checks: 0
OK	CPU load	15 min load: 0.03, 15 min load per core: 0.01 (2 cores)
OK	CPU utilization	Total CPU: 2.60%
OK	Disk IO SUMMARY	Initializing counters

Activate pending changes

Setup > Activate pending changes

Changes Related Display Help

Activate on selected sites

Activation status

Actions Site Status Version Changes Progress Details

Local site sfraps online 2.3.0p27 4 Activation needed

Pending changes

Time	User	Change	Affected sites
2025-03-04 00:12:11	cmkadmin	Saved check configuration of host 'debian_web1' with 18 services	All sites
2025-03-04 00:10:16	cmkadmin	Modified host debian_web1.	All sites
2025-03-04 00:09:36	cmkadmin	Modified host debian_web1.	All sites
2025-03-04 00:05:05	cmkadmin	Created new host debian_web1.	All sites

Overview

Hosts	Unhandled p.	State
1	1	1
Services	Unhandled p.	State
23	0	20
Events	Unhandled p.	State
0	0	0

Bookmarks Add bookmark Edit

Master control

Activate pending changes

Setup > Activate pending changes

Changes Related Display Help

Activate on selected sites

Activation status

Actions Site Status Version Changes Progress Details

Local site sfraps online 2.3.0p27 0 Success Started at: 00:14:08 Finished at: 00:14:21.

Overview

Hosts	Unhandled p.	State
2	1	0
Services	Unhandled p.	State
43	0	20
Events	Unhandled p.	State
0	0	0

Bookmarks Add bookmark Edit

Master control

All hosts

Monitor > Overview > All hosts

Commands Hosts Export Display Help

Acknowledge problems Schedule downtimes Filter Show checkboxes

Local site sfraps

State	Host	Icons	OK	Wa	Un	Cr	Pd
UP	debian_web1	Filesystem /	0	0	0	0	20

Overview

Hosts	Unhandled p.	State
2	1	0
Services	Unhandled p.	State
43	0	20
Events	Unhandled p.	State
0	0	0

Bookmarks Add bookmark Edit

Master control

Services of host debian_web1

Monitor > Overview > All hosts > debian_web1 > Services of host

Commands Host Services Export Display Help

Acknowledge problems Schedule downtimes Filter Show checkboxes debian_web1

debian_web1

State	Service	Icons	Summary	Age	Checked	Perf-O-Meter
OK	Check_MK	Filesystem /	[agent] Success, [piggyback] Success (but no data found for this host), execution time 3.5 sec	17.1 s	17.1 s	3.48 s
WARN	Check_MK Agent	Filesystem /	Version: 2.3.0p27, OS: linux, TLS is not activated on monitored host (see details) [WARN] Agent plug-ins: 0, Local checks: 0	10.1 s	10.1 s	
PEND	Check_MK Discovery	Filesystem /		-	-	
OK	CPU load	Filesystem /	15 min load: 0.03, 15 min load per core: 0.01 (2 cores)	10.1 s	10.1 s	0.11
OK	CPU utilization	Filesystem /	Total CPU: 1.82%	10.1 s	10.1 s	1.82%
PEND	Disk I/O SUMMARY	Filesystem /		-	-	
PEND	Filesystem /boot	Filesystem /		-	-	
OK	Interface 2	Filesystem /	[enp0s3], (up), MAC: 08:09:27:00:01:0B, Speed: 1 Gbit/s	10.1 s	10.1 s	
OK	Interface 3	Filesystem /	[enp0s8], (up), MAC: 08:09:27:E9:19:19, Speed: 1 Gbit/s	10.1 s	10.1 s	
PEND	Kernel Performance	Filesystem /		-	-	
OK	Memory	Filesystem /	Total virtual memory: 5.31% - 157 MiB of 2.88 GiB, 9 additional details available	10.1 s	10.1 s	7.96 %
OK	Mount options of /	Filesystem /	Mount options exactly as expected	10.2 s	10.2 s	
OK	Mount options of /boot	Filesystem /	Mount options exactly as expected	10.2 s	10.2 s	
OK	Number of threads	Filesystem /	115, Usage: 0.75%	10.2 s	10.2 s	115
OK	Systemd Service Summary	Filesystem /	Total: 109, Disabled: 3, Failed: 0	10.2 s	10.2 s	
OK	Systemd Socket Summary	Filesystem /	Total: 13, Disabled: 1, Failed: 0	10.2 s	10.2 s	
OK	Systemd Timesyncd Time	Filesystem /	Offset: 102 microseconds, Time since last sync: 4 minutes 54 seconds, Time since last NTPMessage: 4 minutes 54 seconds, Stratum: 3, Jitter: 1 millisecond, Synchronized on 02:07:41.119	10.2 s	10.2 s	102 µs
OK	TCP Connections	Filesystem /	Established: 3	10.2 s	10.2 s	3
OK	Uptime	Filesystem /	Up since 2025-03-03 23:54:13, Uptime: 22 minutes 42 seconds	10.2 s	10.2 s	22 min 42 s

Overview

Hosts	Unhandled p.	State
2	1	0
Services	Unhandled p.	State
43	1	5
Events	Unhandled p.	State
0	0	0

Bookmarks Add bookmark Edit

Master control

TP : Supervision informatique avec Checkmk

Surveiller les équipements réseau avec le protocole snmpv3

1. Configuration d'un switch Cisco :

Créer un utilisateur SNMPv3 :

Sur la console de configuration (conf t) Il faut créer un utilisateur SNMPv3 avec des niveaux de sécurité adéquats. SNMPv3 offre trois niveaux de sécurité :

- **noAuthNoPriv** : Pas d'authentification ni de chiffrement.
- **authNoPriv** : Authentification avec MD5 ou SHA, mais sans chiffrement.
- **authPriv** : Authentification et chiffrement (le plus sécurisé).

```
snmp-server group MON_GROUPE v3 priv  
snmp-server user UTILISATEUR GROUPE v3 auth sha MOTDEPASSE authpriv  
aes 128 MOTDEPASSE_CHIFFREMENT
```

Explication :

- GROUPE : Nom du groupe SNMPv3.
- UTILISATEUR : Nom de l'utilisateur SNMPv3.
- sha : Utilisation de SHA pour l'authentification.
- MOTDEPASSE : Mot de passe pour l'authentification (au moins 8 caractères).
- aes 128 : Chiffrement AES 128 bits.
- MOTDEPASSE_CHIFFREMENT : Mot de passe pour le chiffrement.

Définir l'accès SNMP :

```
snmp-server host 192.168.10.101 version 3 priv MON_UTILISATEUR
```

Explication :

- 192.168.20.100 : IP du serveur Checkmk.
- version 3 priv : SNMPv3 avec chiffrement.
- MON_UTILISATEUR : Nom de l'utilisateur SNMPv3 précédemment créé.

Sauvegarder et tester la configuration :

```
write memory  
show snmp user  
show snmp group  
show snmp host
```

2. Configuration d'un pare-feu Stormshield :

Accéder à l'interface d'administration web du pare-feu Stormshield.

Naviguer vers le menu de configuration SNMPv3 :

Aller dans Configuration > Notifications > Agent SNMP > SNMPv3.

Activer l'agent SNMPv3 :

Cocher l'option pour activer l'agent SNMPv3.

Configurer les paramètres d'authentification et de chiffrement :

Dans la section Connexion à l'agent SNMP, définir les algorithmes et mots de passe utilisés pour l'authentification et le chiffrement des échanges.

Ajouter les hôtes SNMP autorisés :

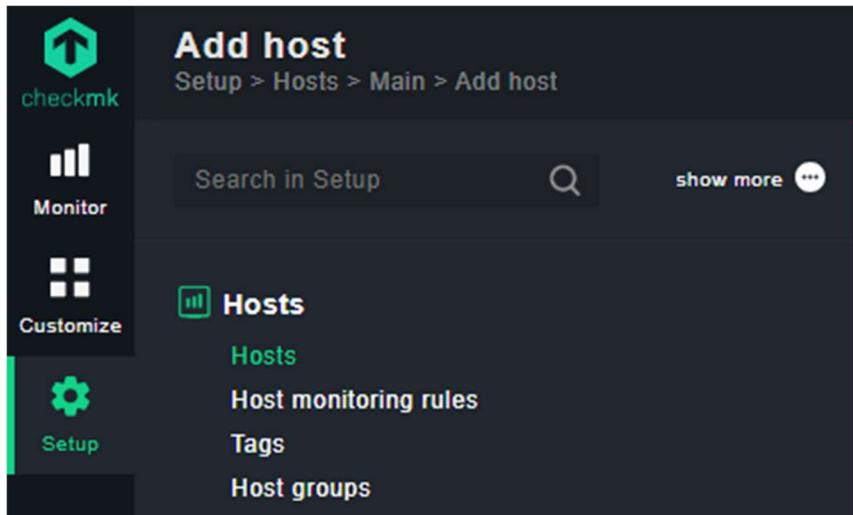
Dans la section Liste des serveurs SNMP, spécifier les stations autorisées à contacter le pare-feu pour recevoir des traps SNMP. Si aucune station n'est spécifiée, le pare-feu n'enverra aucun message.

Enregistrer et appliquer la configuration

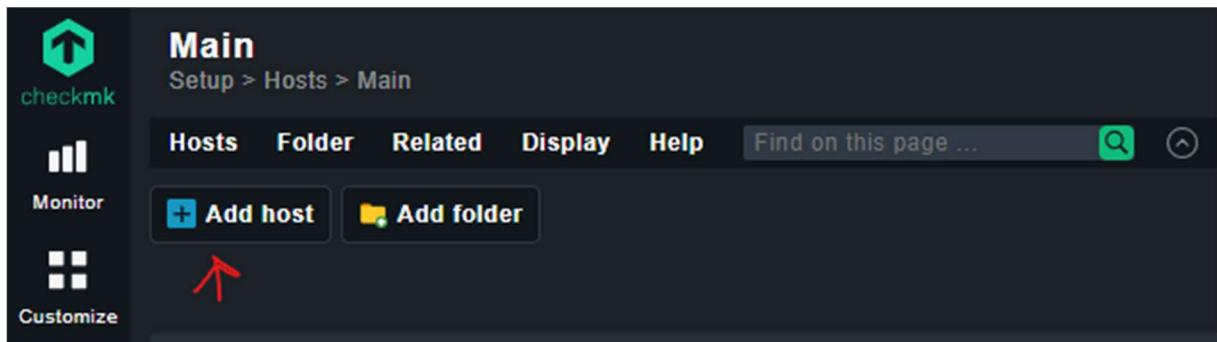
En cas de problème vérifier les règles de filtrage du pare-feu.

2. Configuration du serveur checkmk :

Aller dans Setup > Hosts



Ajouter un hôte :



Compléter le formulaire :

The screenshot shows the 'Add host' configuration form. The left sidebar has 'Setup' selected. The top bar includes 'Host', 'Display', 'Help', and buttons for 'Save & run service discovery', 'Save & view folder', 'Save & run connection tests', and 'Main'. The form fields include:

- Basic settings:** Host name (required) is set to 'SW-CORE1'.
- Network address:** IP address family is 'IPv4 only' (Default value). IPv4 address is '192.168.10.254'.
- Monitoring agents:** Checkmk agent / API integrations is 'API integrations if configured, else Checkmk agent (Default value)'. SNMP is 'SNMP v2 or v3'. SNMP credentials are set to 'Credentials for SNMPv3 with authentication and privacy (authPriv)'.
 - Security Level: 'authentication and encryption'
 - Authentication protocol: 'MD5 (MD5-96)'
 - Security name: 'seename'
 - Authentication password: '.....'
 - Privacy protocol: 'AES-128'
 - Privacy pass phrase: '.....'

Red arrows and a brace highlight specific fields: the 'Save & run connection tests' button, the 'Host name' field, the 'IPv4 address' field, and the SNMP monitoring agent configuration.

Sauvegarder et lancer les tests de connexion :

Si la configuration est correcte l'ensemble des tests sera au vert.

The screenshot shows the 'Test connection to host switch1' page. The top navigation bar includes 'Test', 'Hosts', 'Display', 'Help', 'Save & go to host properties' (highlighted with a red arrow), 'Run tests' (highlighted with a red arrow), and 'Properties of host switch1'. A status summary at the top right indicates '1 change' with a warning icon. Below this, four sections show test results:

- sysLocation:** Core Switch Serverraum klein
- SNMPv2c:** All three entries are green (successful).
 - sysDescr: JetStream 24-Port Gigabit L2 Managed Switch with 4 Combo SFP Slots
 - sysContact:
 - sysName: sw-ks-01
 - sysLocation: Core Switch Serverraum klein
- SNMPv2c (without Bulkwalk):** All three entries are green (successful).
 - sysDescr: JetStream 24-Port Gigabit L2 Managed Switch with 4 Combo SFP Slots
 - sysContact:
 - sysName: sw-ks-01
 - sysLocation: Core Switch Serverraum klein
- SNMPv3:** All three entries are green (successful).
 - sysDescr: JetStream 24-Port Gigabit L2 Managed Switch with 4 Combo SFP Slots
 - sysContact:
 - sysName: sw-ks-01
 - sysLocation: Core Switch Serverraum klein

Sauvegarder et aller à la configuration des services à superviser :

The screenshot shows the 'Add host' configuration page. The top navigation bar includes 'Host', 'Display', 'Help', 'Save & run service discovery' (highlighted with a red arrow), 'Save & view folder', 'Save & run connection tests', and 'Main'. The configuration form includes fields for basic settings, network address, and monitoring agents. The 'Monitoring agents' section is expanded, showing the configuration for the 'SNMP' agent:

- Checkmk agent / API integrations:** API integrations if configured, else Checkmk agent (Default value)
- SNMP:** SNMP v2 or v3
- SNMP credentials:** Credentials for SNMPv3 with authentication and privacy (authPriv)
 - Security Level: authentication and encryption
 - Authentication protocol: MD5 (MD5-96)
 - Security name: secname
 - Authentication password: [redacted]
 - Privacy protocol: AES-128
 - Privacy pass phrase: [redacted]

Choisir les éléments à surveiller :

Services of host switch1

No fresh discovery information available. Using latest cached information. Please perform a full scan in case you want to discover the current state.

Undecided services: 17 | Vanished services: 0 | New host labels: 0 | Vanished host labels: 0 | Changed host labels: 0 | Fix all

Discovered host labels

Status	Host labels
Active	cmk/device_type:switch

Undecided services (currently not monitored)

State	Service	Status detail
OK	Interface 00002	[fw-ks-igb0], (up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s
OK	Interface 00003	[fw-ks-igb3], (up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s
OK	Interface 00005	[1.11 blau], (up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s
OK	Interface 00006	[2.05 blau], (up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s
OK	Interface 00007	
OK	Interface 00008	
OK	Interface 00009	
OK	Interface 00010	

Services of host switch1

No fresh discovery information available. Using latest cached information. Please perform a full scan in case you want to discover the current state.

Monitored services

State	Service	Status detail
OK	Interface 00002	[fw-ks-igb0], (up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s
OK	Interface 00003	[fw-ks-igb3], (up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s
OK	Interface 00005	[1.11 blau], (up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s
OK	Interface 00006	[2.05 blau], (up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s
OK	Interface 00014	[Frankiermaschine], (up), MAC: F4:EC:38:AA:5D:5F, Speed: 100 MBit/s
OK	Interface 00015	[Uplink sw-ks-06], (up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s

Valider les modifications :

Activate pending changes

Changes Related Display Help

Activate on selected sites

Currently there are 5 changes to activate.

Activation status

Actions	Site	Status	Version	Changes	Progress	Details
*	Local site checkmk_server	online	2.0.0p9	5		Activation needed

Pending changes

Time	User	Change	Affected sites
2021-09-16 15:11:11	cmkadmin	Saved check configuration of host 'switch1' with 17 services	All sites
2021-09-16 15:11:11	cmkadmin	Updated discovered host labels of 'switch1' with 1 labels	All sites
2021-09-16 15:10:59	cmkadmin	Modified host switch1.	All sites
2021-09-16 15:10:52	cmkadmin	Modified host switch1.	All sites
2021-09-16 15:10:03	cmkadmin	Created new host switch1.	All sites

Services of Host switch1
Monitor > Overview > All hosts > switch1 > Services of Host

30

Commands Host Services Add to Export Display Help ⚙

Acknowledge problems Schedule downtimes Filter Show checkboxes switch1

19 rows

switch1	State	Service	Icons	Summary	Age	Checked	Perf-O-Meter
Check_MK	OK		[snmp]	Success, execution time 5.0 sec	14 m	26.0 s	4.98 s
Check_MK	OK	Discovery		no unmonitored services found, no vanished services found, no new host labels	14 m	14 m	
Interface 00002	OK		[fw-ks-igb0]	(up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s, In: 480 kB/s (0.38%), Out: 360 kB/s (0.29%)	14 m	26.0 s	3.84 Mbit/s / 2.88 Mbit/s
Interface 00003	OK		[fw-ks-igb3]	(up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s, In: 0.00 B/s (0%), Out: 959 B/s (<0.01%)	14 m	26.0 s	0.00 bit/s / 7.67 kbit/s
Interface 00005	OK		[1..11 blau]	(up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s, In: 9.75 B/s (<0.01%), Out: 935 B/s (<0.01%)	14 m	26.0 s	78.0 bit/s / 7.48 kbit/s
Interface 00006	OK		[2..05 blau]	(up), MAC: F4:EC:38:AA:5D:5F, Speed: 1 GBit/s, In: 25.7 kB/s (0.02%), Out: 240 kB/s (0.19%)	14 m	26.0 s	206 kbit/s / 1.92 Mbit/s

Configuration des notifications e-mail CHECKMK (Supervision)

Ce TP vise à apprendre à configurer l'envoie de notifications par e-mail pour l'outil de supervision « CHECKMK ».

L'usage d'une messagerie Gmail comme indiqué dans ce laboratoire n'est pas recommandé dans un environnement sensible ou de production.

Un serveur de messagerie souverain est fortement recommandé.

Partie 1 : Préparer l'accès à la messagerie Gmail pour utilisation comme messagerie de notification

Depuis quelques années maintenant, Google a introduit une nouvelle fonctionnalité : "les mots de passe d'application". Ils permettent de créer un mot de passe unique valable une fois et seulement pour une machine, sans devoir entrer votre vrai mot de passe de votre compte Gmail.

1. Créer un compte de messagerie Gmail (ex : alertes.stationf@gmail.com) afin de l'utiliser comme relai SMTP.
2. Cliquer sur le cercle de profil en haut à droite de la page
3. Se rendre dans la partie gestion de votre compte google



4. Aller dans la section sécurité

The screenshot shows the main menu of a Google Account page. The menu items are: Accueil (Home), Informations personnelles (Personal info), Données et confidentialité (Data & privacy), Sécurité (Security), Contacts et partage (Contacts & sharing), and Paiements et abonnements (Payments & subscriptions). The 'Sécurité' item is highlighted with a yellow background.

5. Validation en deux étapes

The screenshot shows the 'Sécurité' (Security) page. The main heading is 'Sécurité' with the subtext 'Paramètres et recommandations pour vous aider à protéger votre compte'. Below this is a section titled 'Votre compte est protégé' with the subtext 'Le Check-up Sécurité a vérifié votre compte et n'a détecté aucune action recommandée'. To the right of this text are icons of a lock and a shield with a checkmark. Below this is a link 'Afficher les détails'. Further down is a section titled 'Activité récente liée à la sécurité de votre compte' listing recent activities: 'Nouvelle connexion sur Windows' (19:11 - France), 'Étape de connexion ajoutée : clé d'accès' (19:11 - France), and 'Mot de passe d'application créé' (31 janv. - France). Below this is a link 'Examiner l'activité liée à la sécurité'. At the bottom is a section titled 'Comment vous connecter à Google' with the subtext 'Assurez-vous que vous pouvez toujours accéder à votre compte Google en maintenant ces informations à jour'. It lists 'Validation en deux étapes' (highlighted with a yellow background) and 'Activation : 10 oct. 2023'. Below this is another section 'Clés d'accès et clés de sécurité' with the subtext '2 clés d'accès'.

6. Cen bas de la page, section « Mots de passe des applications », cliquer sur la petite flèche à droite de l'écran.

← Validation en deux étapes

options que vous avez définies ne sont pas disponibles.



Message vocal ou SMS

Recevez les codes par SMS ou via un appel téléphonique.



Clé de sécurité

Une clé de sécurité est une méthode de validation qui vous permet de vous connecter de manière sécurisée. Elle peut être intégrée à votre téléphone, utiliser le Bluetooth ou se brancher directement sur le port USB de votre ordinateur.



Appareils sur lesquels une deuxième étape n'est pas nécessaire

Vous pouvez ignorer la deuxième étape sur les appareils que vous jugez suffisamment fiables, comme votre ordinateur personnel.



Appareils fiables

Révoquez le statut d'appareil vérifié pour les appareils sur lesquels la validation en deux étapes est ignorée.

[TOUT ANNULER](#)

Mots de passe des applications

Les mots de passe d'application ne sont pas recommandés et sont inutiles dans la plupart des cas. Pour sécuriser votre compte Google, utilisez Se connecter avec Google pour y associer des applis.

Mots de passe des applications

3 mots de passe



7. Saisir le nom de l'application utilisée pour l'envoie de courriels et cliquer sur créer

← Mots de passe des applications

Les mots de passe d'application vous permettent de vous connecter à votre compte Google sur des applis et des services plus anciens, non compatibles avec les normes de sécurité les plus récentes.

Les mots de passe d'application sont moins sécurisés que les applis et services à jour qui utilisent les normes de sécurité les plus récentes. Avant de créer un mot de passe d'application, vous devez vérifier si votre appli en a besoin pour établir la connexion.

[En savoir plus](#)

Vos mots de passe d'application

stormshield	Date de création : 31 janv., dernière utilisation : 18:47	
GARDIEN	Date de création : 10 oct. 2023, dernière utilisation : 30 janv.	
PBOLT	Date de création : 10 oct. 2023, dernière utilisation : 10 oct. 2023	

Pour créer un mot de passe spécifique à une appli, indiquez son nom ci-dessous.

Nom de l'appli

exemple

Créer

- Utiliser le mot de passe généré pour s'authentifier à la messagerie depuis l'application d'alerte.



Enregistrer ce mot de passe pour plus tard, car il ne sera pas possible de le réafficher.

Informations de configuration SMTP Gmail :

Serveur SMTP : smtp.gmail.com

Port : 587 (SMTP TLS)



Partie 2 : Préparer un relai SMTP Postfix

Postfix est un [serveur de messagerie électronique](#) et un [logiciel libre](#) développé par [Wietse Venema](#) et plusieurs contributeurs. Il se charge de la livraison de [courriers électroniques \(courriels\)](#) et a été conçu comme une alternative plus rapide, plus facile à administrer et plus sécurisée que l'historique [Sendmail](#).

Il est le [serveur de courriel](#) par défaut dans plusieurs systèmes de type [UNIX](#), comme [Mac OS X](#), [NetBSD³](#), diverses distributions [GNU/Linux](#), etc.

1. Installation des paquets :

```
apt-get update  
apt-get install postfix mailutils libsasl2-2 ca-certificates libsasl2-modules
```

Les paquets : **postfix** c'est postfix, **mailutils** permet la gestion des courriels par la console, **libsasl2-2** est l'implémentation de l'interface de programmation de Cyrus SASL, ca-certificates contient des fichiers PEM de certificats CA, et pour finir **libsasl2-modules** contient des modules pour le paquet libsasl2-2.

```
systemctl enable postfix
```

2. Configuration :

Ouvrir le fichier de configuration de Postfix :

```
nano /etc/postfix/main.cf
```

Modifier la ligne

```
relayhost =
```

Saisir les paramètres SMTP de Gmail

```
relayhost = [smtp.gmail.com]:587
```

Ajoute les lignes suivantes à la fin du fichier afin d'activer l'authentification et le chiffrement TLS

```
smtp_sasl_auth_enable = yes  
smtp_sasl_password_maps = hash:/etc/postfix/sasl_passwd  
smtp_sasl_security_options = noanonymous  
smtp_tls_CAfile = /etc/postfix/cacert.pem  
smtp_use_tls = yes
```

Préciser l'adresse Gmail à utiliser pour l'envoie des messages

```
nano /etc/postfix/sasl_passwd
```

Saisir la ligne suivante en remplaçant l'adresse email et le mot de passe par les vôtres

```
[smtp.gmail.com]:587 USERNAME@gmail.com:MDP Application
```

Attribuer les droits d'accès au fichier, seul l'utilisateur root doit avoir accès au fichier « sasl_passwd »
chmod 400 /etc/postfix/sasl_passwd

Créer la base de données d'authentification incluant la configuration saisie dans le fichier « sasl_passwd »

```
postmap /etc/postfix/sasl_passwd
```

Créer si besoin un certificat .pem

```
cd /etc/ssl/certs  
  
openssl req -newkey rsa:2048 -new -nodes -x509 -days 3650 -keyout key-for-smtp-gmail.pem -out cert-for-smtp-gmail.pem  
  
cat /etc/ssl/certs/cert-for-smtp-gmail.pem | sudo tee -a /etc/postfix/cacert.pem
```

Redémarrer Postfix

```
Systemctl restart postfix
```

Vérifier l'état du service

```
Systemctl status postfix
```

Tester l'envoie des e-mails en remplaçant adresse@mail.com par votre adresse Gmail

```
echo "Test mail from postfix" | mail -s "Test Postfix" adresse@mail.com
```

Partie 3 : Configurer les notifications sur Checkmk

Dans setup, choisir le menu « contact groups »

The screenshot shows the Checkmk Main dashboard interface. On the left, there is a sidebar with various navigation options: Monitor, Customize, Setup (which is selected), Help, User, and Sidebar. The main content area is titled "Main dashboard" and shows a search bar with "Search in Setup". Below the search bar, there are several sections: "Hosts", "Services", "Business Intelligence", "Agents", and "Events". The "Users" section is expanded, showing "Users" and "Contact groups" (which is circled in red). Other options in the "Users" section include "Roles & permissions", "LDAP & Active Directory", and "Custom user attributes". To the right of the "Users" section, there is a "General" section containing links like "Rule search", "Global settings", and "Read only mode". Further down, there is a "Maintenance" section with links for "Backups", "Support diagnostics", and "Analyze configuration".

Ajouter un groupe de contact

The screenshot shows the 'Contact groups' page in the checkmk interface. The top navigation bar includes 'Contact groups', 'Related', 'Display', 'Help', and a 'Filter' dropdown. Below the navigation is a toolbar with 'Add group' (highlighted with a red circle), 'Rules', and other actions like 'Edit' and 'Delete'. A table lists contact groups, showing one entry named 'all' with an alias of 'Everything'. The left sidebar has links for 'Monitor', 'Customize', and 'Setup'.

Donner un nom et un alias au groupe de contact et sauvegarder

Aller ensuite au menu « Users »

The screenshot shows the 'Main dashboard' page. The top navigation bar includes 'Search in Setup' and a 'show less' button. The main content area features two columns: 'Hosts' on the left and 'Users' on the right. Under 'Hosts' are links for 'Hosts', 'Host monitoring rules', 'Tags', 'Host groups', 'Custom host attributes', and 'HW/SW inventory rules'. Under 'Users' are links for 'Users' (highlighted with a red circle), 'Contact groups', 'Roles & permissions', 'LDAP & Active Directory', and 'Custom user attributes'. The left sidebar has links for 'Monitor', 'Customize', and 'Setup'.

Modifier l'utilisateur doit recevoir les notifications

The screenshot shows the 'Users' page. The top navigation bar includes 'Users', 'Related', 'Display', 'Help', and a 'Filter' dropdown. Below the navigation is a toolbar with 'Add user', 'Delete selected users', and 'Migrate selected users'. A table lists users, showing two entries: 'automation' (Never logged in) and 'cmkadmin' (Last seen 2024-03-09 23:39:53). The 'cmkadmin' row has an edit icon (highlighted with a red circle) and a delete icon. The left sidebar has links for 'Monitor', 'Customize', and 'Setup'.

Renseigner l'adresse e-mail de l'utilisateur et l'ajouter au groupe de contact créé précédemment

The screenshot shows the 'Edit user cmkadmin' configuration page in the Checkmk interface. The 'Identity' section includes fields for 'Username' (cmkadmin), 'Full name' (cmkadmin), and 'Email address' (redacted). The 'Security' section shows 'Authentication' set to 'Normal user login with password'. The 'Contact Groups' section is expanded, showing 'Everything' selected and 'PROF' deselected.

Identity

- Username (required): cmkadmin
- Full name (required): cmkadmin
- Email address: [REDACTED] (circled)
- Pager address:
- Authorized sites: All sites

Security

- Authentication: Normal user login with password
 - password: [REDACTED]
 - repeat: [REDACTED] (optional)
 - Enforce change: Change password at next login or access
- Automation secret for machine accounts: [REDACTED]

Contact Groups

- Everything (selected)
- X PROF (deselected)

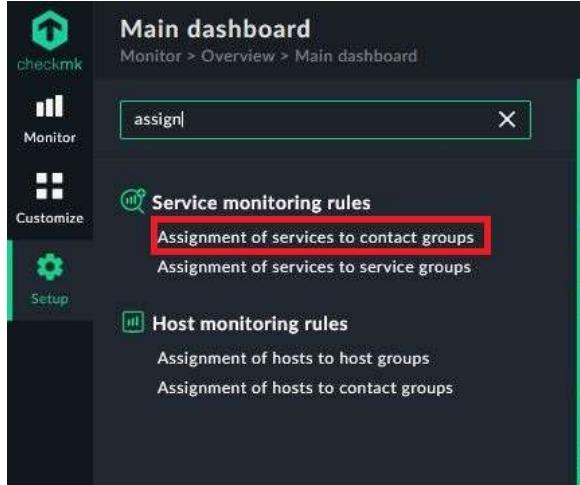
Navigation

- Monitor
- Customize
- Setup
- Help
- User
- Sidebar

User

- Save
- Users

Dans setup, chercher le menu « assignment of services to contact groups »

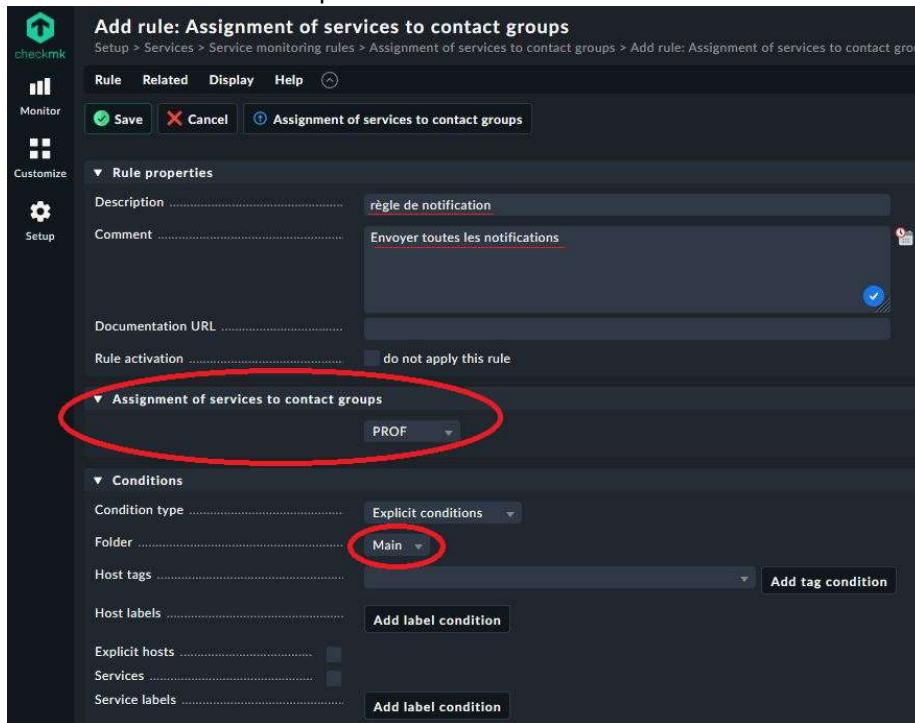


Ajouter une règle



Saisir la description de la règle et sélectionner le groupe de contact, cette partie permet de filtrer les notifications à envoyer en définissant des conditions.

Nous allons laisser les conditions par défaut pour l'instant afin d'envoyer les notifications pour l'ensemble des services supervisés.



Save

Aller dans le menu Notifications

The screenshot shows the Checkmk Main dashboard interface. The left sidebar contains several navigation items:

- checkmk** (Icon: Up arrow)
- Monitor** (Icon: Bar chart)
- Customize** (Icon: Grid)
- Setup** (Icon: Gear)
- Help** (Icon: Information)
- User** (Icon: Person)
- Sidebar** (Icon: Document)

The main content area is titled "Main dashboard" and shows the path "Monitor > Overview > Main dashboard". It includes a search bar labeled "Search in Setup" and a "show less" button.

The sidebar navigation items are organized into sections:

- Hosts**:
 - Hosts
 - Host monitoring rules
 - Tags
 - Host groups
 - Custom host attributes
 - HW/SW inventory rules
- Services**:
 - Service monitoring rules
 - Discovery rules
 - Enforced services
 - HTTP, TCP, Email, ...
 - Other Services
 - Service groups
 - Catalog of check plugins
- Business Intelligence**:
 - Business Intelligence
- Agents**:
 - Linux
 - Windows
 - Other operating systems
 - VM, Cloud, Container
 - Other integrations
 - Agent access rules
 - SNMP rules
- Events**:
 - Notifications** (This item is circled in red)
 - Event Console

On the right side of the dashboard, there are several links grouped under categories:

- Users**:
 - Users
 - Contact groups
 - Roles & permissions
 - LDAP & Active Directory
 - Custom user attributes
- General**:
 - Rule search
 - Global settings
 - Read only mode
 - Predefined conditions
 - Time periods
 - Passwords
 - Distributed monitoring
 - Audit log
 - Custom icons
- Maintenance**:
 - Backups
 - Support diagnostics
 - Analyze configuration
 - Background jobs

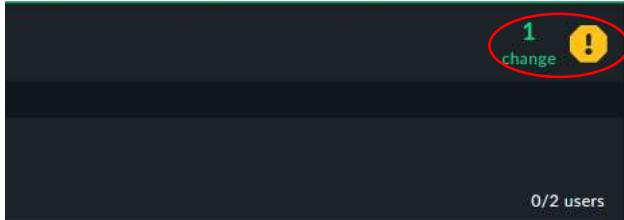
Ajouter une règle de notification (Add rule)

The screenshot shows the 'Notification configuration' page in the Checkmk interface. The top navigation bar includes 'Setup > Events > Notification configuration'. Below it, there are tabs for 'Notification rules', 'Display', 'Help', and 'Filter'. A prominent red circle highlights the 'Add rule' button, which is located in the top right corner of the main content area. The content area displays a table titled 'Global notification rules' with one entry: 'Notify all contacts of a host/service via HTML email'.

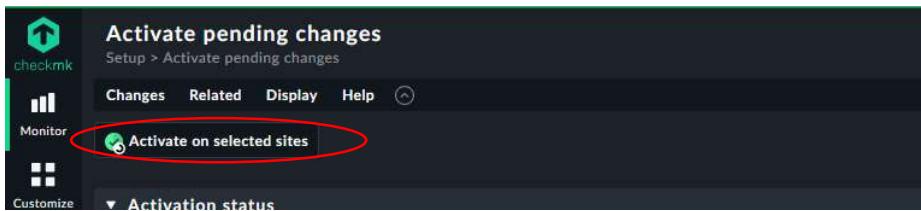
The screenshot shows the 'Edit notification rule 0' page. The top navigation bar includes 'Setup > Events > Notification configuration > Edit notification rule 0'. The main configuration area includes sections for 'Rule properties' (Description: 'Notify all contacts of a host/service via HTML email'), 'Documentation URL', 'Rule activation' (set to 'do not apply this rule'), 'Overriding by users' (with a red circle around the 'Allow users to deactivate this notification' option), and 'Notification method' (selected as 'HTML Email', highlighted with a red circle). Other notification methods listed include 'Create notification with the following params...', 'From', 'Reply to', 'Subject for host notifications', 'Subject for service notifications', 'Display additional information', 'Add HTML section above table (e.g. title, description...)', 'URL prefix for links to Checkmk', 'Display graphs among each other', 'Notification sort order for bulk notifications', 'Send separate notifications to every recipient', 'Graphs per notification (default: 5)', and 'Bulk notifications with graphs (default: 5)'. The 'Contact selection' section lists options like 'All contacts of the notified object' (with a red circle around the 'Notify all contacts of the notified host or service.' option), 'All users', 'All users with an email address', 'The following users', 'Members of contact groups', 'Explicit email addresses', 'Restrict by custom macros', and 'Restrict by contact groups'.

Save

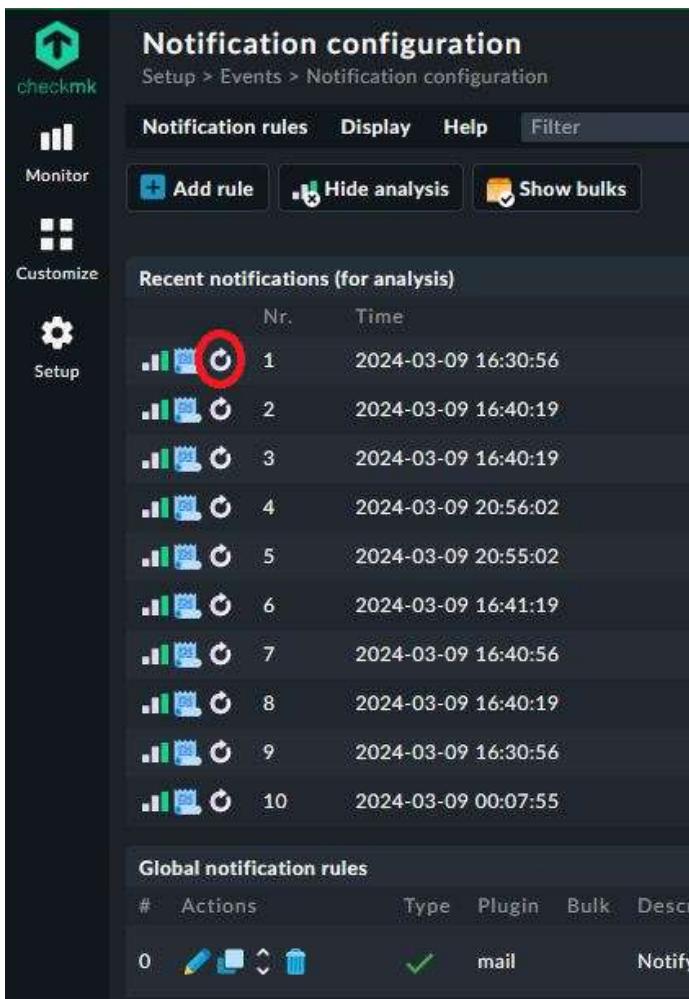
Cliquer l'icone jaune en haut à droite de la page :



Cliquer sur « activate on selected sites »



Dans le menu Notifications cliquer sur « show analysis » puis cliquer sur l'une des petites flèches afin de tester l'envoi de notifications.



Vérifier la messagerie Gmail