

Introduction à Open Monitoring Distribution (OMD)

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Plan de la présentation

- 1 Qu'est-ce que Open Monitoring Distribution (OMD)?
- 2 Présentation de Check_MK
- 3 Utilisation d'OMD

Qu'est-ce que Open Monitoring Distribution (OMD) ?

- Un ensemble d'outils dédiés à la supervision
- Multiplateforme
- Multi-utilisateurs avec gestion des droits
- Peu coûteux en bande passante
- rapide (utilisation de tmpfs pour stocker les résultats de sondes)
- Facile d'utilisation
- Tout en permettant des paramétrages poussés

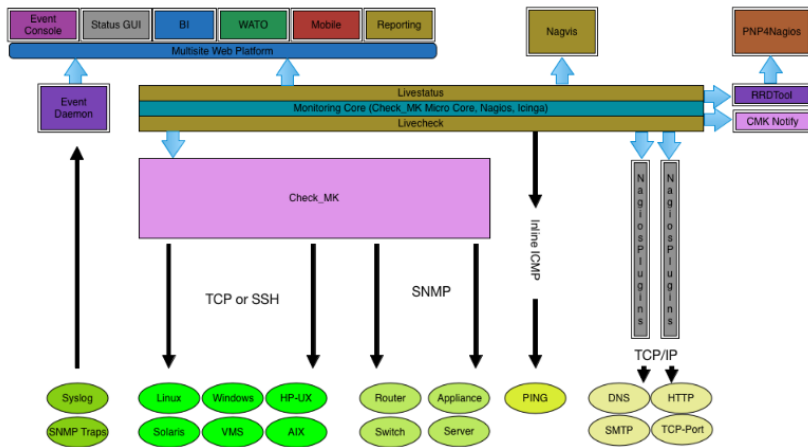
Il a été initié en 2010 par :

- Mathias Kettner (Check_MK et Livestatus)
- Lars Michelsen (NagVis)
- Jörg Linge (pnp4nagios)
- Sven Nierlein (Thruk)
- Wolfgang Barth, Gerhard Laußer et Stefan Hösl.

Liste des paquets qui peuvent être installés (OMD Labs Edition) :

- Coeurs de supervision : Nagios - Icinga 2 - Naemon
- Serveur Web : Apache
- GUI : Thruk
- Graphes : PNP4Nagios - Grafana - Nagflux - Histou
- Bases de données : MongoDB - MySQL/MariaDB - InfluxDB
- Add-ons : Mod-Gearman - Dokuwiki - NCSA - Coshsh - LMD
- Prometheus : Prometheus + AlertManager + Pushgateway + Blackbox exporter
- De nombreux plugins...

Architecture d'OMD



Présentation de Check_MK

- Add-on de supervision (licence GNU GPL v2) écrit au départ pour Nagios
- Règles avec notion d'héritage hiérarchique
- Nécessite l'installation d'un agent sur les équipements que l'on souhaite surveiller.
- Permet d'utiliser parallèlement les sondes habituelles, comme SNMP.
- L'agent envoie toute les informations d'un hôte en une seule fois. Gain en bande passante.
- Décharge le serveur de supervision des requêtes à effectuer. Gain considérable en charge CPU.
- Les configurations Nagios sont créées automatiquement
- Possibilité de créer nos propres scripts locaux (en python, perl, bash par exemple)
- Existence d'une interface Web pour configurer facilement Check_MK

Utilisation d'OMD

OMD - Open Monitoring Distribution

Version: 1.30

This page gives you a central view on the available GUIs in OMD. Just have a look and feel free to choose your favorite GUI. At the bottom of this page you can find short instructions on how to change the default GUI of OMD.

Classic Nagios GUI

The classic Nagios GUI is based on CGI program written in C. It retrieves its status information from status.dat. This interface is not longer actively developed and does not perform well in large installations.



Check_MK Multisite

Check_MK Multisite is a fast and flexible status GUI written in Python. It supports user definable views and is able to display the status of several sites in one combined view. It uses MK Livestatus for getting the status data from the sites.



Thruk Monitoring Webinterface

Thruk is a complete rework of the classic interface in Perl. While maintaining the original look and feel it brings lots of improvements and new features. Just as Multisite it uses MK Livestatus as backend and supports the visualization of multiple sites.



Classic Icinga GUI

Icinga's "classical" GUI is a derivate of the classical Nagios GUI and has been directly evolved from the original CGI programs in C. It has its own look and feel and brings useful improvements. It is not bound to



Présentation de l'interface web Check_MK Multisite

Check_MK 1.2.0p12 Main Overview

Tactical Overview
 Hosts: 80 Problems: 0 Unhandled: 0
 Services: 1561 Problems: 34 Unhandled: 34

Host Statistics
 Up: 80
 Down: 0
 Unreachable: 0
 In DownTime: 0
 Total: 80

Service Statistics
 OK: 1527
 In DownTime: 0
 On Down host: 0
 Warning: 14
 Unknown: 10
 Critical: 10
 Total: 1561

Host Problems (unhandled)

state	Host	Icons	Age	Status detail
CRIT	Supply Bouleville rcp_toner	🚨	2017-01-12 08:52	CRIT - 0% (levels at 10% / 5%)
CRIT	Supply Canon C-EXV 28 Yellow Toner	🚨	2017-02-01 10:37	CRIT - 0% (levels at 10% / 5%)
CRIT	bacula-...	🚨	2017-03-15 11:48	CRIT - Bacula CRITICAL: Found 0 successful jobs
CRIT	bacula-...	🚨	2017-03-15 11:52	CRIT - Bacula CRITICAL: Found 0 successful jobs
CRIT	bacula-...	🚨	2017-03-16 12:35	CRIT - Bacula CRITICAL: Found 0 successful jobs
CRIT	bacula-...	🚨	2017-03-16 12:35	CRIT - Bacula CRITICAL: Found 0 successful jobs
CRIT	Filesystem idata	🚨	2017-03-17 15:28	CRIT - 100.0% used (461.95 of 461.96 GB), (levels at 80.00/90.00%), trend: 0.00 B / 24 hours, inodes available 2944896/45%
CRIT	Filesystem home	🚨	2017-03-17 15:28	CRIT - 99.7% used (864.59 of 867.17 GB), (levels at 80.00/90.00%), trend: +63.59 kB / 24 hours, inodes available 1103766/55.57%
CRIT	Postfix Queue	🚨	2017-03-21 06:05	CRIT - Mailqueue length is 47 (More than threshold: 10)
CRIT	Alerts	🚨	2017-03-21 14:12	CRIT - markers/Supplies: The Yellow toner is out.
UNKN	Check_MK Discovery	🚨	2017-01-19 12:37	UNKNOWN - Cannot get data from TCP port [13.6.8.1.2.1.1.0:113] No route to host
UNKN	Check_MK Discovery	🚨	2017-03-21 11:34	UNKNOWN - Cannot fetch system description OID.1.3.6.1.2.1.1.1.0
UNKN	RAID	🚨		UNKNOWN - no such adapter/loical

Events of recent 4 hours

Time	Host	Service	Check output
2 min	...	RAID PDIsk AdapEncrSI e32/4	UNKNOWN - No disk in enclslot e32/4 found
2 min	...	RAID PDIsk AdapEncrSI e32/3	UNKNOWN - No disk in enclslot e32/3 found
2 min	...	RAID PDIsk AdapEncrSI e32/2	UNKNOWN - No disk in enclslot e32/2 found
2 min	...	RAID PDIsk AdapEncrSI e32/1	UNKNOWN - No disk in enclslot e32/1 found
2 min	...	RAID PDIsk AdapEncrSI e32/0	UNKNOWN - No disk in enclslot e32/0 found
3 min	...	RAID PDIsk AdapEncrSI e32/4	OK - Online (SEAGATE ST9500430S8 D9629SP12)
3 min	...	RAID PDIsk AdapEncrSI e32/3	OK - Online (SEAGATE ST9500430S8 D9629SP21)
3 min	...	RAID PDIsk AdapEncrSI e32/2	OK - Online (SEAGATE ST9500430S8 D9629SP22)
3 min	...	RAID PDIsk AdapEncrSI e32/1	OK - Online (HITACHI HUC151414CS660 K360PL)
3 min	...	RAID PDIsk AdapEncrSI e32/0	OK - Online (HITACHI HUC151414CS660 K360PL)
4 min	Interface 2		WARN - [FastEthernet0/1] (up) MAC: ... Mbits, in: 225.15 kB/s, in-errors: 0.01% [WARN] ==> 207.50 kBs
5 min	...		OK - ... rta 1.061ms, lost 0%
6 min	...		CRITICAL - 193.52.184.86: rta nan, lost 100%
7 min	Interface 2		WARN - [FastEthernet0/1] (up) MAC: ... Mbits, in: 133.12 kB/s, in-errors: 0.02% [WARN] ==> 118.05 kBs
8 min	...	RAID Adapter/Disk 0/1	UNKNOWN - no such adapter/loical disk found
8 min	...	RAID Adapter/Disk	UNKNOWN - no such adapter/loical disk found

Overview
 Hosts: All hosts, All hosts (Min), All hosts (Max), Favorite hosts, Host search, Host Groups, Host Groups (Grid), Host Groups (Summary), All services, Favorite services, Recently changed services, Serv. by host groups, Service search, Service Groups, Service Groups (Grid), Service Groups (Summary), Services by group, Business Intelligence, Problems, Addons, Inventory, Other, Comments, Downtimes, History of scheduled downtimes, Host- and Service events, Host- and Service notifications, Search Global Logfile

Bookmarks
 WATO: Configuration

Vues des services et des hôtes

Tactical Overview		
Hosts	Problems	Unhandled
80	0	0
Services	Problems	Unhandled
1561	24	24

Quicksearch

Views

- ▶ Overview
- ▼ Hosts
 - All hosts
 - All hosts (Mini)
 - All hosts (tiled)
 - Favorite hosts
 - Host search
- ▼ Host Groups
 - Host Groups
 - Host Groups (Grid)
 - Host Groups (Summary)
- ▼ Services
 - All services
 - Favorite services
 - Recently changed services
 - Serv. by host groups
 - Service search
- ▶ Service Groups
- ▶ Business Intelligence
- ▶ Problems
- ▶ Addons
- ▶ Inventory
- ▼ Other

DNS

state	Host	Icons	Alias	OK	Wa	Un	Cr	Pd
UP				17	0	0	0	0
UP				18	0	0	0	0

Gestion-versions

state	Host	Icons	Alias	OK	Wa	Un	Cr	Pd
UP				18	0	0	0	0
UP				18	0	0	0	0
UP				18	0	0	0	0

Notes-VM

state	Host	Icons	Alias	OK	Wa	Un	Cr	Pd
UP				36	0	0	0	0
UP				31	0	0	0	0
UP				31	0	0	0	0
UP				22	0	0	0	0
UP				23	0	0	0	0
UP				48	1	0	0	0
UP				43	0	0	0	0
UP				19	0	8	0	0

Imprimantes

state	Host	Icons	Alias	OK	Wa	Un	Cr	Pd
UP				19	0	0	1	0
UP				12	0	0	0	0
UP				11	0	0	0	0
UP				11	1	0	2	0

LDAP

state	Host	Icons	Alias	OK	Wa	Un	Cr	Pd
UP				17	0	0	0	0
UP				18	0	0	0	0
UP				17	0	0	0	0

RMN

state	Host	Icons	Alias	OK	Wa	Un	Cr	Pd
UP				11	0	0	0	0
UP				1	0	1	0	0
UP				4	0	0	0	0
UP				5	0	0	0	0

SAS

state	Host	Icons	Alias	OK	Wa	Un	Cr	Pd
UP				21	0	0	0	0
UP				18	0	0	0	0
UP				2	0	0	0	0
UP				17	0	0	0	0
UP				21	0	0	0	0
UP				22	0	0	0	0
UP				20	0	0	0	0

Stations

state	Host	Icons	Alias	OK	Wa	Un	Cr	Pd
UP				22	0	0	0	0
UP				26	0	0	0	0
UP				20	0	0	0	0
UP				25	0	0	0	0
UP				24	0	0	0	0
UP				29	2	0	2	0

WEB

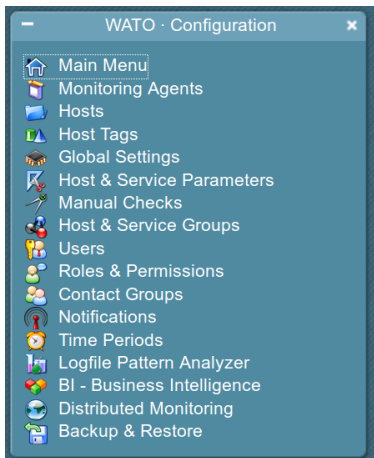
state	Host	Icons	Alias	OK	Wa	Un	Cr	Pd
UP				21	0	0	0	0
UP				20	0	0	0	0

Windows

state	Host	Icons	Alias	OK	Wa	Un	Cr	Pd
UP				10	1	0	0	0
UP				23	1	0	0	0
UP				33	1	0	0	0



L'interface WATO (Web Administration Tool)



Le menu Monitoring agents

The screenshot shows the OMD web interface. On the left is a navigation menu with 'Monitoring Agents' highlighted. The main content area shows a 'No Changes' status and a 'Main Menu' button. Below are three sections: 'Packed Agents', 'Example Configurations', and 'Linux / Unix Agents', each containing a list of items with their respective sizes.

Monitoring Agents

Packed Agents

check-mk-agent_1.2.6p12-1_all.deb	18 KB	check-mk-agent-1.2.6p12-1.noarch.rpm	20 KB
check_mk_agent.msi	625 KB		

Example Configurations

apache_status.cfg	1 KB	jolokia.cfg	1 KB
logwatch.cfg	2 KB	nginx_status.cfg	0 KB
sqlnet.ora	0 KB	sqlplus.sh	1 KB

Linux / Unix Agents

asmcmd.sh	1 KB	check-mk-agent.spec	3 KB
check_mk_agent.aix	7 KB	check_mk_agent.freebsd	13 KB
check_mk_agent.hpux	4 KB	check_mk_agent.linux	22 KB
check_mk_agent.macosx	4 KB	check_mk_agent.netbsd	5 KB
check_mk_agent.openbsd	7 KB	check_mk_agent.openvms	8 KB
check_mk_agent.solaris	9 KB	check_mk_caching_agent.linux	4 KB
mk-job	2 KB	mk-job.solaris	2 KB
waitmax	9 KB	xinetd.conf	2 KB
xinetd_caching.conf	2 KB		

Le menu Hosts

The screenshot displays the 'Main directory' interface of the Open Monitoring Distribution (OMD) software. At the top, there is a navigation bar with several buttons: 'No Changes', 'Main Menu', 'Rulesets', 'Manual Checks', 'Folder Properties', 'New folder', 'New host', 'New cluster', 'Bulk Import', 'Bulk Discovery', 'Parent scan', and 'Search'. Below this bar, a dropdown menu is open, showing 'Main directory' as the selected option. The main area of the interface is a grid of folder icons, each representing a host group. The folders and their contents are:

- Chimie: 6 Hosts
- Divers: 2 Hosts
- Imprimantes: 4 Hosts
- NAS: 4 Hosts
- reseau: 11 Hosts
- Serveurs Linux: 45 Hosts
- Serveurs Windows: 2 Hosts
- Stations Linux: 6 Hosts

Le menu Hosts - Création d'un nouvel hôte

Properties of host Gibbon

Folder Status Services Parameters Rename Host Diagnostic

▼ General Properties

Hostname Gibbon

▼ Basic settings

Permissions empty (Default value)

Alias empty (Default value)

IP address

Parents empty (Default value)

▼ Host tags

Agent type Check_MK Agent (Server)

Criticality Productive system (Inherited from Stations Linux)

Networking Segment Local network (low latency) (Inherited from Stations Linux)

Save & go to Services Save & Finish **Save & Test** Delete host!

Le menu Hosts - Test du nouvel hôte

Diagnostic of host Gibbon

Folder Status Properties Parameters **Services**

Host Properties

Hostname
Gibbon

IP address

SNMP Community

Save & Exit

Options

Check_MK Agent Port (Rules)
6056

SNMP-Timeout (Rules)
1 sec

SNMP-Retries (Rules)
5

Datasource Program (Rules)

Test

Ping

```
✓ PING ( ) 56(84) bytes of data,
64 bytes : icmp_seq=1 ttl=64 time=21.7 ms
64 bytes from : icmp_seq=2 ttl=64 time=22.9 ms
--- 2008.08.20.11.11 ping statistics ---
2 packets transmitted, 2 received, 0% packet loss, time 202ms
rtt min/avg/max/mdev = 21.755/22.344/22.933/0.589 ms
```

Agent

```
✓ <<check_mk>>
Version: 1.2.6p12
AgentOS: linux
AgentDirectory: /etc/check_mk
DataDirectory: /var/lib/check_mk_agent
SpoolDirectory: /var/lib/check_mk_agent/spool
PluginsDirectory: /usr/lib/check_mk_agent/plugins
LocalDirectory: /usr/lib/check_mk_agent/local
```

SNMPv1

```
✗ SNMP Error on : Timeout: No Response from (Exit-Code: 1)
```

SNMPv2c

```
✗ SNMP Error on : Timeout: No Response from (Exit-Code: 1)
```


Le menu Hosts - Services découverts par Check_MK

Services of host Gibbon (might be cached data) 14:22

Folder
Status
Properties
Parameters
Diagnostic
Full Scan

Save manual check configuration
Automatic Refresh (Tabula Rasa)
Hide Check Parameters

Already configured services

Status	Checkplugin	Item	Service Description	Plugin output	Check Parameters		
OK	cpu.loads	None	CPU load	15min load 27.45 at 64 CPUs	5.00 per core, 10.00 per core		<input checked="" type="checkbox"/>
OK	cpu.threads	None	Number of threads	793 threads	2000 threads, 4000 threads		<input checked="" type="checkbox"/>
OK	df	/	Filesystem /	14.3% used (8.46 of 59.22 GB), (levels at 80.00/90.00%), trend: 0.00 B / 24 hours, inodes available 3793k/95.88%	Levels for filesystem: Levels for filesystem used space Percentage used space 80.0%, 90.0% 20 GB		<input checked="" type="checkbox"/>
OK	df	/home	Filesystem /home	9.2% used (145.60 GB of 1.54 TB), (levels at 80.00/90.00%), trend: 0.00 B / 24 hours, inodes available 104763k/99.87%	Levels for filesystem: Levels for filesystem used space Percentage used space 80.0%, 90.0% 20 GB		<input checked="" type="checkbox"/>
PEND	diskstat	SUMMARY	Disk IO SUMMARY	WAITING - Counter based check, cannot be done offline	(no parameters)		<input checked="" type="checkbox"/>
PEND	kernel	Context Switches	Kernel Context Switches	WAITING - Counter based check, cannot be done offline	Do not impose levels, always be OK		<input checked="" type="checkbox"/>
PEND	kernel	Major Page Faults	Kernel Major Page Faults	WAITING - Counter based check, cannot be done offline	Do not impose levels, always be OK		<input checked="" type="checkbox"/>
PEND	kernel	Process Creations	Kernel Process Creations	WAITING - Counter based check, cannot be done offline	Do not impose levels, always be OK		<input checked="" type="checkbox"/>
OK	kernel.util	None	CPU utilization	user: 27.9%, system: 0.1%, wait: 0.0%, total: 28.0%	(no parameters)		<input checked="" type="checkbox"/>
OK	inx_if	6	Interface 6	[eth0] [up] speed unknown	Levels for error rates: 0.010%, 0.100% Operating speed: 0 Operational State: up(1)		<input checked="" type="checkbox"/>
OK	inx_thermal	0	Temperature 0	Temperature is 52 °C			<input checked="" type="checkbox"/>
OK	inx_thermal	1	Temperature 1	Temperature is 48 °C			<input checked="" type="checkbox"/>
OK	mem.used	None	Memory used	5.25 GB used (5.23 RAM + 0.00 SWAP + 0.02 PageTables, this is 4.2% of 126.06 RAM (14.90 total SWAP)), 0.1 mapped, 2.8 committed, 0.1 shared	Levels for memory: Levels for memory used 150.0%, 200.0%		<input checked="" type="checkbox"/>
					data=ordered		<input checked="" type="checkbox"/>

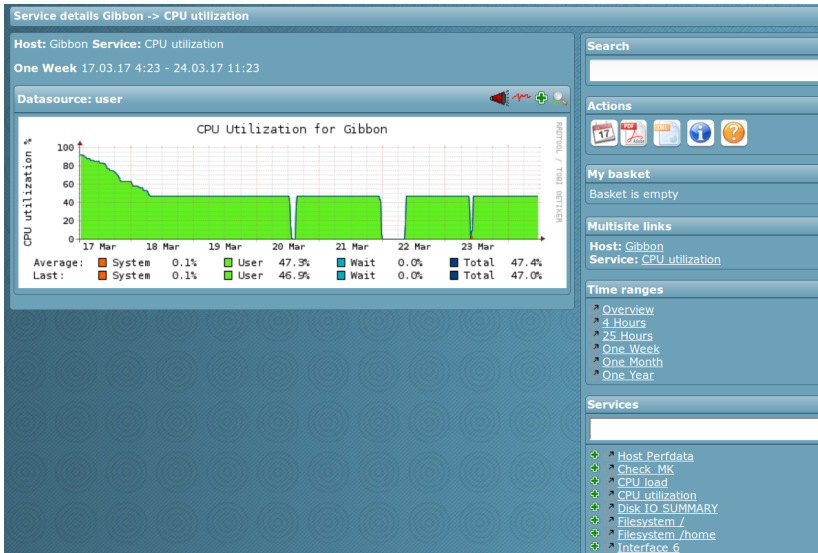
Le menu Hosts - Vérification de l'état de l'hôte - Status

Services of Host Gibbon 19 rows 14:26

WATO Host status Inventory Edit View Availability

State	Service	Icons	Status detail	Age	Checked	Perf-O-Meter
OK	Check_MK		OK - Agent version 1.2.6p12, execution time 0.2 sec	2017-01-09 10:10:34	50 sec	0.2 s
OK	Check_MK Discovery		OK - no unchecked services found	2017-01-19 12:37:25	104 min	
OK	CPU load		OK - 15min load 27.46 at 64 CPUs	2017-01-09 10:10:34	50 sec	27.4
OK	CPU utilization		OK - user: 46.9%, system: 0.1%, wait: 0.0%, total: 47.0%	2017-01-09 10:10:34	50 sec	47%
OK	Disk IO SUMMARY		OK - 0.00 B/sec read, 31.73 kB/sec write, IOs: 2.22/sec	2017-01-09 10:11:34	50 sec	0.00 Ms 0.03 Ms
OK	Filesystem /		OK - 14.3% used (8.46 of 59.22 GB), (levels at 80.00/90.00%), trend: +91.39 kB / 24 hours, inodes available 3793k/95.88%	2017-01-09 10:10:34	50 sec	14.28 %
OK	Filesystem /home		OK - 9.2% used (145.60 GB of 1.54 TB), (levels at 80.00/90.00%), trend: -847.25 MB / 24 hours, inodes available 104783k/99.87%	2017-01-09 10:10:34	50 sec	9.24 %
OK	Interface 6		OK - [eth0] (up) speed unknown, in: 406.00 B/s, out: 945.46 B/s	2017-01-09 10:10:34	50 sec	406.0B/s 945.5B/s
OK	Kernel Context Switches		OK - 755/s	2017-01-09 10:11:34	50 sec	755.1/s
OK	Kernel Major Page Faults		OK - 0/s	2017-01-09 10:11:34	50 sec	0.0/s
OK	Kernel Process Creations		OK - 35/s	2017-01-09 10:11:34	50 sec	35.3/s
OK	Memory used		OK - 5.24 GB used (5.23 RAM + 0.00 SWAP + 0.01 Pagetables, this is 4.2% of 126.06 RAM (14.90 total SWAP)), 0.1 mapped, 2.8 committed, 0.1 shared	2017-01-09 10:10:34	50 sec	4%
OK	Mount options of /		OK - mount options exactly as expected	2017-01-09 10:10:34	50 sec	
OK	Mount options of /home		OK - mount options exactly as expected	2017-01-09 10:10:34	50 sec	
OK	Number of threads		OK - 793 threads	2017-01-09 10:10:34	50 sec	793
OK	TCP Connections		OK - ESTABLISHED: 3, CLOSE_WAIT: 1, TIME_WAIT: 1	2017-01-09 10:10:34	50 sec	
OK	Temperature 0		OK - Temperature is 52 °C	2017-01-09 10:10:34	50 sec	52 °C
OK	Temperature 1		OK - Temperature is 48 °C	2017-01-09 10:10:34	50 sec	48 °C
OK	Uptime		OK - up since Mon Oct 24 11:04:51 2016 (134d 04:20:47)	2017-01-09 10:10:34	50 sec	134d 04h 20m

Métrie avec PNP4Nagios



Le menu Host & Services parameters

The screenshot shows the 'Rule-Based Configuration of Host & Service Parameters' interface. At the top, there are three status buttons: 'No Changes' (with a warning icon), 'Main Menu' (with a home icon), and 'Ineffective rules' (with a clipboard icon). Below these is a 'Main directory' dropdown menu. A search bar is labeled 'Search for rules:' with a 'Search' button. The main area contains nine configuration cards, each with a wrench icon and a red 'X' in a circle:

- Active checks (HTTP, TCP, etc.)**: Configure active networking checks like HTTP and TCP.
- Grouping**: Assignment of host & services to host, service and contacts groups.
- Monitoring Configuration**: Intervals for checking, retries, clustering, configuration for inventory and similar.
- Access to Agents**: Settings concerning the connection to the Check_MK and SNMP agents.
- Parameters for discovered services**: Levels and other parameters for checks found by the Check_MK service discovery.
- Datasource Programs**: Specialized agents, e.g. check via SSH, ESX vSphere, SAP R/3.
- Hardware/Software-Inventory**: Configuration of the Check_MK Hardware and Software Inventory System.
- Event Console**: Settings and Checks dealing with the Check_MK Event Console.
- Used Rulesets**: Show only modified rulesets (all rulesets with at least one rule).

Menu principal pour la création et la visualisation des règles

Le menu Host & Services parameters - Active checks

Active checks (HTTP, TCP, etc.)

No Changes Main Menu All Rulesets Folder

Main directory

▼ Active checks (HTTP, TCP, etc.)

Check DNS service	1	Check Email	0
Check Email Delivery	0	Check FTP Service	1
Check HTML Form Submit	0	Check HTTP service	3
Check Number of Notifications per Contact	0	Check SQL Database	0
Check SSH service	1	Check State of BI Aggregation	0
Check access to LDAP service	1	Check access to SMB share	0
Check access to SMTP services	1	Check connecting to a TCP port	7
Check current routing (uses traceroute)	0	Check hosts with PING (ICMP Echo Request)	0
Check uniserv service	0	Classical active and passive Monitoring checks	0

Création de sondes actives (requêtes depuis le serveur)

Le menu Host & Services parameters - Active checks - exemple d'une sonde LDAP

Edit rule Check access to LDAP service

This check uses check_ldap from the standard Nagios plugins in order to try the response of an LDAP server.

▼ Conditions

Folder *- Serveurs Linux ▼

Host tags Agent type: ignore ▼
Criticality: ignore ▼
Networking Segment: ignore ▼
Types de serveurs: ignore ▼
monitor via SNMP: ignore ▼
monitor via Check_MK Agent: ignore ▼

Explicit hosts Specify explicit host names

 Negate: make rule apply for all but the above hosts

Le menu Host & Services parameters - Active checks - exemple d'une sonde LDAP

Active checks						
Status	Checkplugin	Item	Service Description	Plugin output	Check Parameters	
OK		LDAP	LDAP	LDAP OK - 0.003 seconds response time	TCP Port: 389 LDAP Version: Version 3 Expected response time: 1000.00 ms, 2000.00 ms Seconds before connection times out: 10 sec	
OK	ssh	SSH	SSH	SSH OK - OpenSSH_6.0p1 Debian-4+deb7u2 (protocol 2.0)	(no parameters)	

Vérification du fonctionnement de la sonde active

Test du serveur DNS

New rule Check DNS service

Check the resolution of a hostname into an IP address by a DNS server. This check uses check_dns from the standard Nagios plugins.

▼ Conditions

Folder:

Host tags:

- Agent type:
- Criticality:
- Networking Segment:
- monitor via SNMP:
- monitor via Check_MK Agent:

Explicit hosts: Specify explicit host names

Negate: make rule apply for all but the above hosts

▼ Check DNS service

Queried Hostname or IP address:

DNS Server

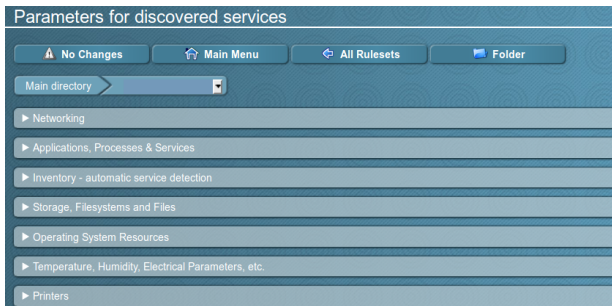
- Use local DNS configuration of monitoring site
use local configuration
- Specify DNS Server

Optional parameters

- Expected answer (IP address or hostname)
- Expect Authoritative DNS Server
- Expected response time
- Seconds before connection times out

OK	CPU load		OK - 15min load 0.00
OK	CPU utilization		OK - user: 0.1%, system: 0.2%, wait: 0.1%, total: 0.3%
OK	DNS		DNS OK: 0.118 seconds response time. returns 15

Le menu Host & Services parameters - Parameters for discovered services



permet d'affiner les seuils d'alertes des services découverts automatiquement

Le menu Host & Services parameters - Parameters for discovered services - exemple 1

Conditions

Folder: - Serveurs Windows

Host tags: Agent type: ignore

Criticality: ignore

Networking Segment: ignore

Types de serveurs: ignore

monitor via SNMP: ignore

monitor via Check_MK Agent: ignore

Specify explicit host names:

Negate: make rule apply for all but the above hosts:

Specify explicit values:

Name Of The Service: Bacula-fd

Parameters

Services states:

Expected state	Start type	Resulting state
running	auto	OK

OK

Service Bacula-fd



OK - Bacula File Backup Service: running (start type is auto)

vérification de l'état du service Windows client Bacula

Parameters for discovered services - exemple 2 - Services Windows

Conditions

Folder: - Serveurs Windows

Host tags: Agent type: ignore, Criticality: ignore, Networking Segment: ignore, monitor via SNMP: ignore, monitor via Check_MK Agent: ignore

Explicit hosts: Specify explicit host names

Autostart Services

Ignored autostart services

Default state if stopped autostart services are found: WARN

OK	Memory and pagefile	OK - Memory usage: 47.7% (1.9/3.9 GB), Page file usage: 43.4% (2.0/4.6 GB)	2
OK	Service Bacula-fd	OK - Bacula File Backup Service: running (start type is auto)	2
WARN	Services Summary	WARN - 159 services, 52 services in autostart - of which 2 services are stopped (ShellHWDetection, sppsvc), 0 services stopped but ignored	2
OK	System Time	OK - Offset is +23.5 sec (levels at 30/60 sec)	2

Ajout d'un plugin à un hôte - Nombre de logins

- Nécessite l'installation du plugin `mk_logins` dans `/usr/lib/check_mk_agent/plugins` sur le client.
- les plugins se trouvent sur le serveur OMD dans `/opt/omd/sites/nom-de-votre-site/share/check_mk/checks/`
- il y en a plus de 600 utilisables

Parameters						
			Warning at	<input type="text" value="5"/>	users	
			Critical at	<input type="text" value="10"/>	users	
OK	lnx_thermal	0	Temperature 0	Temperature is 39 °C		
OK	logins	None	Logins	3 logins on system, levels at 5/10	5 users, 10 users	
OK	mem.used	None	Memory used	0.12 GB used (0.12 RAM + 0.00 SWAP + 0.00 Pagetables, this is 25.6% of 0.48 RAM (0.00 total SWAP)), 0.0 mapped, 0.2 committed, 0.0 shared	Levels for memory:	Levels for used memory 150.0% 200.0%


Ajout de plugins à un hôte - exemple d'un plugin Apache

The screenshot shows the 'Monitoring Agents' interface with a list of plugins under the 'Linux / Unix Plugins' section. The 'apache_status' plugin is highlighted with a red box.

Plugin Name	Size
README	0 KB
hpux_lunstats	2 KB
lnx_quota	1 KB
mk_inventory.solaris	2 KB
mk_logwatch_aix	0 KB
mk_oracle.solaris	7 KB
mk_sap	16 KB
netstat.linux	1 KB
plesk_backups	4 KB
symantec_av	1 KB
websphere_mq	3 KB
apache_status	5 KB
db2_mem	2 KB
jar_signature	2 KB
mk_inventory.aix	10 KB
mk_logins	2 KB
mk_oracle	1 KB
mk_oracle_crs	3 KB
mk_zypper	1 KB
nfsexports.solaris	2 KB
runas	3 KB
unitrends_replication	3 KB

Résultat en local et sur Multisite du plugin
















```
ServeurWeb:/usr/lib/check_mk_agent/plugins# ./apache_status
<<<apache_status>>>
206 80 Total Accesses: 44302
206 80 Total kBytes: 4108983
206 80 CPUload: .00243904
206 80 Uptime: 720365
206 80 ReqPerSec: .0614994
206 80 BytesPerSec: 5840.93
206 80 BytesPerReq: 94975.4
206 80 BusyWorkers: 1
206 80 IdleWorkers: 9
206 80 Scoreboard: W.....
ServeurWeb:/usr/lib/check_mk_agent/plugins#
```

OK	Apache Status	206 80		OK - Uptime: 8 days, IdleWorkers: 9, BusyWorkers: 1, OpenSlots: 150, TotalSlots: 150, CPUload: 0.00, ReqPerSec: 0.03, BytesPerReq: 94989.60, BytesPerSec: 34.13, States: (Waiting: 9, SendingReply: 1)
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Ajout de plugin Nagios - exemple de surveillance du Raid

Sur l'hôte à surveiller :

- installation du plugin Nagios `check_megasasctl` dans `/usr/lib/check_mk_agent/plugins`
- création fichier `/etc/check_mk/mrpe.cfg` :

Surveillance-RAID		<code>/usr/lib/check_mk_agent/plugins/check_megasasctl</code>	
OK	Number of threads	  	OK - 214 threads
OK	Postfix Queue	  	OK - The mailqueue is empty
OK	Surveillance-RAID	  	OK - OK: RAID ARRAYS OPTIMAL, ALL DISKS ONLINE, ALL DISKS OPTIMAL, ALL BBU(s) OK
OK	TCP Connections	  	OK - ESTABLISHED: 2, TIME_WAIT: 1
OK	Temperature 0	  	OK - Temperature is 60 °C

Quelques liens :

- <https://monitoring-portal.org/index.php?board/99-omd>
- <http://omdistro.org/start>
- <https://labs.consol.de/nagios/omd-repository>
- https://mathias-kettner.de/checkmk_omd.html