



# Check\_MK Conference

Treasures

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# Agenda

- Who am I
- Treasures
- Demo
- Treasures
- Demo
- ...
- Questions



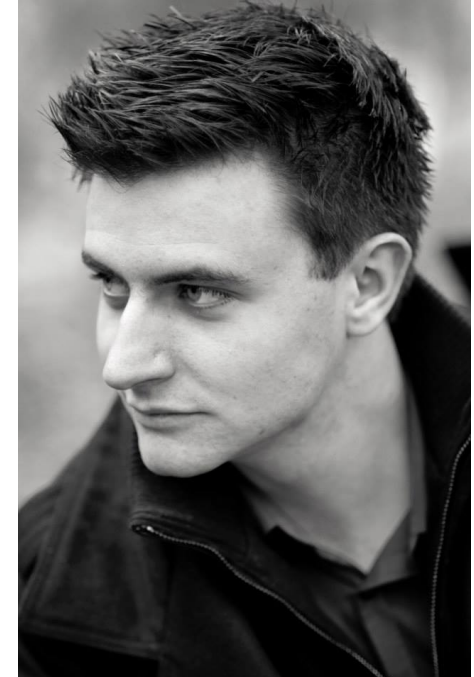
# Who am I and what we do

## Tim Despiegelaere

- System Engineer @ **Synergics**
- **Lead monitoring**
- Since 2009

 @Synergics\_MaaS

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# Who am I and what we do

**Nagios<sup>®</sup>**  
**Core<sup>™</sup>**



**GROUNDWORK**  
OPEN SOURCE



**check**

**UZ  
LEUVEN**

**Pfizer**

**in2com**

**attentia**

**AGORIA**  
no future without technology

**AGFA** *Agfa*  
HealthCare

**B** Koning  
Boudewijnstichting  
Samen werken aan een betere samenleving



# What are those treasures?

YOU



# What are those treasures?



/  
opt/omd/versions/1.2.6p11.mk/share/doc/check\_mk/treasures/

```
[Synergics@sdtcsynomd1 treasures]$ ls
active_checks          cmk-delete-host      fsc_ipmi_mem_status.sh  mk_oracle.old        wato_hook_cleanup_folders.py
agent_ipmi            cmk-plugin-statistics  get_rrd_cache_stats     modbus                wato_host_svc_groups.py
agent_wrapper.php     colorgrep            host_to_ping_check.sh   msexchange            wato_import.py
check_curl            config_snippets      incomplete_checks       multisite_to_mrpe     wato_include_hosts
check_flapping        deprecated           inventory               nagvis_icon           webapps
check_imap_folder     downtime            inventory_helper.sh     notification_report.sh wikiPainter.py
check_livestatus      ds_random_bi.mk     livedump                notifications          windows_msi
check_mk.bash_completion duallan_check        liveproxy              opcmsg                win_if_check.bat
check_nagios_states  Event_Console        localchecks             speedometer.xcf       workplace
check_nagios_states.php find_piggy_orphans   migrate_cpu_load.sh    unix_cache_plugins.sh zombies.mk
check_servicegroup   fsc-celsius-m470-sel-1.2.tar.gz mknotifyd              wato_geo_fields.py

[Synergics@sdtcsynomd1 treasures]$ █
```



# Treasure: find\_piggy\_orphans

find\_piggy\_orphans



ESX Data is piggyback data

Scripts uses livestatus query to verify vm's not added into Check\_MK





# Treasure: find\_piggy\_orphans

```
./find_piggy_orphans
```



```
OMD[synergics]:$ ./find_piggy_orphans
```

```
10.46.221.15
```

```
10.46.221.16
```

```
10.46.221.17
```

```
10.46.221.18
```

```
10.46.221.19
```

```
10.46.221.31
```

```
10.46.221.32
```

```
10.46.221.33
```

```
10.46.221.34
```

```
apr024202
```

```
pdcmmcm
```

```
sdiaagoaggdb1
```

```
sdiaaitotdev1
```

```
...
```



# Treasure: downtime

./downtime



creating or removing downtimes

Requirement: automation user

6 modes, set & remove for: host, service(s), host + services



# Treasure: downtime

./downtime



Usage: downtime [-r] [OPTIONS] HOST [SERVICE1] [SERVICE2...]

## Set a downtime

```
./downtime -v -d 10 -c "Check_MK Conference demo" -S DIWWGYFHGXGUVLXJQAJKD  
sdtdsynomd1
```

## Remove a downtime

```
./downtime -r -v -d 10 -S DIWWGYFHGXGUVLXJQAJKD sdtdsynomd1
```



# Treasure: livedump

`./livedump`



Must run Nagios core (remote can run CMC)

Dump configuration & status

Creates passive services

No `obsess_over` needed with `ocsp` commands



# Treasure: cmk-delete-host

`./cmk-delete-host`



Delete host (internally using web API)

Also deletes config, data and restarts site

Requirement: automation user (set in script)



# Treasure: agent\_wrapper.php

./agent\_wrapper.php



If extra ports to the agents are not allowed. (ex. 6556)

Can be placed on any webserver.

Contains 1 line... `system("/usr/bin/check_mk_agent")`



## Datasource Programs

Specialized agents, e.g. check via SSH,  
ESX vSphere, SAP R/3

Individual program call instead of agent access ..... 1



# Treasure: cmk-plugin-statistics

`./cmk-plugin-statistics`



Uses livestatus query to count plugins used in your site

```
./cmk-plugin-statistics
443 check-mk-inventory
443 check-mk
356 check_mk_active-mkevents
294 check_mk-snmp_info
235 check_mk-uptime
...
```



## ./modbus



Mostly used in industrial environments and appliances.

Does not work out of the box.

usage: agent\_modbus <host ip> <host port> <address:#words(1 or 2):counter|gauge:name>

example: agent\_modbus 192.168.0.1 502 856:2:counter:active\_energy

If you want to test Modbus, have a look at [https://github.com/AndreySV/check\\_modbus](https://github.com/AndreySV/check_modbus) as well





# Treasure: check\_curl

`./check_curl`



Just like `check_http`!

Main difference: `check_curl` supports proxy servers

Usage: `check_proxy [-P PROXYUSER:PROXYPASSWORD PROXYURL] URL [ TEXT ]`



## ./msexchange



Several Exchange counters

- MSExchange ADAccess Domain Controllers
- MSExchangeTransport Dumpster
- MSExchangeIS Mailbox
- MSExchange ActiveSync
- MSExchange RpcClientAccess
- MSExchange Database



# Treasure: msexchange

./msexchange



Attention for "MSEExchangeIS Mailbox"

counter: 66720=MSEExchangeIS Mailbox ☐ not working

Don't forget to copy the "winperf" files to the local checks directory



# Treasure: get\_rrd\_cache\_stats

```
./get_rrd_cache_stats
```



Get RRD statistics from a running site (from rrdcached)

Data received:

```
$ date; ./get_rrd_cache_stats
```

```
Sun Oct 11 18:56:00 CEST 2015
```

```
UpdatesWritten : 2463548
JournalBytes   : 19599733060
QueueLength    : 0
FlushesReceived : 14249
JournalRotate  : 34
TreeDepth      : 18
UpdatesReceived : 150231349
DataSetsWritten : 144189425
TreeNodeNumber : 45134
```

```
Sun Oct 11 18:56:05 CEST 2015
```

```
2463583
19600030679
0
14249
34
18
150233620
144191905
45134
```

```
5 sec difference
```

```
35
297619 (= 290 KB)
0
0
0
0
2271
2480
0
```



# Treasure: check\_fstab\_mounts

./check\_fstab\_mounts



Local check for checking if everything is mounted that is on auto in fstab.

Just put it in "local" folder of check\_mk\_agent

| Available (missing) services |             |                    |                     |                                                      |
|------------------------------|-------------|--------------------|---------------------|------------------------------------------------------|
| Status                       | Checkplugin | Item               | Service Description |                                                      |
| OK                           | local       | Mounted_Fileystems | Mounted_Fileystems  | All 6 expected filesystems of /etc/fstab are mounted |



# Treasure: zombies

./zombies



Local check for checking if there are zombie processes

Just put it in "local" folder of check\_mk\_agent

| Available (missing) services |             |         |                     |                   |
|------------------------------|-------------|---------|---------------------|-------------------|
| Status                       | Checkplugin | Item    | Service Description |                   |
| OK                           | local       | Zombies | Zombies             | zombies is 0.0(.) |



## ./notifications/\*



Several scripts to notify using

- Mobilant
  - German SMS gateway: <http://www.mobilant.de/>
- MultiTech
  - Sending SMS using a own gateway/modem: <http://www.multitech.com/brands/multimodem-isms>
- Pushover
  - Android/iPhone app – <http://pushover.net>
- SNMP trap
  - Sending snmp traps



Questions?

