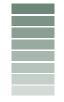


# Check\_MK nluug

Tim Despiegelaere
System Engineer
Lead Monitoring

# Agenda

- Who am I
- Why Monitoring can be a pain in the \*ss
- How to improve
- What is Check\_MK and OMD
- Different versions
- Architecture
- Differences & Benefits
- Demo
- Questions

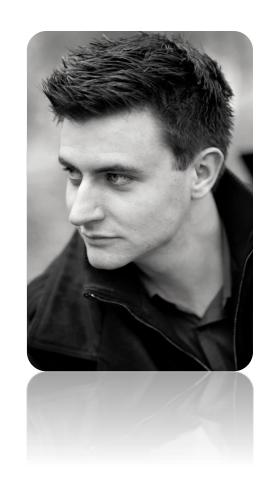


## Who am I

# Tim Despiegelaere

- System Engineer @ Synergics
- Lead monitoring
- Since 2009

- Synergics\_MaaS
- tim@synergics.be





# Road to Check\_MK















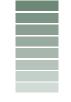




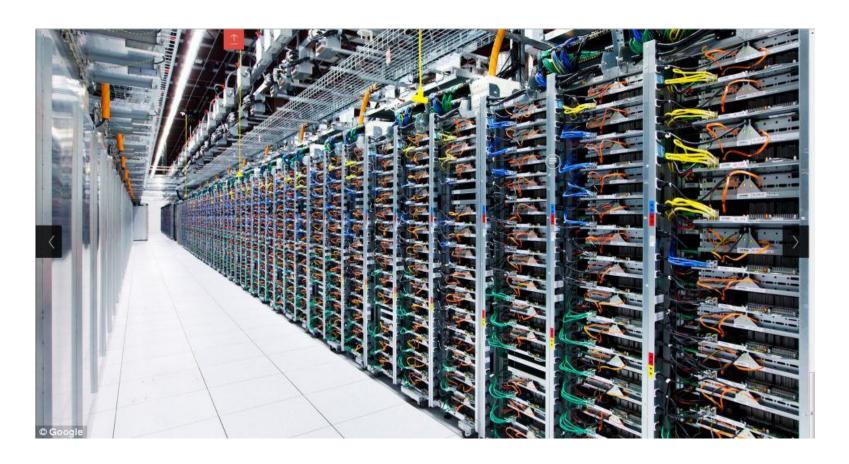








What to monitor? Is everything still working?







The C drive is not full and CPU is below 90.







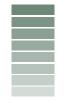
Relax, the server will tell us if it's on fire.





# Everything is on fire





# What is Check\_MK and OMD

OMD = Open Monitoring Distribution

http://omdistro.org/









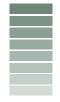












## What is Check\_MK and OMD

Check\_MK

http://mathias-kettner.com/

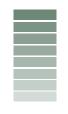












## **Different versions**



#### raw

Free version

Multisite

Nagios core

# enterprise

Pay version

Multisite

CMC core

Reporting

**Better SNMP** 

**Graphite Integration** 

# appliance

Same as enterprise

OS admin: web-GUI

Integrated HA

•••

# What is Check\_MK and OMD

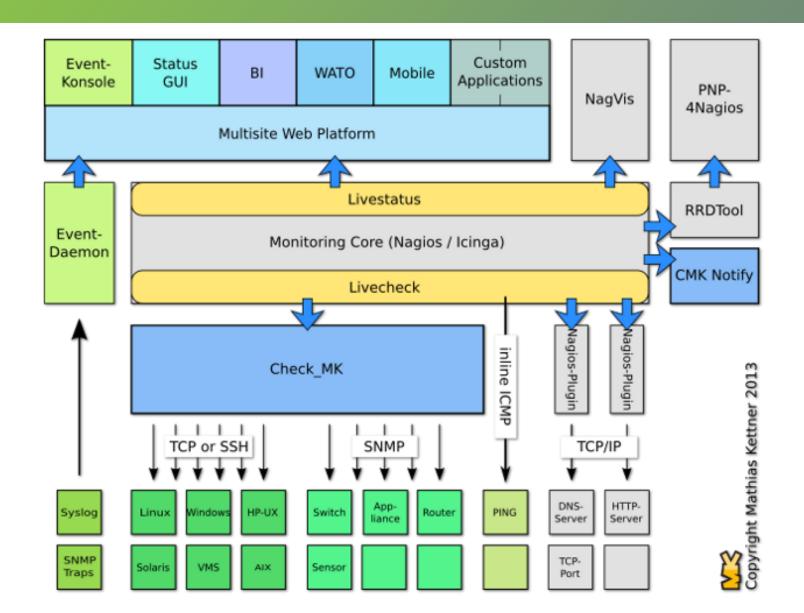
The Best Monitoring Tool.

Why? I'll convince you.



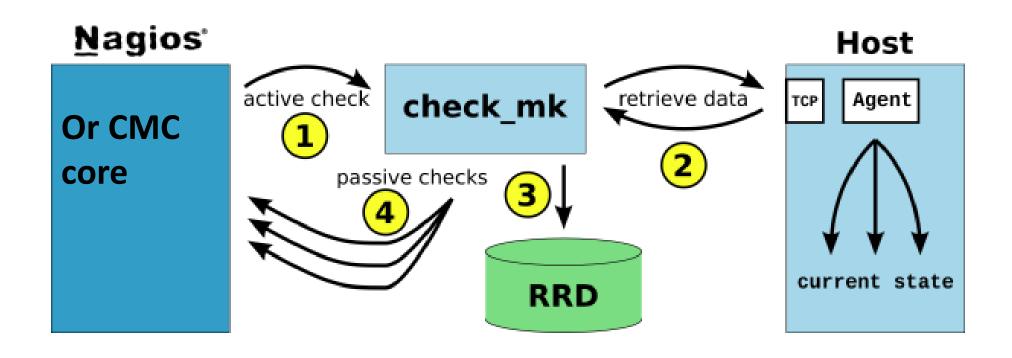


## Architecture





# Polling mechanism

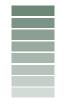




Small but very effective agent

Windows, Linux, Solaris, ...

 No need to install any framework, works on all versions



# Service inventory

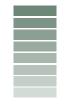
 Out of the box: Cpu, memory, all disks, all network cards, uptime, services, processes, ...

Out of the box: hardware checks! HP, Cisco, IBM,
 Juniper, APC, Dell, Netapp, EMC, ...



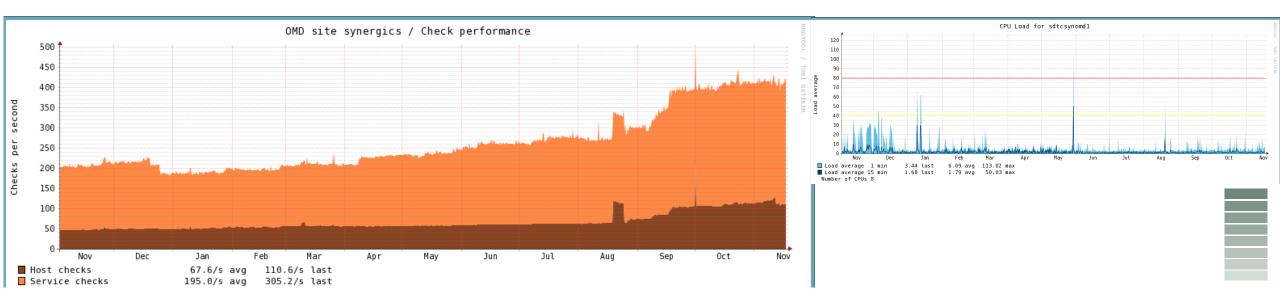
#### API

- Use the API to automate things
- Web requests and commandline

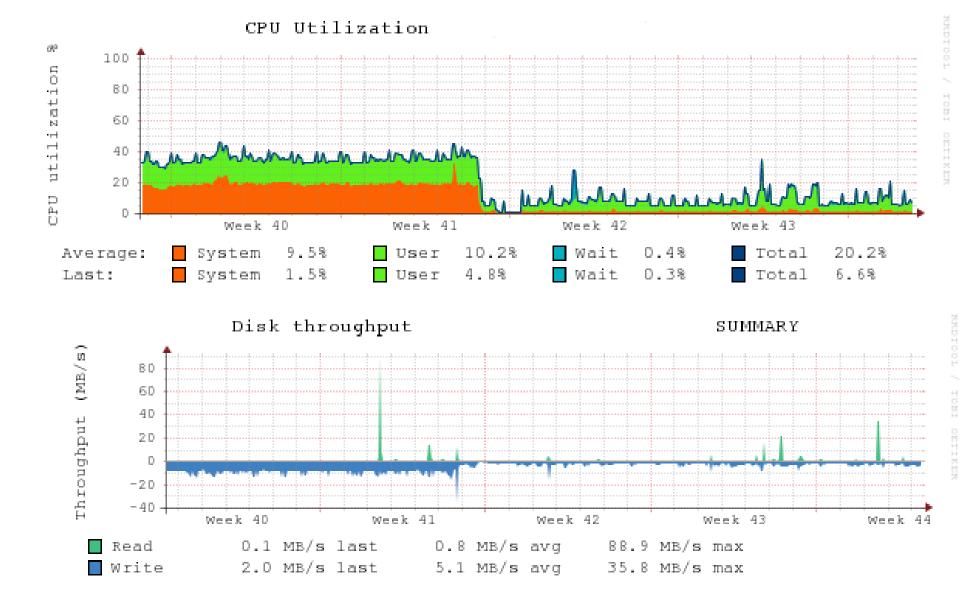


#### CMC core

- Much more performant
- Web requests and commandline



#### CMC core



#### Smart Vmware ESX checks

- Uses vcenter or ESX hosts
- Merges monitoring data

ок	ESX CPU	<b>⊘</b> 🕏 🐺 掛	ESX CPU	OK - demand is 1.495 Ghz, 2 virtual CPUs
ОК	ESX Datastores	<b>6</b> 🕏 🏋	ESX Datastores	OK - Stored on STOR_DIA_WINDOWS01 (1.70 TB/35.3
ок	ESX Guest Tools	G 🕏 🌾	ESX Guest Tools	OK - VMware Tools is installed, and the version is curre
ОК	ESX Heartbeat	<b>⊙</b> 🕏 🔀	ESX Heartbeat	OK - Heartbeat status is green
ОК	ESX Hostsystem	<b>⊙</b> 🕏 🔀	ESX Hostsystem	OK - Running on sdtcsynvs5esx10.localwan.net
ОК	ESX Memory	G 🕏 🌠 掛	ESX Memory	OK - Host: 3.72 GB, Guest: 655.00 MB, Ballooned: 0.00
ОК	ESX Name	<b>⊙</b> 🕏 🔀	ESX Name	OK - SDIASYNADC1
ок	ESX Snapshots	<b>6</b> 🕏 🥦 ች	ESX Snapshots	OK - No snapshots found



#### Multisite

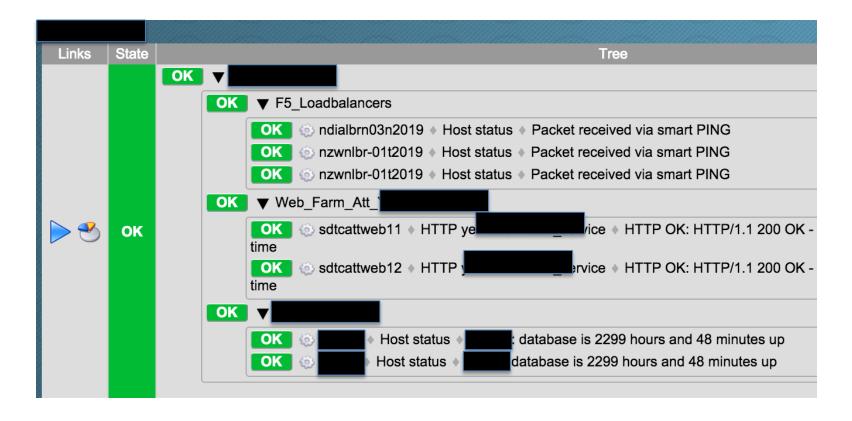
- All configuration in Web GUI
- Rule based with tag system
- Configure all distributed systems in 1 interface
- Nagvis and Mediawiki integrated



## **Business Aggregation**

Create an application with different hosts or

services.

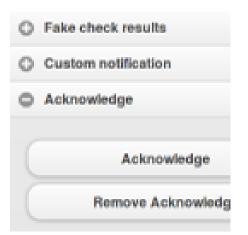


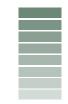


#### And more...

- Mobile website
- Flexible notifications
- Community driven product
- Scheduled reporting
- Custom dashboards



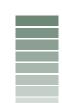




# Dynamic disk tresholds

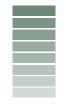
Large disks get higher tresholds

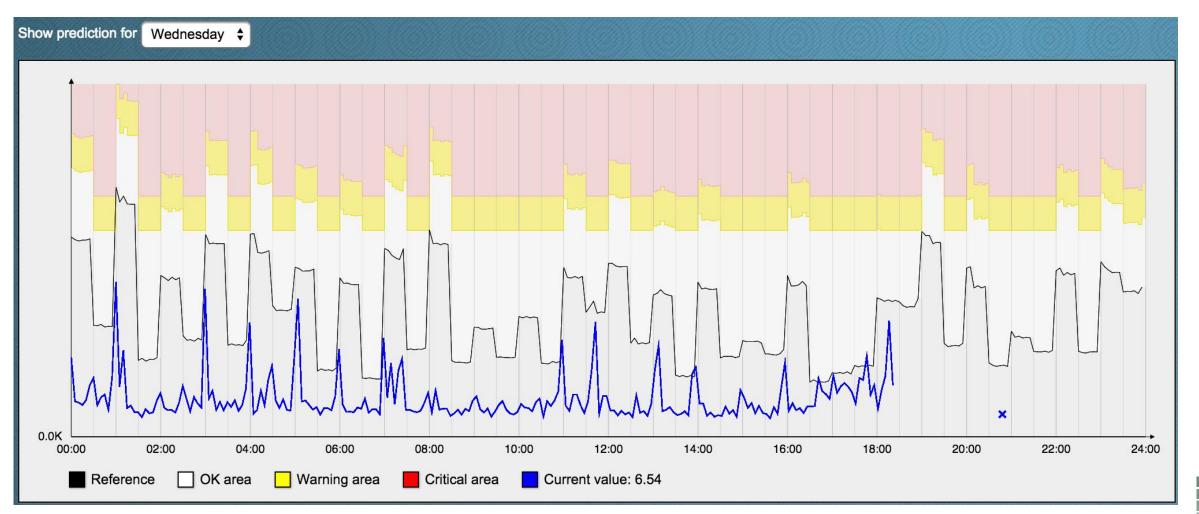
magic	5 GB	10 GB	20 GB	50 GB	100 GB	300 GB	800 GB
1.0	80%	80%	80%	80%	80%	80%	80%
0.9	77%	79%	80%	82%	83%	85%	86%
0.8	74%	77%	80%	83%	86%	88%	90%
0.7	70%	75%	80%	85%	88%	91%	93%
0.6	65%	74%	80%	86%	89%	93%	95%
0.5	60%	72%	80%	87%	91%	95%	97%



#### Predictive checks

- Disk usage Disk full in xx days or weeks
- CPU trending, last 90 days
- Memory trending, last 90 days

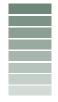






## Demo

Let's get a closer look!



# Questions

Questions?

