Check_MK Roadmap
Stuff we already work on
Check_MK Package Manager
Current way to work with MKPs:

OMD[mysite]:~ $ mkp install foo-1.2.mkp

Future way: all operations via WATO

- install, remove, list, show details
- create packages!
- Maybe even: access to Check_MK Exchange!
Automatic Agent Updates
Automatic Agent Updates

- Agent Bakery bakes agents
- Admin signs and publishes them
- Agents poll for updates...
- ...check the signature....
- ...and update themselves
- Will be available for Linux and Windows
And finally...
Hell...
has frozen over!
Check_MK supports IP v6 !!!!
• Hosts can have v4, v6 or both addresses
• Real dual-stack monitoring
• „Primary address“:
  • is used for accessing the agent
• „Secondary address“:
  • is monitored by extra PING service
• Works with Check_MK-Agent, SNMP, PING and some active checks
One second resolution for metrics
One-second RRD updates

- Linux and Windows agent get new plugin
- active updates of **some** crucial metrics:
  - CPU load, utilization
  - Windows performance counters
  - etc.
- Updates are done by agent via UDP
- New daemon on Check_MK receives these...
- ...and updates RRDs of **existing** services
Plans and ideas for...
...the future!
Configuration in MKPs
Imagine you could package:

• Event Console rule packs
• Collections of active checks
• Tuned global settings
• Predefined host tag groups

→ A monitoring template
Organized in layers:

- Factory Settings
- MKP Config package
- Local configuration
→ Configuration MKPs could be updated without damage in the local configuration
• New style of central configuration
• Without central Multisite!
• Interesting for loosely connected sites
• or very large setups
Ultrafast™ config generation
• cmk -0 or „Activate Changes“ can take a long time...
• Especially when you monitor many hosts
• Reason:
  • Configuration for CMC needs to be created
  • This is one big file
Possible solution:

- Split up into one file per folder
- After changes to a host just update that file
- ... and do this immediately
- shouldn't take too long
- → „Activate Changes“ would take no time
Setup with Distributed WATO

- After saving a change immediately replicate to according remote site

Global configuration changes

- Assumed to be < 5% of the cases
- Fall back to current behaviour
Managed Services Edition  
**CME**
Special Check_MK Edition for users that monitor in behalf of their customers

**Features:**

- Manage customers (German: Mandanten)
- Assign hosts, users, sites to customers
- Upload your own logo for the GUI
- Adjusted license and pricing
More flexible graphs
Current situation:

- graph templates are hard coded
- and can only show one service

Plan:

- interactive graph editor
- graphs spanning multiple services
More flexible graphs

Step 1
Interactive editing of graph templates

- Add/remove metrics from service
- Select MAX / MIN / AVERAGE
- Layout-style: LINE / AREA / STACK
- Computations (used = total - free)
- Derived scalars (90% percentile)
Customization similar to views:

- Each user can do own customizations
- Admin users can publish their templates
Step 2

Freeform graphs

- Use metrics from any host or service
- These are kind of global graphs
- Can be put into reports or dashboards
Step 3

Multi-Service-Graphs

1. Select multiple similar services (e.g. HTTP checks of hosts from a pool)
2. Klick on Graphs
3. Get all curves in one graph
Possible operations:

• Sum
• Stack (using different colors)
• Lines
• Average
Usages:

• Which of the servers has the worst response time?

• How grows the **combined** space of all selected file systems?

• Show switch port statistics for port 1+2 (in case of trunking)
Numeric access to historic data
Current situation:

- metric data is stored for years
- only access via time series graphs

Plan:

- derive scalar numbers...
- ... and show these in GUI tables
- ... also available for export via CSV / JSON
Example

• I have 150 ESX hosts
• Which of them are the least in use?

Solution

• Use service „CPU utilization“ from ESX-Monitoring
• Create column „Average over last month“
• Create view and sort by this column
Some Questions to the public
How much would you like to see....

- A Check_MK rack1 with more CPU, Mem, IO
- A small/cheap Check_MK Appliance for setups with many (hundreds or thousands) of sites
- Check_MK virt1 in Amazon-Cloud or similar clouds
- IPv6 Support in the Appliance
- Central Management of Check_MK Appliances
- Netflow support
The End

See you again next year!