Newest Developments in checkmk

CHECKMK CONFERENCE #5 - MUNICH, APRIL 29, 2019
Our development priorities for checkmk

- User Experience
- Cloud monitoring
- Container environments
- Dynamic environments
- Metrics & Visualization
- Monitoring base
- Seamless integrations
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility

Modern theme in 1.5
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility

Slightly improve modern theme
- Higher data density
- Better usability
Status quo

Maximum density

Der Master, heute

OK: Check_MK
OK: Check_MK Discovery
OK: Check_MK MWSW Inventory
OK: Found 32 inventory entries
OK: CPU load
OK: CPU utilization
OK: DLink IQ SUMMARY
OK: Filesystem /
OK: Filesystem /dev/sd0
CRIT: Filesystem /dev/sd0
CRIT: Filesystem /dev/sd0
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility

Additional dark theme

Still work in progress
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility

- Effective check parameters
- German user interface also in CRE #7178
- Searchable dropdown fields #7016
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility

- Improved time period management
  #6628
- New "Distributed Monitoring" page
  #7081
- Predefined conditions for rulesets
  #7333
- "omd cleanup"
  #6283
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility

Service discovery usability

#6930
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility

- Host and service labels
- Discovery of generic host labels #7336
User Experience

Where can labels come from?

- **WATO**
  - Set labels for hosts

- **WATO**
  - Set labels via Host/service rules

- **HW/SW inventory**
  - Discover for hosts
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility

- Host and service labels
- Discovery of generic host labels #7336
- Discovery of AWS, Azure & Kubernetes labels
- Labels in Rule-Conditions
Where can you see labels?

- WATO: Hosts/service analysis sets
- HW/SW inventory tree
- Host/Service detail views
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility

Flexible rule conditions
User Experience

- Modernize the look & feel
- Simplify interactions
- Increase flexibility

- “Customizable” login page #6426
- Customizable snapins #6555
- Customizable tactical overview and host matrix #6556
Cloud monitoring

Monitoring cloud services
Introduction to Check_MK’s monitoring of key AWS and Azure services

Moritz Kiemer
Tuesday
11:00 a.m. – 11:45 a.m.
Container environments

Monitoring Docker and Kubernetes
Introduction to Check_MK’s monitoring of Docker and Kubernetes environments
Tom Bärwinkel
Monday
12:20 p.m. – 01:00 p.m.

Running Check_MK in a Docker container
Best-practices and troubleshooting for running Check_MK in container environments
Ronny Bruska & myself
Monday
03:00 p.m. – 03:45 p.m.
Dynamic environments

Monitoring of highly dynamic environments
How Check_MK will handle the very dynamic nature of containers, and other dynamic things

Tom Bärwinkel
Monday
11:45 a.m. – 12:20 p.m.
Metrics & Visualization

- Improve graphing usability
- Integrate with Grafana
- Aggregate metrics
Metrics & Visualization

- Improve graphing usability
- Integrate with Grafana
- Aggregate metrics
Metrics & Visualization

- Improve graphing usability
- Integrate with Grafana
- Aggregate metrics

Integrating Grafana & Check_MK
Use cases and how to integrate the two popular tools

Douglas Mauro
Tuesday
08:30 a.m. – 09:20 a.m.
Metrics & Visualization

- Improve graphing usability
- Integrate with Grafana
- Aggregate metrics

Unfortunately not going to happen for 1.6, but...

you can also do it with Grafana

Large Scale Storage Monitoring at VW Group @ 02:30pm
Monitoring base

- Enable IT ops analysis
- Improve performance
- Maintain high security
- Improve existing functionality
- Improve stability
- Extend monitoring scope
Monitoring base

- Enable IT ops analysis
- Improve performance
- Maintain high security
- Improve existing functionality
- Improve stability
- Extend monitoring scope

New BI visualizations – finally ...

A snapshot of the new visualization options for the Business Intelligence

Mathias Kettner

Monday
05:15 p.m. – 05:45 p.m.
Monitoring base

Enable IT ops analysis

- Improve performance
- Maintain high security
- Improve existing functionality
- Improve stability
- Extend monitoring scope

Capacity Management

Predictive planning of IT infrastructure demand with Check_MK

Dr. Óscar Nájera

Tuesday
11:00 a.m. – 11:45 a.m.
Monitoring base

- Enable IT ops analysis
- Improve performance
- Maintain high security
- Improve existing functionality
- Improve stability
- Extend monitoring scope

- Faster CMC config generation
  #6702

- Distributed agent bakery
Monitoring base

- Enable IT ops analysis
- Improve performance
- Maintain high security
- Improve existing functionality
- Improve stability
- Extend monitoring scope

- Encrypted Livestatus #7017
- Comprehensive security audit #6516, #6565, #6566, #6567, #6568, #6609, #6610, #6611, #6612, #6613, #6614, #6615, #6618, #6619, #6620, #6621, #6622, #6709, #6710, #6711, #6774, #6786, #6787, #6788, #6846
Monitoring base

- Enable IT ops analysis
- Improve performance
- Maintain high security
- Improve existing functionality
- Improve stability
- Extend monitoring scope

- Connect to Livestatus via IPv6 #7018
- EC: Apply rules only on specific sites #6226
- Global config of HTTP proxies #6920
Monitoring base

- Enable IT ops analysis
- Improve performance
- Maintain high security
- Improve existing functionality
- Improve stability
- Extend monitoring scope

The new Windows agent
Introducing Windows Agent 2.0 - our brand new agent

Mathias Kettner
Monday
05:15 p.m. – 05:45 p.m.
Monitoring base

- Enable IT ops analysis
- Improve performance
- Maintain high security
- Improve existing functionality
- Improve stability
- Extend monitoring scope

- Major refactoring of code base
- Check_MK GUI as WSGI application #6096
- Unit tests, linter tools & CI
Monitoring base

- Enable IT ops analysis
- Improve performance
- Maintain high security
- Improve existing functionality
- Improve stability
- Extend monitoring scope

- 176 minor to medium feature changes in Checks & Agents
- 376 minor to medium fixes in Checks & Agents
Monitoring base

- Enable IT ops analysis
- Improve performance
- Maintain high security
- Improve existing functionality
- Improve stability

- Extend monitoring scope

- Elasticsearch Monitoring
  #7202

- New SAP Hana monitoring
  #7100

- Extended Oracle monitoring
  #5966, #6146, #6480, #6482, #6492, #6753, #6764, #7004, #7006, #7095, #7107, #7109, #7120, #7365, #7375, #7397, #7454

- Family of checks for Cisco UCS, Enviromux, DELL management boards
Integrations

- Integrate into workflows
- Make data available
Integrations

- Integrate into workflows
- Make data available

The i-doit & checkmk integration
The new interface between i-doit’s CMDB and checkmk

Benjamin Heisig
Monday
04:00 p.m. – 04:45 p.m.
Integrations

- Integrate into workflows
- Make data available

- slack
  #6639

- servicenow
  #7201

- JIRA
  #7195

- Opsgenie
  #7406

- VictorOps
  #6648

- pagerduty
  #6649
Integrations

- Integrate into workflows
- Make data available

- Service state to Graphite/InfluxDB
  #6580
- New Web-API Calls
  #5809, #6240, #6689, #6966, #7073, #7341
These are the major features for checkmk 1.6

> 1000 werks

- Many more smaller features
- Look for details on our werks pages
- The major features will be presented the next 2 days
Thank you!  

tribe29 GmbH  
Kellerstraße 29  
81667 München  
Deutschland  

Web — tribe29.com  
E-Mail — mail@tribe29.com