



HART

***Ha**rdware **r**esource management **t**ool*

SWT2 - Zwischenpräsentation, 14.12.2018

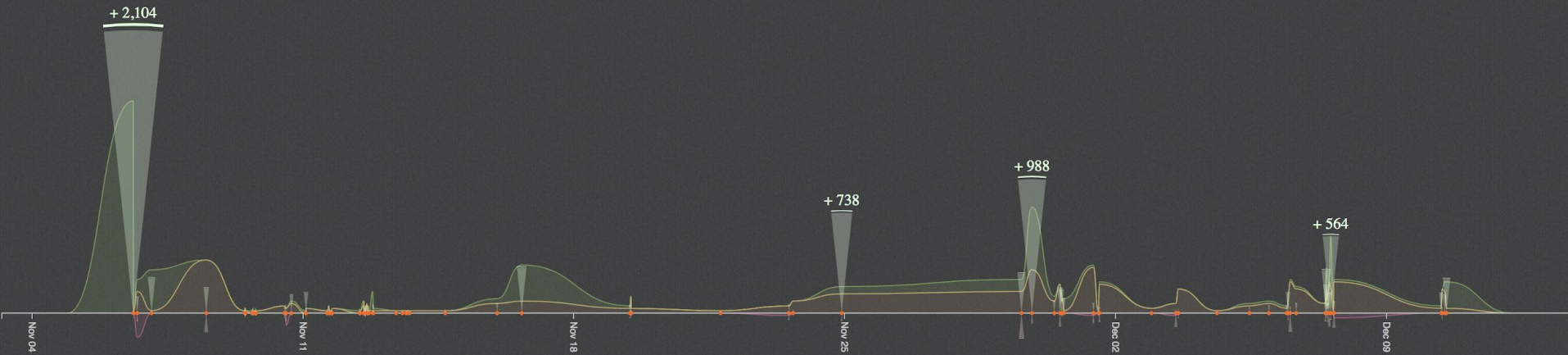


Vision

Wir wollen das Management von VMs und Servern des EPIC-Lehrstuhls zentralisiert und einfach möglich machen.

HARTE Fakten

- Im letzten Monat:
 - 233 Commits
 - 31 Autoren
- 100% Open Source
- über 80% Testabdeckung
- A-Rating bei Code[Climate|factor|beat]
- Continuous Integration & Deployment



Wir wollen das Management von VMs und Servern des EPIC-Lehrstuhls
zentralisiert und einfach möglich machen.

Nutzerverwaltung


- Login mit HPI-oAuth
- Rollenzuweisung
- Benachrichtigungen

VM/Server Verwaltung

- VMs anfragen
- VMs archivieren
- Berechtigungen für VM/Server

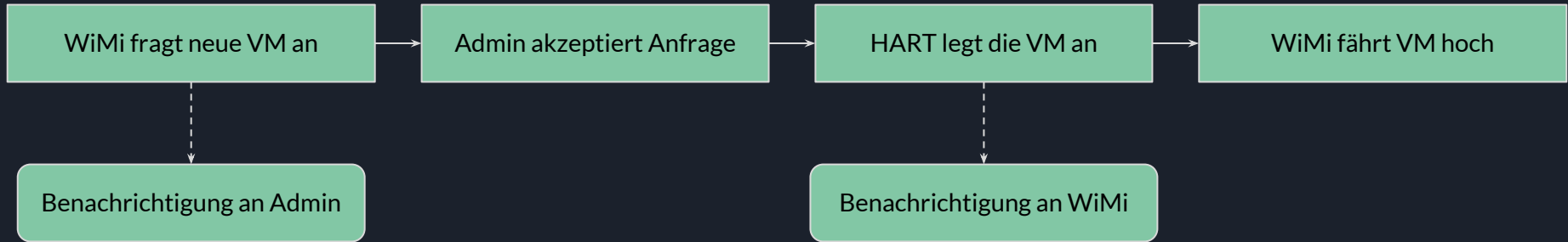
VM/Server Monitoring

- Status von VMs anzeigen
- Aktives Monitoring
- Auslastungsstatistiken



Prozesse

Anfrage einer neuen VM





Dashboard

VMs

test POs		Details	Delete
Test VM Björn	2018-12-13 06:05:14 UTC	Details	Delete
JaschasTestVM1	2018-12-09 06:05:17 UTC	Details	Delete

Notifications

You don't have any notifications at the moment.

Hosts

ibmesx13.eaalab.hpi.uni-potsdam.de	connected	<ul style="list-style-type: none">test POsTest VM Björn
ibmesx12.eaalab.hpi.uni-potsdam.de	connected	
ibmesx14.eaalab.hpi.uni-potsdam.de	connected	<ul style="list-style-type: none">JaschasTestVM1



Virtual Machines

This is the overview page for all currently existing VMs

VM Name	Running Since	Power Options
test POs		Start
Test VM Björn	2018-12-13 06:05:14 UTC	Shutdown
JaschasTestVM1	2018-12-09 06:05:17 UTC	Shutdown

[Requests](#)

[New](#)

More Information

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About HART

HART allows to Request and Manage VM's provided by the HPI Admin team



Requests

Name	Cpu-Cores	MB RAM	MB Storage	Operating system	Comment	Status
test POs	6	8000	250000	Ubuntu 18.04	Asap	accepted

[New Request](#)

More Information

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New Request

Name

CPU cores

RAM in MB

Storage in MB

Assigned Users:

- user@user.de ▲
- admin@admin.de
- wimi@wimi.de

Users with sudo rights:

- user@user.de ▲
- admin@admin.de
- wimi@wimi.de



New Request

Name

Presentation VM

CPU cores

8

RAM in MB

16000

Storage in MB

128000

Assigned Users:

user@user.de
admin@admin.de
wimi@wimi.de

Users with sudo rights:

user@user.de
admin@admin.de
wimi@wimi.de

wimi@wimi.de

Users with sudo rights:

user@user.de
admin@admin.de
wimi@wimi.de

Operating System

Ubuntu 18.04

Comment

This is required for today's Customer Demo!

Create Request

[Back](#)

More Information

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Request Information

Name:	Presentation VM
Cpu cores:	8
MB RAM:	16000
MB Storage:	128000
Operating system:	Ubuntu 18.04
Comment:	This is required for today's Customer Demo!
Status:	pending

Users:

- admin@admin.de

Users with sudo rights:

- admin@admin.de

Accept

Reject

Reject



Create a new Virtual Machine

Name

Cpu

Ram

Capacity

Create VM



More Information

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Virtual Machines

This is the overview page for all currently existing VMs

connected not connected [Filter](#)

VM Name	Running Since	Power Options
Presentation VM		Start
test POs		Start
Test VM Björn	2018-12-13 06:05:14 UTC	Shutdown
JaschasTestVM1	2018-12-09 06:05:17 UTC	Shutdown

[Requests](#)

[New](#)

More Information

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About HART

HART allows to Request and Manage VM's provided by the HPI Admin team



Presentation VM

offline

Manage



RAM
0.0 / 16 GB



CPU
8 cores



HDD
0 / 128 GB

Host: [ibmesx13.eaalab.hpi.uni-potsdam.de](#)

Hardware

IP Address

Heartbeat Status gray

Users

Ad Min

More Information

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About HART

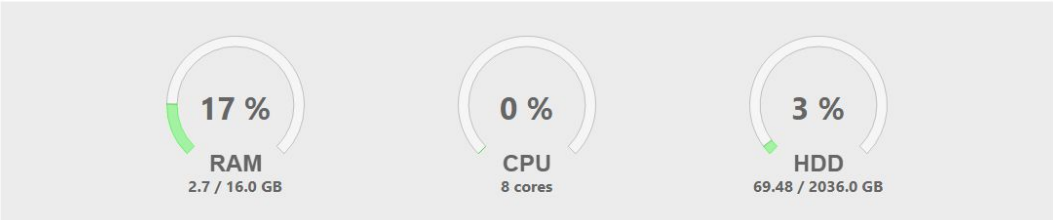
HART allows to Request and Manage VM's provided by the HPI Admin team



ibmesx13.eaalab.hpi.uni-potsdam.de

online for 22 days, 8 hours, 30 minutes, 20 seconds

Manage ▾



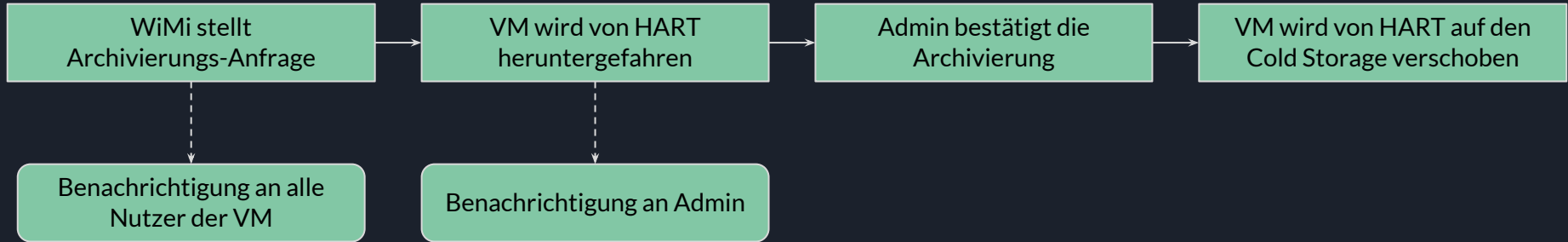
Hardware

Vendor	IBM
Model	IBM eServer BladeCenter HS21 -[7995G6G]-
Power State	poweredOn
OS	vmnix-x86 (VMware ESXi 6.5.0 build-8935087)
CPU Model	Intel(R) Xeon(R) CPU E5450 @ 3.00GHz

Virtual Machines

- [Presentation VM](#)
- [test POs](#)
- [Test VM Björn](#)

Zukünftige Prozesse



Weitere noch zu implementierende Prozesse:

- Reaktivieren von archivierten VMs
- Eintragen von Servern
- Rechtemanagement mittels Puppet-Scripts
- ...

Roadmap - Zwischenstand

Dezember 2018

Januar 2019

Februar 2019



Archivierung und Reaktivierung von VMs

Statistiken, Monitoring

Zeitslotreservierungen

Anlegen von Servern im System

Rechtemanagement auf VMs/Server mittels Puppet-Scripts

Import von bestehenden VMs

Anlegen von Projekten im System