

#### Opening and Registration

Looking beyond the Buzz of Edge Computing

# Thomas Michael

# Bohnert

ZHAW School of Engineering 7HAW

### Sacha Dubois

Red Hat

09:45 ·

Accelerating your journey to the Hybrid Cloud with Ansible Tower

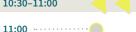
# The journey to a hybrid cloud can be daunting and interminable. Lack of slow down the undertaking. To remain agile, enterprises must be able to

standardization and automatization, laborious interacting with different standardize and use existing provisioning systems and processes for both teams and departments together with rigid and inflexible processes can on-premise and public cloud workloads.

Edge Computing is currently considered to be the next evolutionary di-technical propositions and potential obstacles, not only from a technical

rection of Cloud Computing. In this talk we'll discuss motivation, drivers, perspective but also from a business and regulatory view point.

#### 10:30-11:00



### Alexandre Menezes

# Microsoft

# pplications modernization journey – The four R's You are an architect or TDM and you decide that is time to modernize gies. With that, several technical question will come up specially around

Break

in how to start Re-build existing applications to use modern approaches like microserdo? Is lift-and-shift really all there is for existing applications?

This session is a high-level look around the options for adopting cloud your existing applications and take advantage from the Cloud technolo- technologies for your existing applications. You will learn about the four main cloud adoption paths (Re-host, Refactor, Rearchitect and Rebuild) by discussing and comparing them.

You can take home a better understanding about different existing approvices or learning new programing languages and frameworks might not aches, advantages and pitfalls which may help you to take decisions in be an option due constrains like time, cost, complexity, etc. So what to how to move forward with application modernization in your organiza-

#### 11:30 .....

Valentina Lanz Diso AG

#### CI/CD in the Cloud

Continuous Delivery, Continuous Deployment, Continuous Integration: ideas a reality? Which parts of this process can be implemented in a taking Agile development to the next level has been a topic in Software Cloud environment? Engineering for a while now. What does it actually take to make these

#### 12:15 .....

**Tobias Brunner** VSHN AG

#### CNCF - What happened in one year

space of Cloud Native technologies. The referent Tobias Brunner will give for the cloud.

Last year Tobias Brunner presented an introduction into the Cloud Native an update and present what happened, what new projects are part of the Computing Foundation. During the last year there happened a lot in the CNCF and where they can help in running and developing applications

#### 12:30 .....

Marcus Holthaus

#### Playing the vault

yourself must take care in configuring these instructions. Also there must in a secure direction.

Keeping secrets to yourself is inherently difficult when putting them onto be automatic authentication of those requesting the secrets, and there someone else's computer. So the cloud providers and their technology needs to be some interaction with on-site and local solutions. This talk need to be instructed in detail on how to handle those secrets, and you gives an overview - not too technical, but sufficiently to get you started

#### 11.00

Benedikt Trefzer Cirrax GmbH

#### How and why we deploy OpenStack virtual environments

Hörsaal 1

Auditorium

Auditorium

Auditorium

Auditorium

the the underlying operating system. Benedikt Trefzer will explain how all environments is discussed. these interact and the dependency troubles you should expect upgra-

This talk is about releases, upgrades and dependencies of OpenStack and ding an OpenStack cloud. As a solution the packaging of OpenStack virtu-

#### 11:30 ...

Josef Spillner **ZHAW Service** Prototyping Lab

#### Cloudware and Beyond: Engineering Methods and Tools

Hörsaal 1

can unfold their full potential. Indeed, modern software is not just delivered as a service in isolation from its development. Software turns into

Software-as-a-Service (SaaS) development has made great progress the cloudware instead which is inherently deliverable in high quality. The talk rough powerful open platforms upon which cloud-native architectures gives an overview about current cloudware technologies and also looks at what to expect from future post-cloud systems.

#### 12:15 ....

Florian Kammermann Swisscom

## **Kubernetes**

Hörsaal 1

In this talk you will learn the architecture of Kubernetes, how to create a cluster from scratch and how to create/manage resources in Kubernetes.

#### Workshop 1

#### Aufbau einer oVirt Infrastruktur mit anschliessendem Monitoring (Deutsch)

Markus Frei und Sandro Lang

13:55

rastruktur und gehen der Frage nach, woraum bei der Installation und der kurze Demo zu den wichtigsten Add-Ons und Features von Icinga. Konfiguration geachtet werden soll. Dazu werden auch die wichtigsten

Als Open Source Alternative zu VMWare und Microsoft hat sich oVirt in den Punkte beim Betrieb erläutert. Im zweiten Teil des Workshops bauen wir Linuxfabrik GmbH letzten Jahren als Cloud Management Software hervorgetan. In diesem mit Icinga eine Monitoring-Instanz auf um die erstellte Infrastruktur ent-Workshop zeigen wir die wichtigsten Schritte beim Aufbau einer oVirt-Inf- sprechend zu überwachen. Dazu gehören selbstverständlich auch eine

Lunch

12:45-13:45

..... 13.45 Robert Cornwell

Technologies

Huawei

#### Auditorium

#### Hyper-Scaling on Openstack with Open Source tooling:

In this presentation we will discuss Openstack as a Public Cloud Infraa HyperScale Grid Computing systems on Openstack using open source their Business units. tools such as Terraform and Ansible. In this scenario it is a use case in the

A use case in deploying hyper-scale grid computing on open Telekom finance industry but applies to any industry that needs to deploy Grid Computing systems or HyperScale distributed systems. The use case is based on a European bank deploying Grid Computing to the cloud to structure, Open Source Tooling for Devops, and a use case for deploying meet regulatory requirements as well as improving their time to result to

> . 14:30 René Moser SWISS TXT

#### Auditorium

#### Ansible for all the clouds

makes your life easier while being minimal in nature. When interacting demo how it runs interacting with clouds. with clouds, it shines with a steep learning curve, shows it full power of

Ansible is one of the unique IT orchestration and configuration tools that simplicity. The presentation will start with basics and continuing with a

13.45 Franziska Bühler

POST CH AG

#### Hörsaal 1

#### Web Application Firewall - Friend of your DevOps Chain?

vOps methodology. But what if a WAF is involved in the DevOps process very early and not just at its end?

The problem is that when a WAF is added to production, the impact on the deployment pipeline with fast feedback loops.

A Web Application Firewall may cause fear that doesn't fit into the De- the application is tested too late, because application developers get feedback extremely late and the WAF could probably break the application. The referent will show a way how to integrate a WAF and its testing into

> ... 14:15 Michael P. Hofmann 7iSolutions AG

#### Hörsaal 1

#### Privacy & GDPR: What do I need to do?

On May 25, 2018, the new comprehensive EU General Data Protection Regives an introduction to the topic, summarizes the essentials require-

gulation (GDPR) comes into force. This affects basically all companies in ments, analyzes the risks and makes a proposal for an efficient imple-Switzerland as well as their processes and applications. The presentation mentation. the deployment pipeline with fast feedback loops.

> ..... 14:15 Attilla de Groot umulus Networks

#### Hörsaal 1

#### If (network == server) { magic happens }

used in data centers. Automating a server infrastructure with DevOps acts like a server, can you do the same?

Cumulus Linux is a NOS that runs on 50+ different hardware platforms tools and a CI/CD environment is common today. What if your network

Slaven Begic

#### Workshop 2

### Microservice Architectures with Springboot and Netflix Cloud

ctional requirements for solution architectures, like highavailability, mentioned non-functional requirements. scalability, resilience, performance, ... and in the second part we are go- Concretely there will be following technologies used: Netflix Eureka Sering to do design and develop a demo microservice application, based ver, Netflix Zuul Server, Springboot for Application instances.

In the first part of the workshop we are going to discuss about non-fun- on OpenSource Frameworks Springboot and NetflixCloud, considering

Break



15:15-15:45

**GmbH** 

· 16:30

#### · 15:45 Niklaus Hofer stepping stone

## Benchmarking CEPH's BlueStore

With last Year's Luminous release, CEPH stabilized the BlueStore ba- mance. Before deploying our new OpenStack cloud, we benchmarked ckend. With BlueStore, CEPH does no longer rely on XFS for storing data the new BlueStore backend and compared it to classic CEPH setups. to disk. This boasts various benefits, chief among which is better perfor-

Jens-Christian Fischer SWITCH

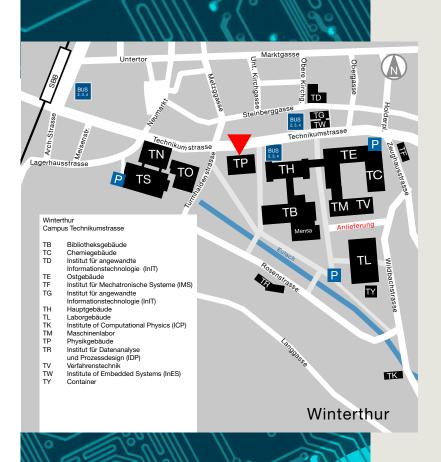
#### Running a cloud – the missing pieces

Academic community for the past 4 years. While building, running and Issues like reporting, billing, managing access, delegating administrative maintaining a large infrastructure already is challenging, users expect rights or simply the user interface for end users make each need their much more than "just" running VMs. We describe the additional prob- own bespoke solutions.

SWITCH has been running an OpenStack/Ceph based cloud for the Swiss lems that running a commercial cloud entails - and how we solve them.

End of event - Apéro rich







#### Veranstaltungsort

ZHAW School of Engineering Winterthur, Campus Technikumstrasse, Gebäude TP

#### Anmeldung

Anmeldung bis 28. Mai 2018 hier: https://opencloudday.ch/registration/

#### Veranstalter

**CH Open** – Verein zur Förderung von Open Source Software und offenen Standards in der Schweiz: www.ch-open.ch

Forschungsstelle Digitale Nachhaltigkeit an der Universität Bern www.digitale-nachhaltigkeit.unibe.ch/



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