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Open Cloud Day 2018

www.opencloudday.ch/

DATUM Mittwoch, 30. Mai 2018

ZEIT 09:00 bis 17:30 Uhr

ORT ZHAW in Winterthur

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

08:30 Opening and Registration

09:00 Thomas Michael Bohnert ZHAW School of Engineering ZHAW Looking beyond the Buzz of Edge Computing Edge Computing is currently considered to be the next evolutionary direction of Cloud Computing. In this talk we'll discuss motivation, drivers, technical propositions and potential obstacles, not only from a technical perspective but also from a business and regulatory view point.

09:45 Sacha Dubois Red Hat Accelerating your journey to the Hybrid Cloud with Ansible Tower The journey to a hybrid cloud can be daunting and interminable. Lack of standardization and automatization, laborious interacting with different teams and departments together with rigid and inflexible processes can slow down the undertaking. To remain agile, enterprises must be able to standardize and use existing provisioning systems and processes for both on-premise and public cloud workloads.

10:30-11:00 Break

11:00 Alexandre Menezes Microsoft Auditorium Applications modernization journey - The four R's You are an architect or TDM and you decide that is time to modernize your existing applications and take advantage from the Cloud technologies. With that, several technical question will come up specially around in how to start. This session is a high-level look around the options for adopting cloud 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.

11:30 Valentina Lanz Diso AG Auditorium CI/CD in the Cloud Continuous Delivery, Continuous Deployment, Continuous Integration: taking Agile development to the next level has been a topic in Software Engineering for a while now. What does it actually take to make these ideas a reality? Which parts of this process can be implemented in a Cloud environment?

12:15 Tobias Brunner VSHN AG Auditorium CNCF - What happened in one year Last year Tobias Brunner presented an introduction into the Cloud Native Computing Foundation. During the last year there happened a lot in the space of Cloud Native technologies. The referent Tobias Brunner will give an update and present what happened, what new projects are part of the CNCF and where they can help in running and developing applications for the cloud.

12:30 Marcus Holthaus IMSEC Auditorium Playing the vault Keeping secrets to yourself is inherently difficult when putting them onto someone else's computer. So the cloud providers and their technology need to be instructed in detail on how to handle those secrets, and you yourself must take care in configuring these instructions. Also there must be automatic authentication of those requesting the secrets, and there needs to be some interaction with on-site and local solutions. This talk gives an overview - not too technical, but sufficiently to get you started in a secure direction.

11:00 Benedikt Trefzer Cirrax GmbH Hörsaal 1 How and why we deploy OpenStack virtual environments This talk is about releases, upgrades and dependencies of OpenStack and the the underlying operating system. Benedikt Trefzer will explain how these interact and the dependency troubles you should expect upgrading an OpenStack cloud. As a solution the packaging of OpenStack virtual environments is discussed.

11:30 Josef Spillner ZHAW Service Prototyping Lab Hörsaal 1 Cloudware and Beyond: Engineering Methods and Tools Software-as-a-Service (SaaS) development has made great progress through powerful open platforms upon which cloud-native architectures can unfold their full potential. Indeed, modern software is not just delivered as a service in isolation from its development. Software turns into cloudware instead which is inherently deliverable in high quality. The talk gives an overview about current cloudware technologies and also looks at what to expect from future post-cloud systems.

12:15 Florian Kammermann Swisscom Hörsaal 1 Kubernetes 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)

Als Open Source Alternative zu VMware und Microsoft hat sich oVirt in den letzten Jahren als Cloud Management Software hervorgetan. In diesem Workshop zeigen wir die wichtigsten Schritte beim Aufbau einer oVirt-Infrastruktur und gehen der Frage nach, worauf bei der Installation und der Konfiguration geachtet werden soll. Dazu werden auch die wichtigsten Punkte beim Betrieb erläutert. Im zweiten Teil des Workshops bauen wir mit Icinga eine Monitoring-Instanz auf um die erstellte Infrastruktur entsprechend zu überwachen. Dazu gehören selbstverständlich auch eine kurze Demo zu den wichtigsten Add-Ons und Features von Icinga.

13:55 Markus Frei und Sandro Lang Linuxfabrik GmbH

Lunch 12:45-13:45

Auditorium Hyper-Scaling on Openstack with Open Source tooling:

A use case in deploying hyper-scale grid computing on open Telekom cloud In this presentation we will discuss Openstack as a Public Cloud Infrastructure, Open Source Tooling for Devops, and a use case for deploying a HyperScale Grid Computing systems on Openstack using open source tools such as Terraform and Ansible. In this scenario it is a use case in the 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 meet regulatory requirements as well as improving their time to result to their Business units.

13:45 Robert Cornwell Huawei Technologies

Auditorium Ansible for all the clouds

Ansible is one of the unique IT orchestration and configuration tools that makes your life easier while being minimal in nature. When interacting with clouds, it shines with a steep learning curve, shows it full power of simplicity. The presentation will start with basics and continuing with a demo how it runs interacting with clouds.

14:30 René Moser SWISS TXT

Hörsaal 1 Web Application Firewall - Friend of your DevOps Chain?

A Web Application Firewall may cause fear that doesn't fit into the DevOps 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 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 the deployment pipeline with fast feedback loops.

13:45 Franziska Bühler POST CH AG

Hörsaal 1 Privacy & GDPR: What do I need to do?

On May 25, 2018, the new comprehensive EU General Data Protection Regulation (GDPR) comes into force. This affects basically all companies in Switzerland as well as their processes and applications. The presentation gives an introduction to the topic, summarizes the essentials requirements, analyzes the risks and makes a proposal for an efficient implementation. the deployment pipeline with fast feedback loops.

14:15 Michael P. Hofmann TiSolutions AG

Hörsaal 1 If (network == server) { magic happens }

Cumulus Linux is a NOS that runs on 50+ different hardware platforms used in data centers. Automating a server infrastructure with DevOps tools and a CI/CD environment is common today. What if your network acts like a server, can you do the same?

14:15 Attilla de Groot Cumulus Networks

Workshop 2 Microservice Architectures with Springboot and Netflix Cloud

In the first part of the workshop we are going to discuss about non-functional requirements for solution architectures, like highavailability, scalability, resilience, performance, ... and in the second part we are going to do design and develop a demo microservice application, based on OpenSource Frameworks Springboot and NetflixCloud, considering mentioned non-functional requirements. Concretely there will be following technologies used: Netflix Eureka Server, Netflix Zuul Server, Springboot for Application instances.

13:55 Slaven Begic

Break 15:15-15:45

Benchmarking CEPH's BlueStore

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

15:45 Niklaus Hofer stepping stone GmbH

Running a cloud - the missing pieces

SWITCH has been running an OpenStack/Ceph based cloud for the Swiss Academic community for the past 4 years. While building, running and maintaining a large infrastructure already is challenging, users expect much more than „just“ running VMs. We describe the additional problems that running a commercial cloud entails - and how we solve them. Issues like reporting, billing, managing access, delegating administrative rights or simply the user interface for end users make each need their own bespoke solutions.

16:30 Jens-Christian Fischer SWITCH

End of event - Apéro rich 17:15



Zürich University of Applied Sciences



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

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