

Openshift Anwendertreffen

Introduction to Openshift

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Speakers



Marta Blaszczyk

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Agenda

→ Let's talk about music! - Evolution of

software deployment and architecture

- \rightarrow What is Openshift?
- → Demo





Who likes music?







Monoliths as a one-man orchestra





Modular monolith





Example of a modular monolith

















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Microservices as a small band





Microservices





Example of Microservices







Percussion family





Containers as an orchestra



Example of containers

What is a Container?

1https://flexcontainer.com/wp-content/uploads/2020/06/26x22-Bread-Basket-600x358.png https://www.padok.fr/hubfs/Images/Blog/container-docker.png

a container is the smallest compute unit

containers are created from container images

container images are stored in an image registry

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(() QUAY

Why do we use container images and containers?

Packaging and Isolation

Easier management

Security

Kubernetes as a conductor + an orchestra

containers are wrapped in pods which are units of deployment and management

apps can talk to each other via services

Remember him?

Scaling

Self-Healing

What is Kubernetes?

An open source orchestration system for managing containerized workloads across a cluster of nodes.

#project

So what is Openshift?

Reality of enterprise IT environments

Mixed infrastructure environments, diverse app portfolios, & limited automation

Infrastructure

Reality of enterprise IT environments

Mixed infrastructure environments, diverse app portfolios, & limited automation

Red Hat customers have common needs & challenges

Hybrid cloud infrastructure

Build the foundation for the future, while managing costs to speed progress

Cloud-native development Accelerate application development, innovation, & delivery

IT automation & management

Automate infrastructure & applications so you can do more without sacrificing stability

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Should our customer DIY the app platform, or focus on building the best app and customer experience?

What is OpenShift?

An enterprise-ready Kubernetes container platform with full-stack automated operations to manage hybrid cloud and multicloud deployments.

#product

OPENSHIFT

Red Hat OpenShift & more

Openshift Example

Openshift

Red Hat OpenShift is for every innovator

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Ready for IT operators

- Automate processes.
 Reduce complexity.
- Operate more securely from end to end

Empowering developers

- Code fast with familiar tools.
- Rapidly deliver without roadblocks.

Proven for business leaders

- Choose a platform to power business today.
- Create a cloud strategy for the future.

Next steps:

https://developers.redhat.com/developer-sandbox/activities

Learn containers, Kubernetes, and OpenShift in your browser

Start exploring in the OpenShift Sandbox for free

Try Red Hat's products and technologies without setup or configuration.

Get started in the sandbox

Thank you

Red Hat is the world's leading provider of enterprise open source software solutions. Award-winning support, training, and consulting services make Red Hat a trusted adviser to the Fortune 500.

