

susecondigital ²⁰

SUSE Cloud Application Platform vs. Competition

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Intro

Cloudical At A Glance

Cloud-Native Services

- Managed Cloud Services
- Migration Services
- Development Services
- Knowledge Service

Where to find us

- <https://www.cloudical.io>

Where we work

- EMEA
- The Americas
- APAC-regions

What we are

- SUSE DACH “Best new Partner 2019”
- SUSE Solutions Partner CaaS, CAP and Enterprise Storage

The Competition



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What We Compare

1. Idea and target audience
2. CI/CD and Platform-as-a-Service
3. Support Models
4. Containers and Kubernetes
5. Installation
6. Build- and Deployment-Processes



Idea and Target Audience

Idea and Target Audience

Cloud Foundry

- True Platform-as-a-Service
- Open-Source
- Community-driven

Cloud-Vendors

- CI/CD with traces of PaaS
- Closed Source

OpenShift

- CI/CD marketed as PaaS
- Open-Source

Cloud Application Platform

- Enterprise Cloud Foundry Distribution
- True Platform-as-a-Service
- Based on Open-Source Cloud Foundry



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CI/CD and Platform-as-a- Service

Good To Know: CI/CD vs. Platform-as-a-Service

CI/CD

- Create your own build-pipeline
- Manual control of pipeline
- Enable continuous build- and deployment processes
- Centered around deployment

Platform-as-a-Service

- CI/CD-functionalities
- Automated pipelines
- Platform-abstraction
- More automation in deployment and operations

CI/CD and Platform-as-a-Service

Cloud Foundry

- Build-Packs
- Automated and opinionated build
- PaaS-capabilities

Cloud-Vendors

- Self-defined build-pipelines
- Typically CI/CD-capabilities only

OpenShift

- Self-defined build-pipelines
- CI/CD-capabilities

Cloud Application Platform

- Quality-assured Build-Packs
- Automated and opinionated build
- PaaS-capabilities



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Support Models

Support Models

Cloud Foundry

- Community Support
- No production-grade Support

Cloud-Vendors

- Commercial Support according to Service- and Support-Level Agreement
- Production-grade Support as add-on

OpenShift

- Commercial Support according to Service- and Support Level Agreement
- Production-grade Support

Cloud Application Platform

- Commercial Support according to Service- and Support Level Agreement
- Production-grade Support



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Containers and Kubernetes

Good To Know: Containers and Kubernetes

Containers

- Lightweight abstraction
- Process virtualization
- Less overhead
- Well-known environment to application

Kubernetes

- Orchestrates Containers
- Removes complexities in deployment and operations
- Abstraction and High-Availability
- Build-in security

Container and Kubernetes-Support

Cloud Foundry

- Latest iteration runs on Kubernetes
- Older versions: Diego Scheduler

Cloud-Vendors

- Kubernetes- and Container-Support per Build-Pipelines
- Vendor-specific Kubernetes-distros are supported

OpenShift

- Kubernetes-Distribution
- HELM-Deployments built in
- Jenkins can create Containers

Cloud Application Platform

- Runs natively on Kubernetes
- HELM-Deployments built in
- Container-Creation / -Support



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Installation

Installation

Cloud Foundry

- BOSH Lite
- BOSH
- Complicated ☹️

Cloud-Vendors

- Provisioning via portal

OpenShift

- oc-Install
- Bundled with OpenShift

Cloud Application Platform

- Containerized
- HELM-charts
- Simple install on SUSE CaaSP (and K8S)



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Build- and Deployment- Processes

Build-Processes

Cloud Foundry

- Automated detection of language
- Manifest-file for customization
- Community Build Packs

Cloud-Vendors

- Build- and Docker-Files
- Manually defined pipelines
- Manifests required

OpenShift

- Manually defined build-pipelines
- Extensive and complicated

Cloud Application Platform

- Automated detection of language
- Manifest-file for customization
- SUSE and Community Build Packs



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Deployment Options

Cloud Foundry

- Application binaries
- Docker-images

Cloud-Vendors

- Application binaries
- Docker-images

OpenShift

- Docker-images / Pods
- HELM-charts

Cloud Application Platform

- Application binaries
- Docker-images
- HELM-charts



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Deployment Tools

Cloud Foundry

- cf push

Cloud-Vendors

- kubectl
- Vendor dashboard

OpenShift

- kubectl
- OpenShift dashboard

Cloud Application Platform

- cf push
- Stratos dashboard



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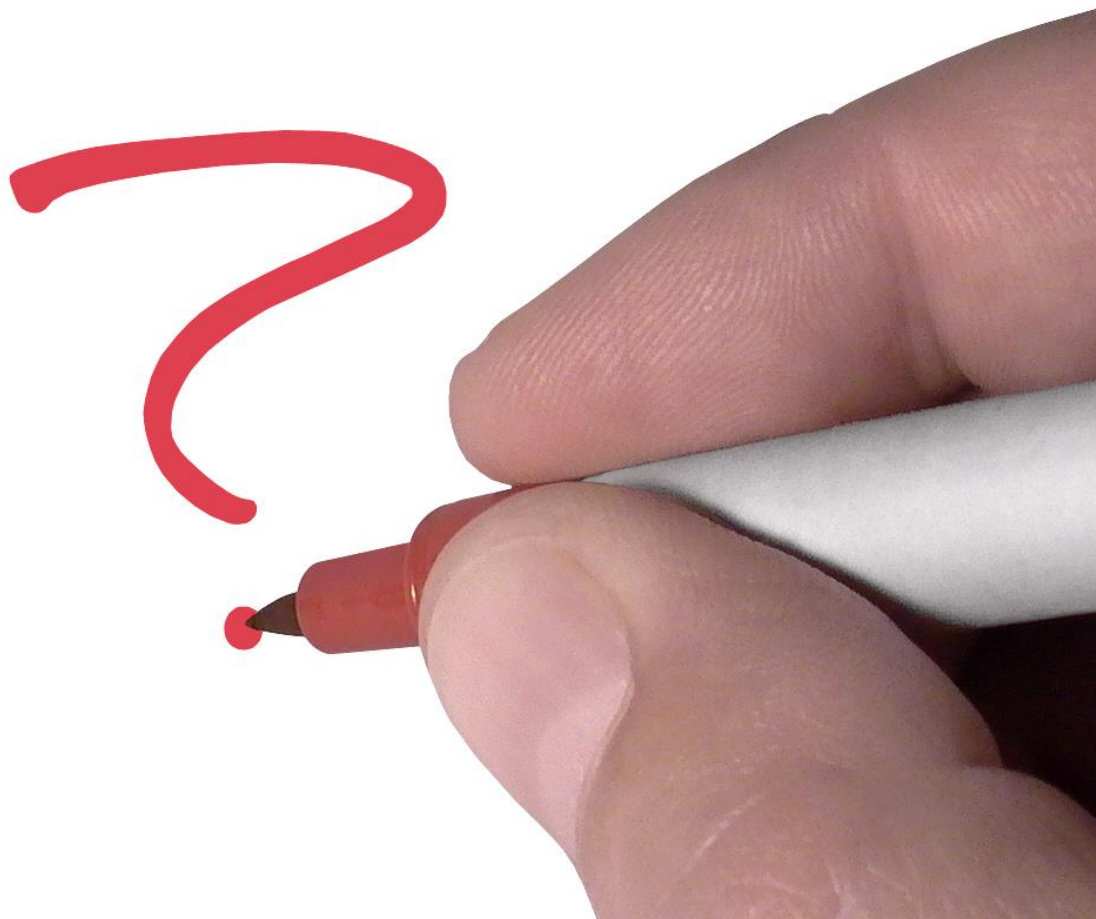


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And The Results Are...

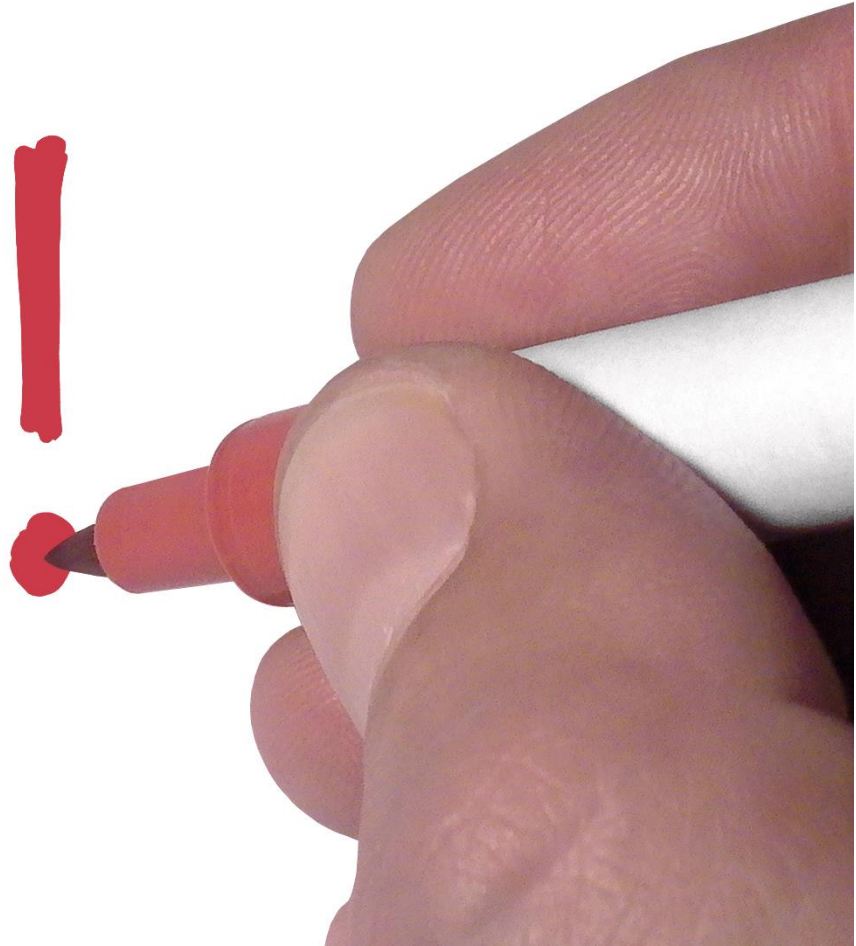


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Thank You!

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