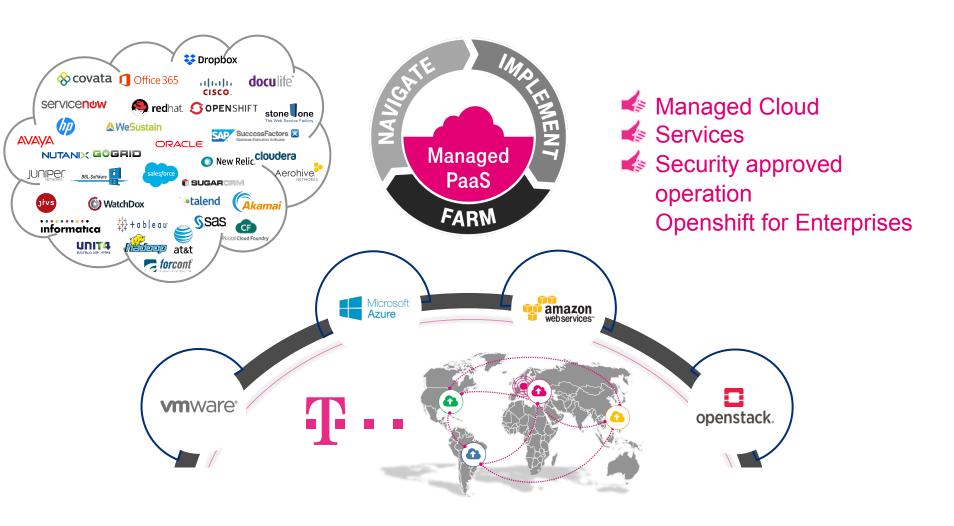
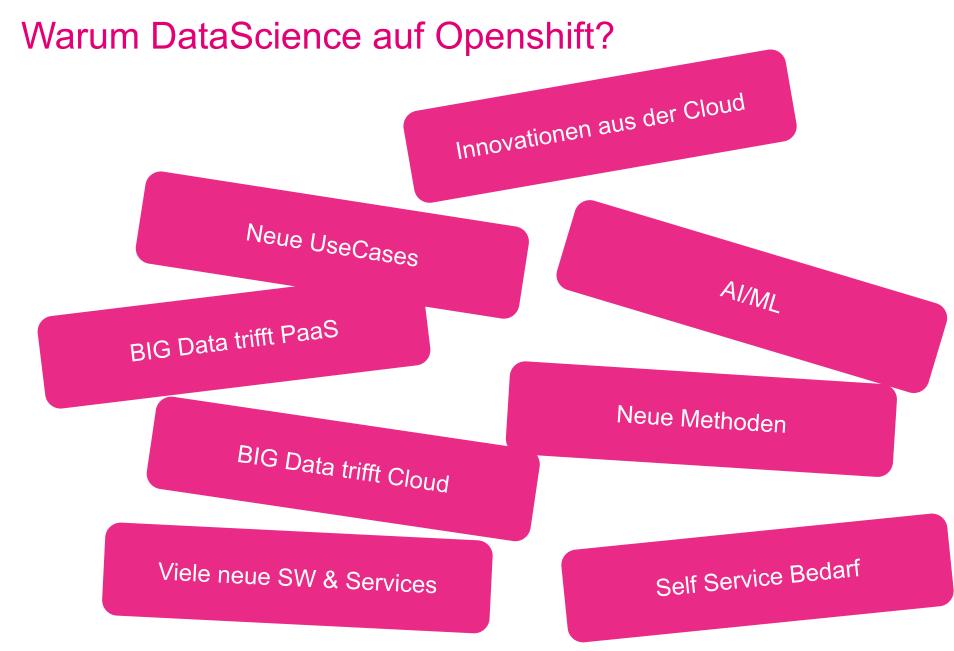
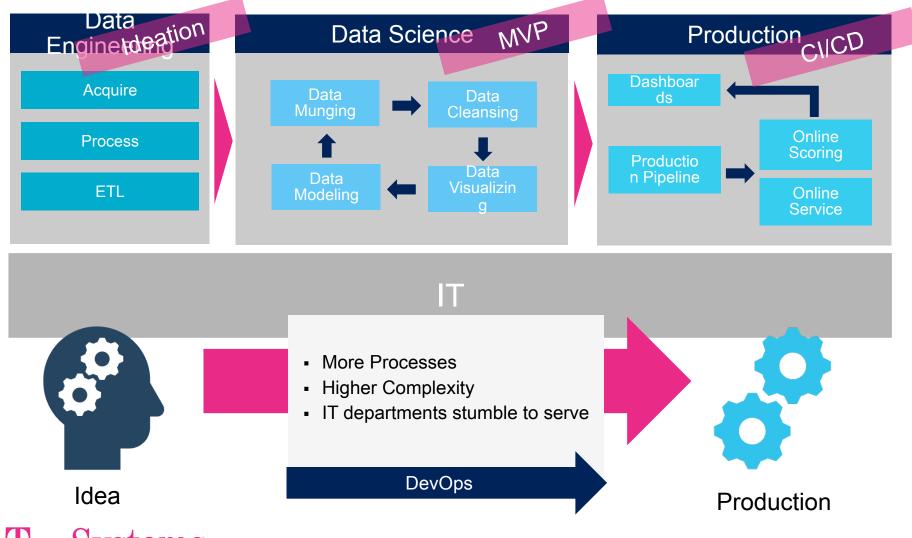


Digitization with T-Systems





Data Science - DevOps From data to product



Data Science DevOps – not Admin! The pain points





- Provision of environments takes forever
- Compatibility problems

- Provision of data access takes time
- Connection to data sources is cumbersome





- Hardware resources on desktops limited
- Models can only be trained and tested on samples
- Popular frameworks are not parallelized.

- Language and version conflicts
- Sharing results takes extra effort





Data Science DEVOPS

What else Would be nice?

Dockerization in the cloud



Sandboxing
Try new ideas
without destroying
anything

PoC
Develop your PoC
agile, at fast pace in
the cloud

Training
Train your team in the cloud on new ML frameworks

Locality
Run analyses in the cloud where your data is located

Ad-hoc Analysis

Set up quickly an

environment with all

tools

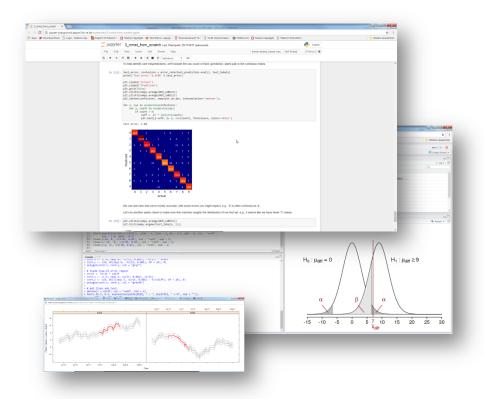
CI/CD Work in **parallel** and **continuously** on project **modules**



Presenting Appagile's Data science Workstation

be fast, be agile, at scale

- Quick and easy self-service
- Dedicated Data Science Engineer
- Working with AppAgile's Small Volume Hadoop cluster
- R, Python and Scala in multiple versions
- Common machine learning frameworks
- Visualization via notebooks, markdown and R Shiny Server
- Available on OTC, vCloud, and Microsoft Azure
- From sample to big data









HOW Fits BIG Data in Cloud?

Data Science Workstation Analytic Tools

From Anjuboro"

Data Lake – One Namespace

SMALL Volume

Cloud
Most flexible
For **GB** of Data

Hadoop@Docker

BIG Volume

Bare Metal for **Big TB** and Performace

Cloud **Small TB** / Flexible

HUGE Volume

Custom
Combined
BareMetal / Cloud

PB++
Global/Distributed
Namespace

Too slow,

But easy to use, Flexible

Fixed cost / CAPEX

But optimized Price/ performance Complex

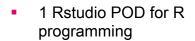
But highly distributed, perormant solution



Appagile Small volume hadoop data Science Setup Example

- Connect from DSWS via Livy Server to Spark
- **Execute Spark Jobs from** RStudio, Jupyter or R Shiny Server





- 1 Jupyter POD for Python **Programming**
- 1 R Shiny POD for publishing and sharing results



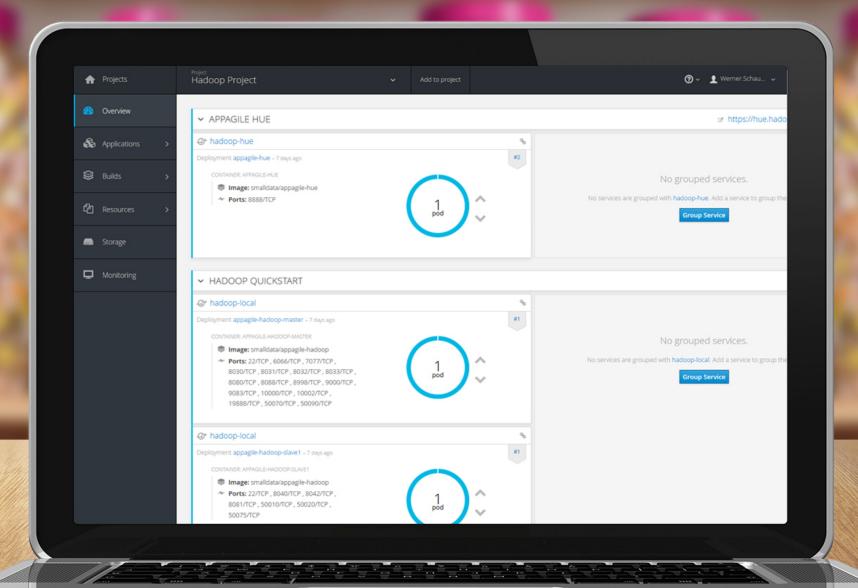
- 2 Hadoop Name Node PODs
- 3 Hadoop Data Nodes PODs
- MySQL POD for metadata
- Hue POD for HDFS management

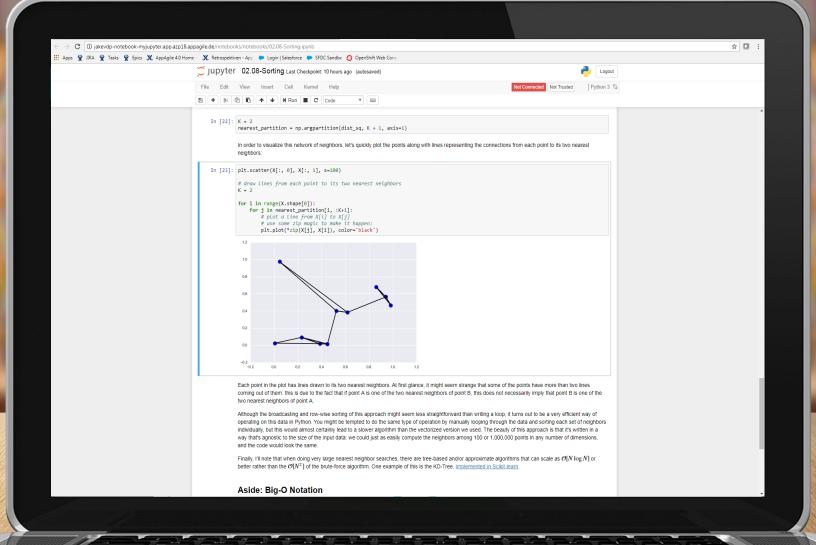
Persistent Storage

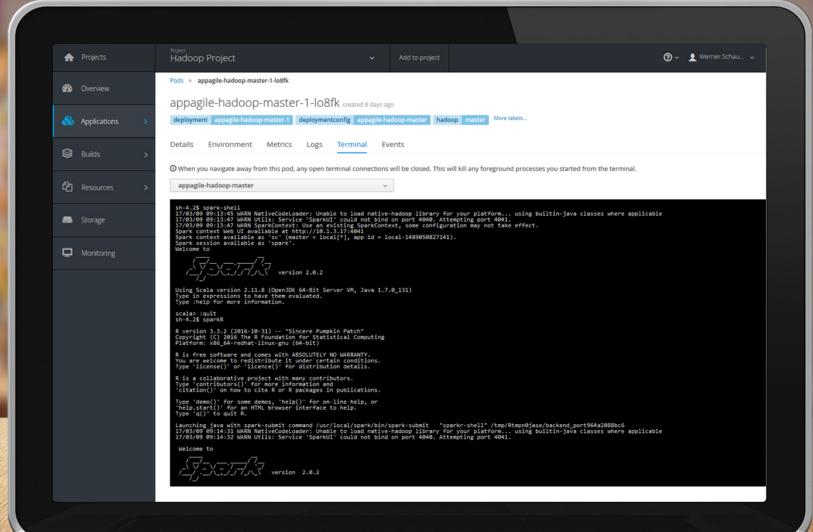
Infrastructure: Private vCloud / Public vCloud / OTC / Microsoft Azure

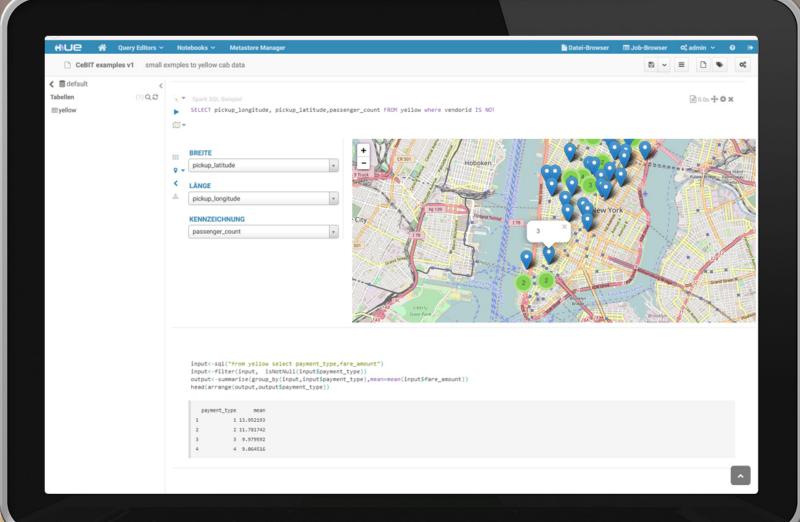
Some Screens

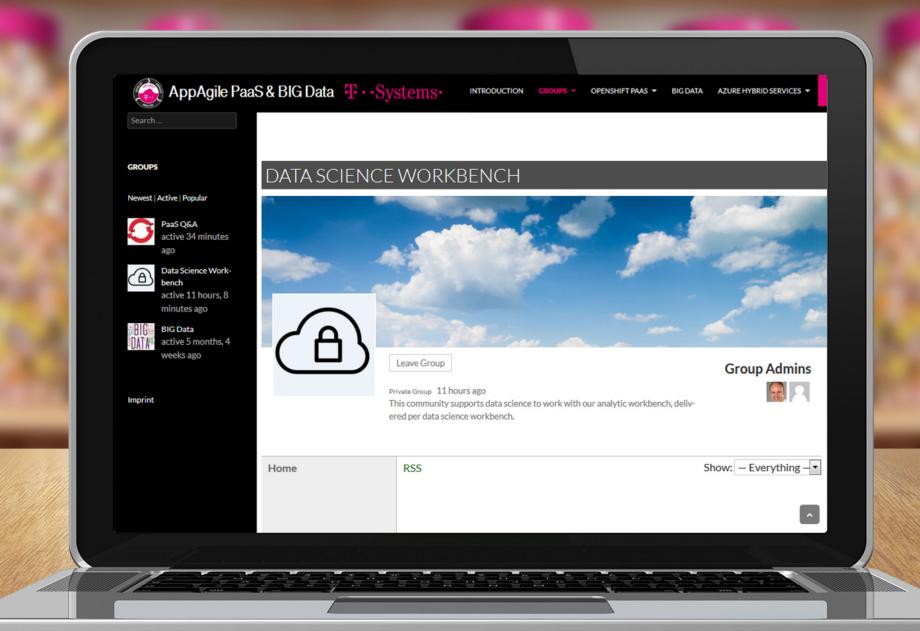
T · · Systems ·











Community - AppAgile.IO



meetup

Entded



PaaS & BIG Data Online Meetup

Meetup Gruppe gründen

PRO

AppAgile Online Meetup - 1 Gruppe

Ort

San Francisco, CA

Mitalieder

65

Organisatoren
Rafael Knuth

Du bist Mitglied ∨

À

Unsere Gruppe

Meetups

Mitglieder

Fotos

Diskussionen

Mehr

Nächstes Meetup

Alle anzeigei

26 APR Donnerstag, 26. April 2018, 09:00

OpenShift, Kubernetes & Docker: PaaS for Highly Regulated, Large Enterprises



Veranstaltet von Rafael Knuth

With this session, we are kicking off a series of Online Meetups targeted at DevOps teams within large, highly regulated corporations. We are excited to share our learnings and expertise across various industries such as automotive, manufacturing, logistics and telecommunications. That said, we will take a look under the hood of an enterprise grade PaaS, which is agnostic to virtually any programming language, framework or database an...



Teilnehmen



Benötigt einen Veranstaltungsort

Appagile data science workstation What's in the Package:

Data Science Engineer

- For named users
- Dedicated to DS support
- Building of DS libraries
- In charge of DS community
- DS Q&A (Best Practise)

Analytics Services – Data Science Workstation



DS

Engineer

Ready-to-use workstation for

DS self-service

Predefined data and analytic modules

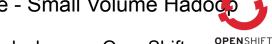


Container **Images**

Data Science Community



Middleware - Small Volume Hado



- Hadoop in dockers on OpenShift
- Horizontally scalable on demand
- Free assignment of capacities per node
- On public and private cloud
- Compatible to big data solution



Container Repository



Data Science Workstation:

For named user

Small Volume:

Unmanaged -Free

