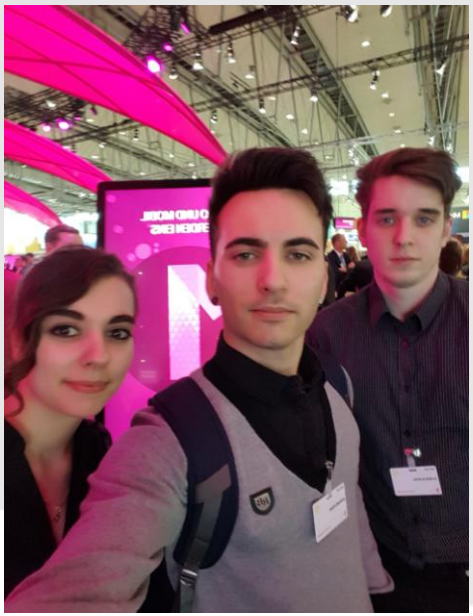
„CLOUD KINDERGARTEN“



Apprentices starting with

openstack™
CLOUD SOFTWARE

AGENDA

1. Introduction
   - 1.1 Who Are We?
   - 1.2 Our Workflow
2. TelekomCLOUD + OpenStack
   - 2.1 Refcard Overview
   - 2.2 Our Deployment
3. OpenStack In Practice
   - 3.1 CI / CD in Git
   - 3.2 Video „Creating a tenant with OpenStack“
4. Q & A

1. INTRODUCTION

1.1 WHO ARE WE? – MENTOR

Person

- Name : Frank Kloeker
- From : Berlin

Education

- 27 years of experience in Operations
- 10 years Examiner on Chamber of Commerce and Industry

Today

- Applicationmanagement for Cloud hosting platform
- personal point of contact for Apprentices
- Company : Deutsche Telekom AG
- Business Unit : Business Applications & Cloud Services

1. Introduction
2. TelekomCLOUD + OpenStack
3. OpenStack In Practice
4. Q & A

1.1 WHO ARE WE ? – APPRENTICE

Person

- Name : Adriano Perri
- Age : 23
- From : Berlin

Education

- Abitur
- studied 2 semester geoecology
- Apprenticeship until 2018

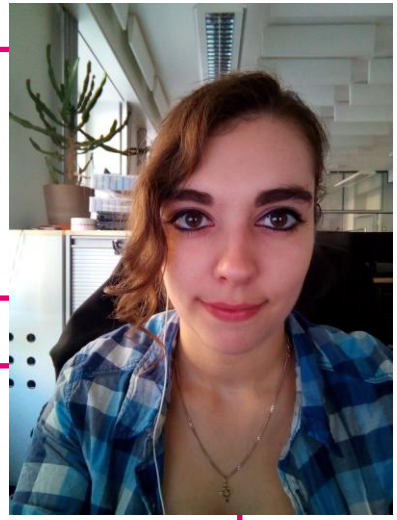
Today

- Vocation : management assistant in IT systems
- Company : Deutsche Telekom AG
- Business Unit : Business Applications & Cloud Services

1.1 WHO ARE WE ? – STUDENT

Person

- Name : Janika Schäfer
- Age : 21
- From : Berlin



Education

- Vocation : IT systems technician
- with Abitur
- finished 2015

Today

- studying : bachelor of engineering in communication & media computer science
- Company : Deutsche Telekom AG
- Business Unit : Business Applications & Cloud Services

1.1 WHO ARE WE ? – APPRENTICE

Person

- Name : Oliver Klippel
- Age : 23
- From : Berlin

Education

- Abitur
- 1 semester computer science & 1 semester media computer science
- Apprenticeship until 2018

Today

- Vocation : IT specialist for systemintegration
- Company : Deutsche Telekom AG
- Business Unit : Business Applications & Cloud Services

1.2 OUR WORKFLOW – A. PERRI

4 Create Refcard

- writing down (structured)
- comply with the corporate design
- use supporting illustrations

3 Documentation

- gather information unfiltered
- screen information
- organize them

2 Conception

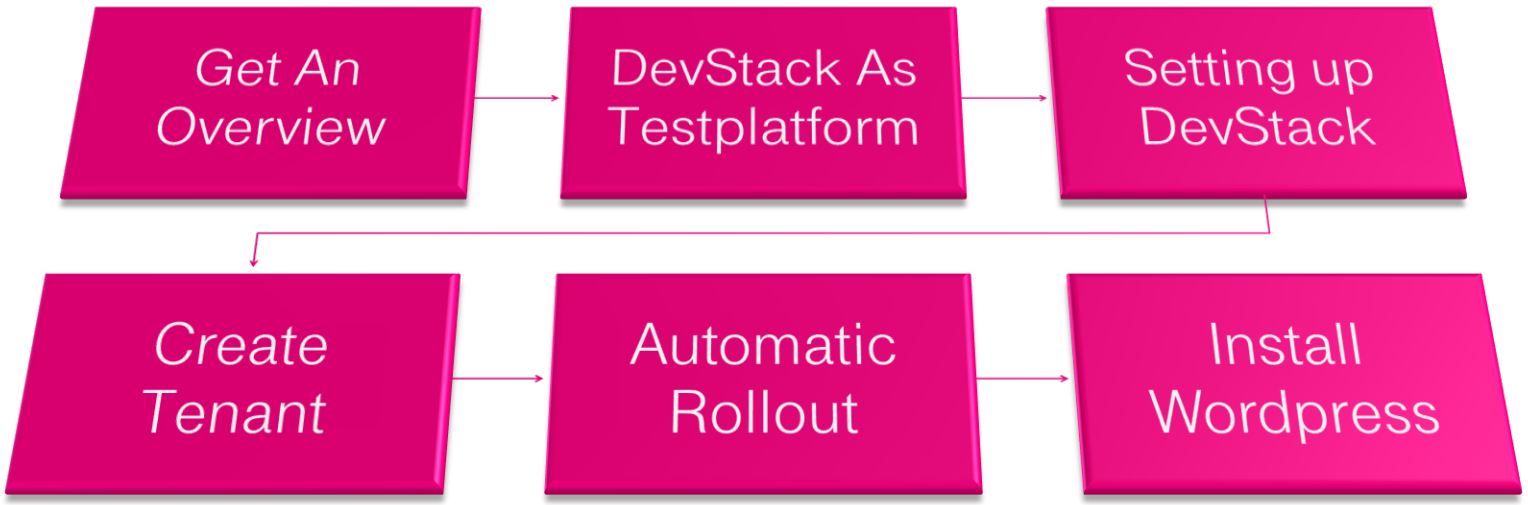
- what is important ?
- what is asked for ?
- time management

1 Get an Overview

- understand the task/topic
- clear up questions
- get inspired by other refcards

1. Introduction | 2. TelekomCLOUD + OpenStack | 3. OpenStack In Practice | 4. Q & A

1.2 OUR WORKFLOW - J. SCHÄFER/O. KLIPPEL



1.2 OUR WORKFLOW

- self-management
- tools to use
- find solutions
- discover talents

OUR EXPERIENCES

- how to get on a demanding topic
- explore new thematic
- understand relations

1. Introduction | 2. TelekomCLOUD + OpenStack | 3. OpenStack In Practice | 4. Q & A

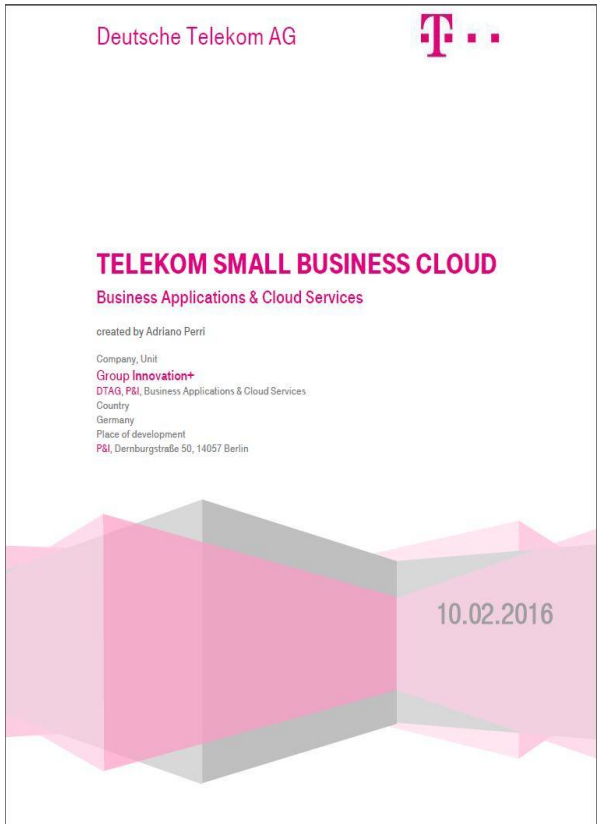
2. TELEKOMCLOUD + OPENSTACK

2.1 REFCARD – OVERVIEW

Introduction
- DevOps goals

OpenStack
- Features
- Software Overview
- Command lines
- Key Terms

TelekomCLOUD
- Deployment



Picture: Refcard Telekom SMB Cloud

1. Introduction | 2. TelekomCLOUD + OpenStack | 3. OpenStack In Practice | 4. Q & A

2.2 OUR DEPLOYMENT – SERVICES WE USE

Service Name	Function
Nova (Compute)	Virtual Machine Management
Neutron (Networking)	Network Management
Cinder (Block Storage)	Storage Resource Management
Keystone (Identity Service)	Identity Management
Glance (Image Service)	Image Management
RabbitMQ (Message Oriented Middleware)	Communication Management
Razor (Bare-Metal Provisioning)	Process of Installing an Operating System
Ceph S3 (Object Storage)	Storage Resource Management

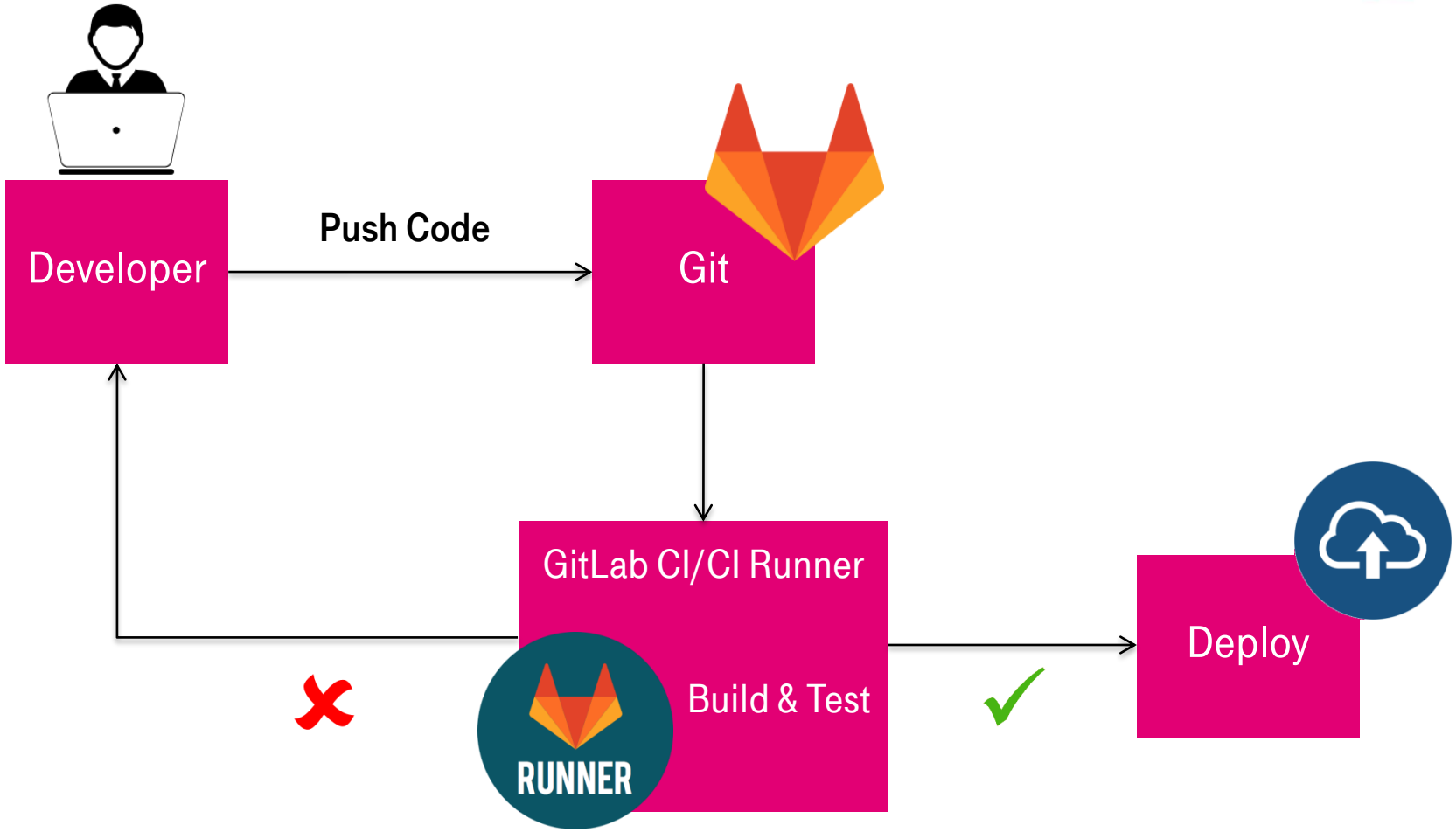
2.2 OUR DEPLOYMENT – DATACENTER

- brand new datacenter Biere near Magdeburg
- largest cloud datacenter in germany
- 40.000 m² area
- high security through complex security systems
- 12 emergency power generators
- high availability

➡ we give the resources you need !

3. OPENSTACK IN PRACTICE

3.1 OPENSTACK IN PRACTICE – CI/CD IN GIT



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3.2 OPENSTACK IN PRACTICE – VIDEO

Cloud Kindergarten – Creating a tenant with OpenStack

THANK YOU FOR YOUR ATTENTION !!

SOURCES

Informations

- https://www.openstack.org/
- https://dzone.com/refcardz/getting-started-openstack-most
- http://cloud-computing-blog.eu/was-ist-jetzt-eigentlich-cloud-computing/
- Other Sources : AiolosSystemDescription.pdf; Telekom Small Business Cloud_Refcard for ISVs.pdf

Pictures

- http://www.ofekcloud.com/media/images/1e7b5ca3-8b2e-4e2e-9898-5df978f0218aimage14.jpeg (Slide #10 CC)
- http://www.all-stars.de/blog/wp-content/uploads/2014/04/planung.jpg (Slide #10 Planning)
- http://www.maclife.de/ratgeber/microsoft-office-ios-jetzt-icloud-unterstuetzung-10062588.html (Slide #10 Office Tools)
- http://yourdost.com/blog/2016/02/how-to-become-more-creative.html (Slide #10 Creative)
- http://www.embritas.lt/project/duomenu-apdorojimo-centras/?lang=de (Slide #14 Datacenter Biere)
- https://www.openstack.org/brand/openstack-logo/logo-download/ (Slide #10,#1 OpenStack Logo)
- https://cloud.telekom.de/ (Slide #14 TelekomCLOUD)
- https://gitlab.com/uploads/project/avatar/250833/runner_logo.png (Slide #17 Git Runner Logo)
- http://www.autotestingtools.com/devops (Slide #17 Deploy Logo)
- https://d30y9cdsu7xlg0.cloudfront.net/png/27703-200.png (Slide #17 Developer)
- https://gitlab.com/uploads/project/avatar/13083/gitlab-logo-square.png (Slide #17 GitLab Logo)
- http://copting.de/wp-content/uploads/kreuz-rot.png (Slide #17 cross)
- http://copting.de/wp-content/uploads/Haken-gr%C3%BCn-284x300.png (Slide #17 hook)
- https://de.pinterest.com/pin/556053885218068326/ (Slide #19 Background)

4. QUESTIONS & ANSWERS