„CLOUD KINDERGARTEN"

+

Apprentices starting with

AGENDA

1. INTRODUCTION

CLOUD KINDERGARTEN – 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 ?

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

1.1 WHO ARE WE ?

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

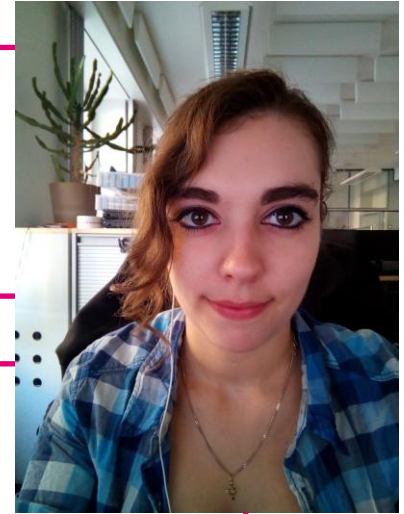1. Introduction | 2. TelekomCLOUD + OpenStack | 3. OpenStack In Practice | 4. Q & A

1.1 WHO ARE WE ?

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
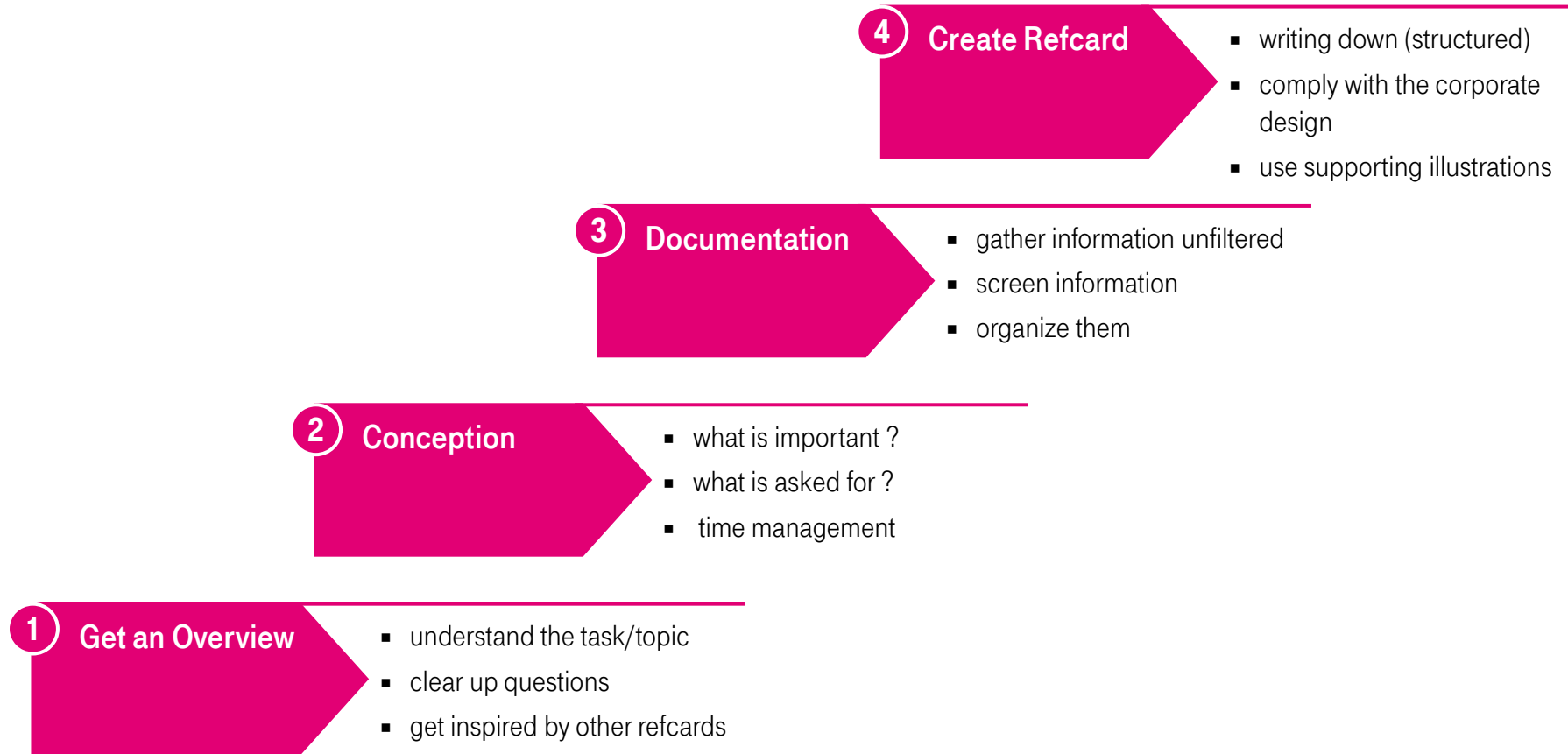- Business Unit : Business Applications & Cloud Services

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

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

```
Get An          →   DevStack As       →   Setting up
Overview            Testplatform          DevStack
```

```
Create          →   Automatic         →   Install
Tenant              Rollout               Wordpress
```

1.2 OUR WORKFLOW

OUR EXPERIENCES

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

- how to get on a demanding topic
- explore new thematic
- understand relations
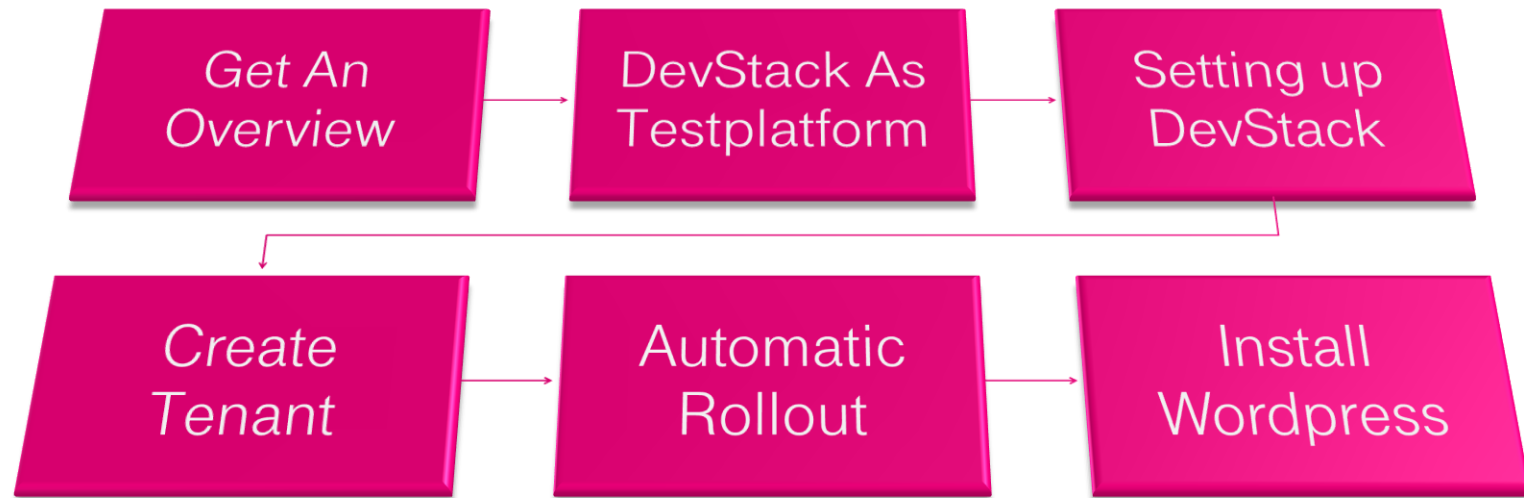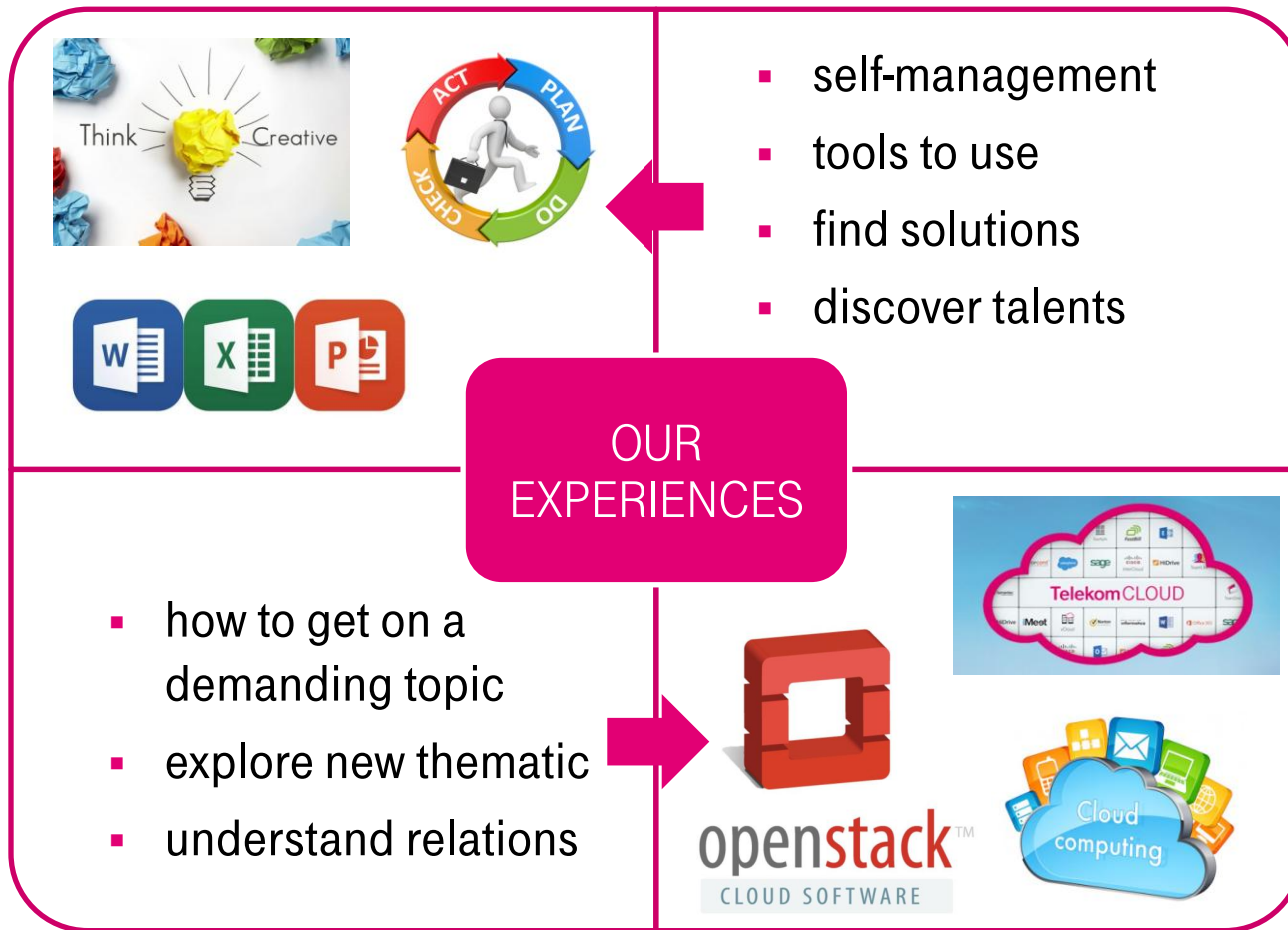
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2. TELEKOMCLOUD + OPENSTACK

2.1 REFCARD – OVERVIEW

Introduction
- DevOps goals

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

TelekomCLOUD
- Deployment

Deutsche Telekom AG

TELEKOM SMALL BUSINESS CLOUD

Business Applications & Cloud Services

created by Adriano Perri

Company, Unit
Group Innovation+
DTAG, P&I, Business Applications & Cloud Services
Country
Germany
Place of development
P&I, Dernburgstraße 50, 14057 Berlin

10.02.2016

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

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

2.3 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

Developer

Push Code

Git

GitLab CI/CI Runner

Build & Test

Deploy

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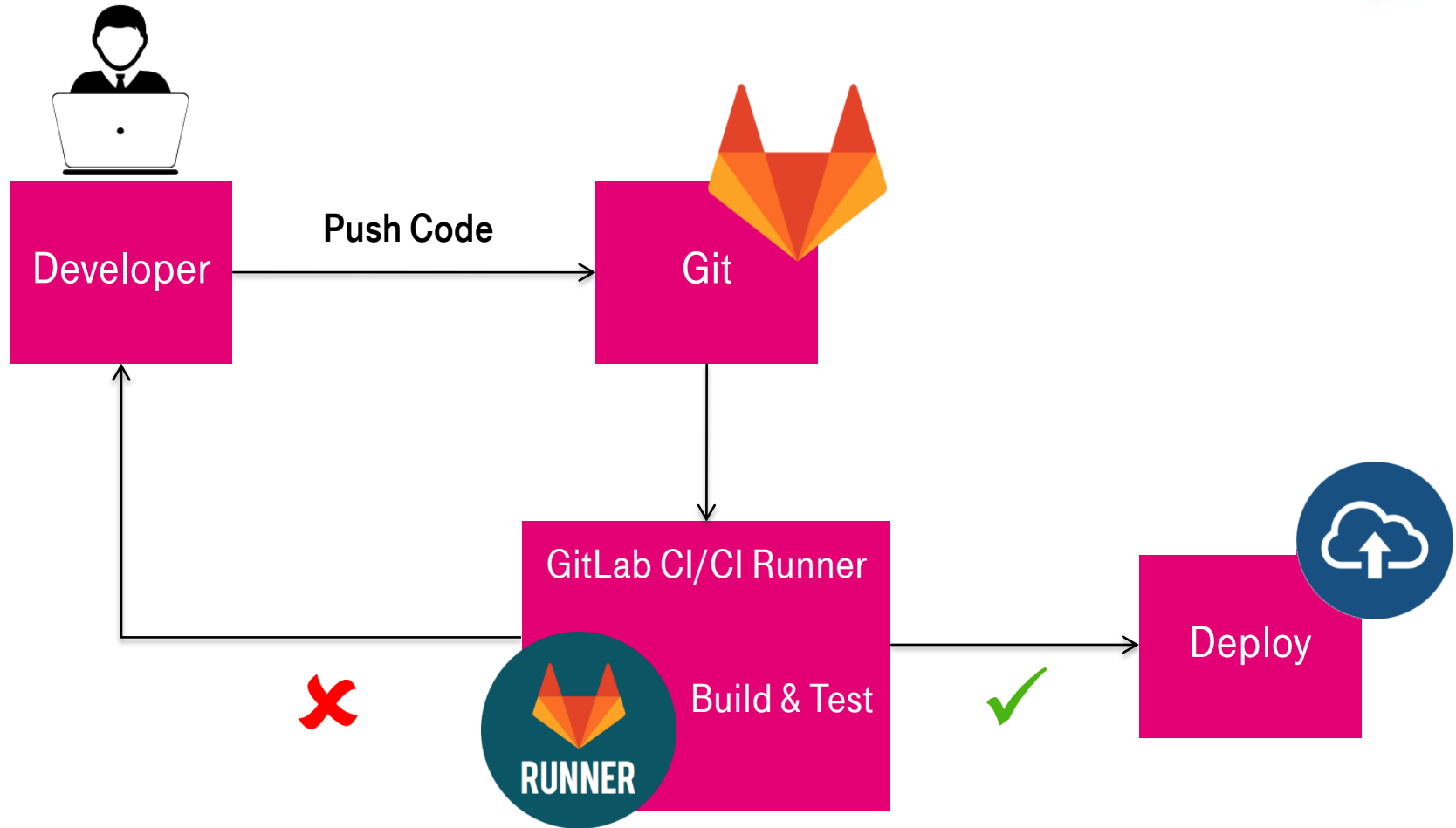**ERLEBEN, WAS VERBINDET.**   – OpenStack Summit 2016 –   A. Perri, J. Schäfer, O. Klippel / Cloud Kindergarten   16.09.2016   16

„CREATING A TENANT WITH OPENSTACK"

Video coming soon !

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

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