



Trends and Concepts in the Software Industry II

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Migrating to the Cloud
Introduction – 22nd October 2018

THE SITUATION

On-premise ERP Systems offer extensive possibilities for customization and extensibility

- Customers use these possibilities to differing extents and for different scenarios
- They range from simple UI adaptations like renaming to extensive programming of business logic

Migration to a cloud platform requires rethinking the customizations and extensions

- Some adaptations are already part of the Cloud Standard Software
- New scenarios for extensions are possible
- A migration is usually not 100% to the cloud



Image courtesy of "cookie_cutter" / FreeDigitalPhotos.net

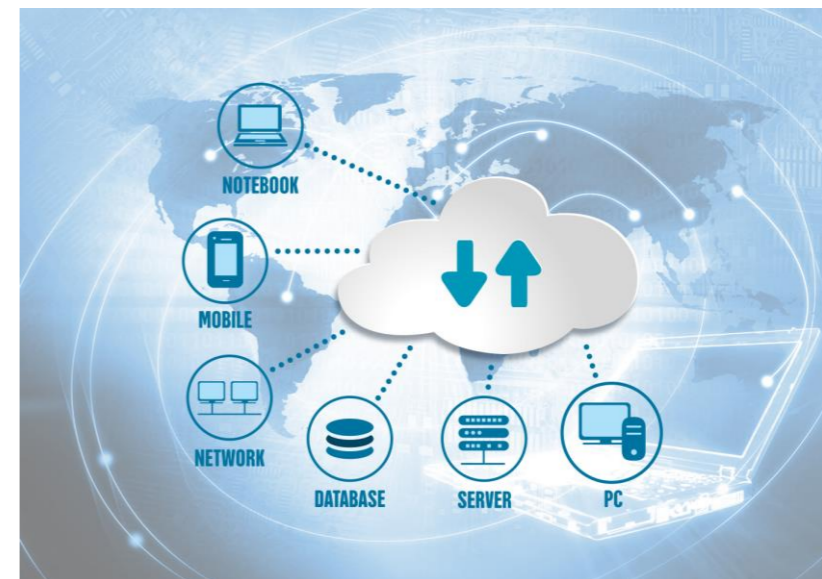
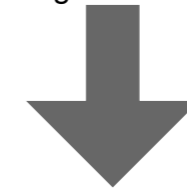


Image courtesy of www.bluecoat.com/

Based on your study of a real customer scenario, what are technical drivers and hurdles for migrating to a cloud-based solution and how could the migration experience be improved?

- How might we support the migration of customized on-prem systems to the cloud?
- How might we automate parts of this process?
- How might we address diverse customer needs wrt. isolation, multi-tenancy, big data analytics, security, no-touch extensions, etc?
- How are systems being developed differently and what is the impact for the customers?



Image courtesy of “MR LIGHTMAN” / FreeDigitalPhotos.net

GOALS & LEARNING EXPERIENCE

Participants will learn about

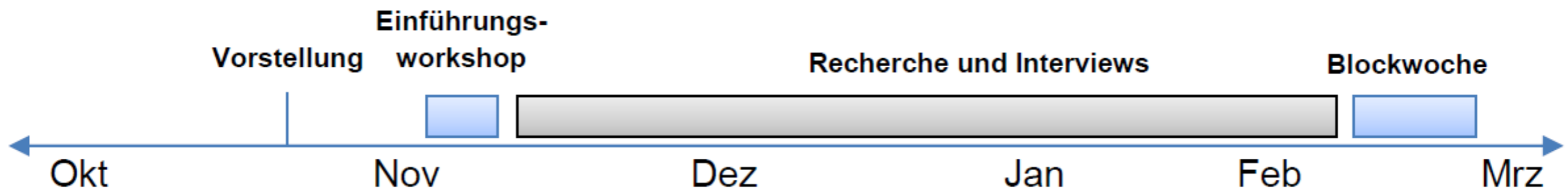
- fundamental working principles behind enterprise resource planning systems (ERP) and enterprise cloud platforms,
- the need for customization and extensibility of cloud-based enterprise applications
- its impact on other aspects of (cloud) ERPs, such as data footprint, scalability, programming model, updates, etc.,
- real business use cases and how they can be mapped to a cloud offering as well as ways to implement them

Participants will

- work hands-on and write, test, and deploy code for cloud-based systems
- conduct interviews with real customers and experts and distill and present the gathered insights
- propose and evaluate potential changes to the ERP architecture and discuss their impact on extensibility, data footprint, scalability, programming model, etc.



TIMELINE



OVERVIEW ON THE ELEMENTS OF THE SEMINAR

PRE-PHASE	INTRODUCTION	22.10.2018	Intro & information session
	2-DAY WORKSHOP	8.11. & 9.11.2018	Kick-Off workshop: <ul style="list-style-type: none"> •Expert Sessions •Hands-on Exercises •Preparation case studies
	SELF DEPENDENT GROUP WORK & EXERCISES	December January February	Case studies, identify positive experiences and issues in your cases <ul style="list-style-type: none"> •User and Expert interview •Further desk research •Synthesis of results •Your own schedule
	INTERMEDIATE PRESENTATIONS	tbd	Present your insights <ul style="list-style-type: none"> •Short presentation and discussion
SEMINAR	BUILDING & PRESENTING A SOLUTION	Feb / Mar 2019	Seminar block <ul style="list-style-type: none"> •Presentation: case studies and insights, initial prototype ideas •Expert sessions: technology aspects •Ideation and Implementation of a prototype •Test / evaluation with case study contacts •Final presentations •5 days
POST	DOCUMENTATION	31.03.2019	Document your work <ul style="list-style-type: none"> •Written report •Video or screencast to experience your prototype

PREREQUISITES

- Motivation to deep-dive into technical aspects of a modern cloud platform for enterprise applications
- Work on real customer use-case
- Teamwork
- Flexibility and Self-organization

GRADING

6 ECTS Points

- engagement to discussions, the project and team work, exercises, intermediate presentations (30%),
- project results and final presentation (40%),
- documentation of the results (30%)



Enroll until Oct 26th, 2018!