

Week 6: Additional Topics

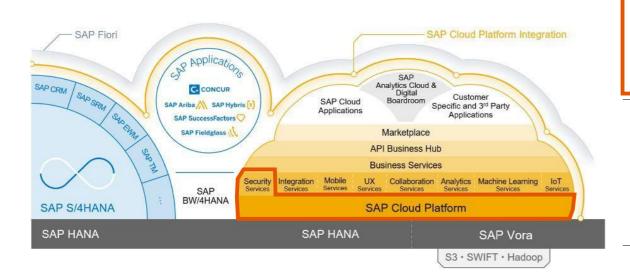
Unit 3: Cloud-Native Operations with SAP Cloud Platform





SAP Cloud Platform Identity Authentication

SAP Cloud Platform offers an end-to-end identity and access management (IAM) solution as a service that helps companies improve the security of their cloud business processes





SAP Cloud Platform Identity Authentication

- Simple and secure access to web-based applications
- Enterprise features such as password policies and multifactor and risk-based authentication
- On-premise user store integration
- Easy consumer and partner on-boarding via self-services



SAP Cloud Platform core security services

- Federated authorization & trust management
- Secure password and keystore services
- Application and platform identity provider management
- Custom platform roles



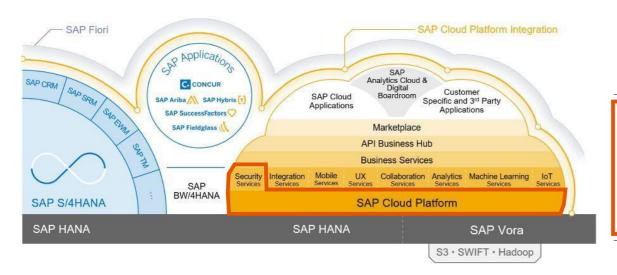


SAP Cloud Platform Identity Provisioning

- Automatically sets up and manages user accounts and authorizations in an end-to-end identity lifecycle
- Re-uses existing on-premise and cloud user stores
- Integrates with SAP Identity Management

SAP Cloud Platform core security services

SAP Cloud Platform offers an end-to-end identity and access management (IAM) solution as a service that helps companies improve the security of their cloud business processes





SAP Cloud Platform Identity Authentication

- Simple and secure access to web-based applications
- Enterprise features such as password policies and multifactor and risk-based authentication
- On-premise user store integration
- Easy consumer and partner on-boarding via self-services



SAP Cloud Platform core security services

- Federated authorization & trust management
- Secure password and keystore services
- Application and platform identity provider management
- Custom platform roles

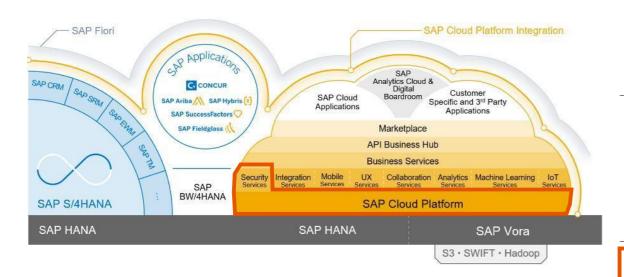


SAP Cloud Platform Identity Provisioning

- Automatically sets up and manages user accounts and authorizations in an end-to-end identity lifecycle
- Re-uses existing on-premise and cloud user stores
- Integrates with SAP Identity Management

SAP Cloud Platform Identity Provisioning

SAP Cloud Platform offers an end-to-end identity and access management (IAM) solution as a service that helps companies improve the security of their cloud business processes





SAP Cloud Platform Identity Authentication

- Simple and secure access to web-based applications
- Enterprise features such as password policies and multifactor and risk-based authentication
- On-premise user store integration
- Easy consumer and partner on-boarding via self-services



SAP Cloud Platform core security services

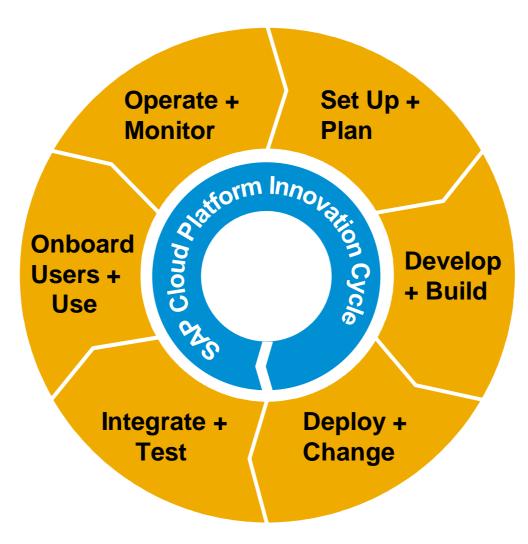
- Federated authorization & trust management
- Secure password and keystore services
- Application and platform identity provider management
- Custom platform roles



SAP Cloud Platform Identity Provisioning

- Automatically sets up and manages user accounts and authorizations in an end-to-end identity lifecycle
- Re-uses existing on-premise and cloud user stores
- Integrates with SAP Identity Management

Typical lifecycle phases for SAP Cloud Platform applications



© 2018 SAP SE or an SAP affiliate company. All rights reserved. I PUBLIC

5

Lifecycle Management and Continuous Integration and Delivery topic overview

Lifecycle Management Basics

- Change management options
- Account setup
- Multitarget applications

Lifecycle Management Hybrid Scenarios

- Enhanced Change and Transport System (CTS+)
- Integration into higher-level change management tools
- Hybrid supportability

Continuous Integration and Delivery

- CI components
- CI setup
- Combining CI and change management



Multitarget application (MTA) concept: motivation – Heterogeneity of cloud software...

Cloud applications often show a high heterogeneity

consisting of multiple interdependent software "modules"

written in different languages (polyglot)

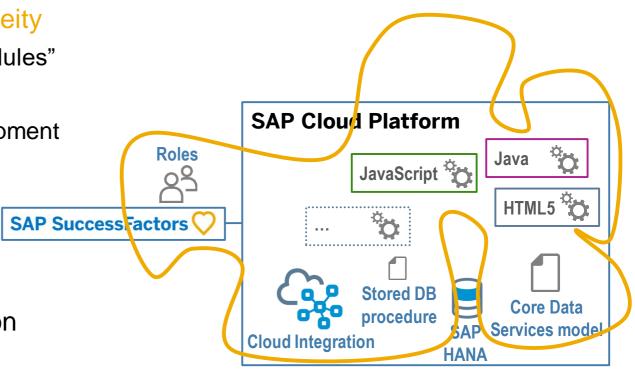
 using multiple programming paradigms and development tools

deployed to multiple target runtimes

involving different products

As modules provide a single coherent application purpose, shared single lifecycle is desired

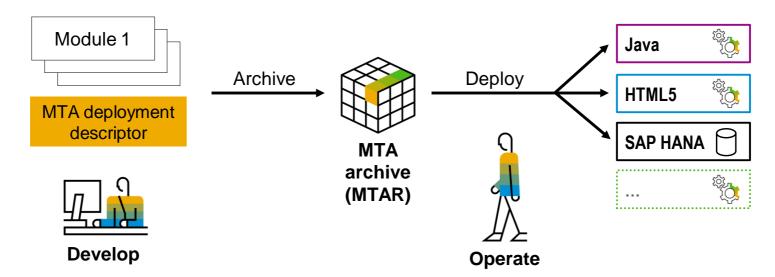
- to deploy all parts together, in the right order, automatically
- to manage configuration of complete solution



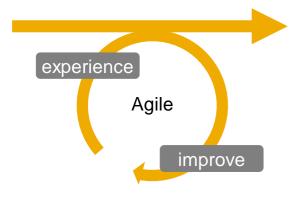
Multitarget application (MTA) concept and our approach to tackling it

To ease handling of such a combined single lifecycle, SAP introduced multitarget applications (MTAs)

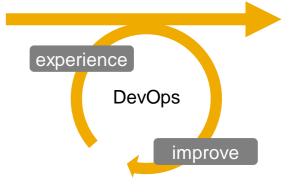
- Hand-over artifact between development and operation + delivery construct for partners
- Can be delivered, transported, linked to SAP software components, and deployed
- Process can be automated in a continuous integration pipeline
- For more information about MTAs, see <u>SAP Help Portal</u>



Continuous integration and delivery – It's not just a technical transformation







Foundation

for continuous delivery

Skills and methods to do the right things and do things right

Process

for continuous delivery

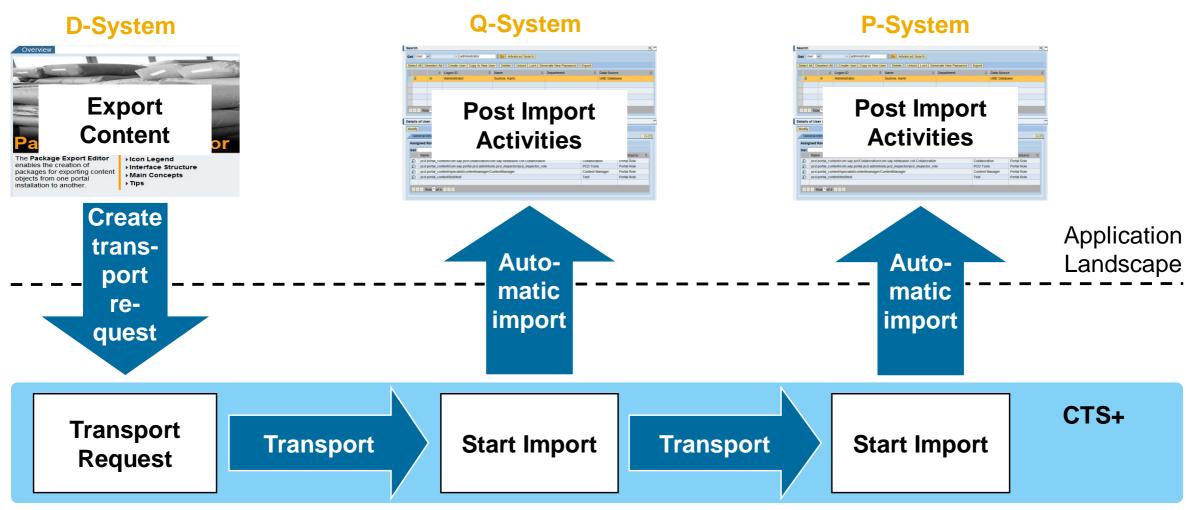
Process to get changes into production – fast – safely – sustainably

Accelerator

for continuous delivery

Close cross-function collaboration to gain speed

Enhanced Change and Transport System (CTS+) basics: sample landscape

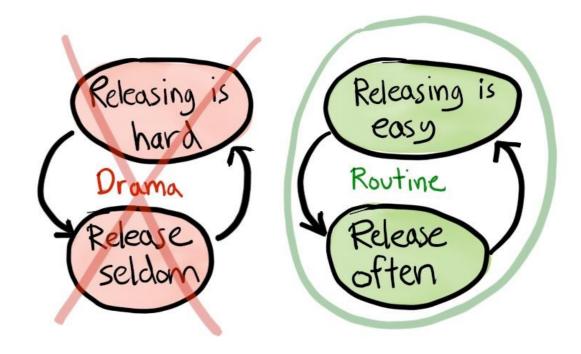


One central transport tool

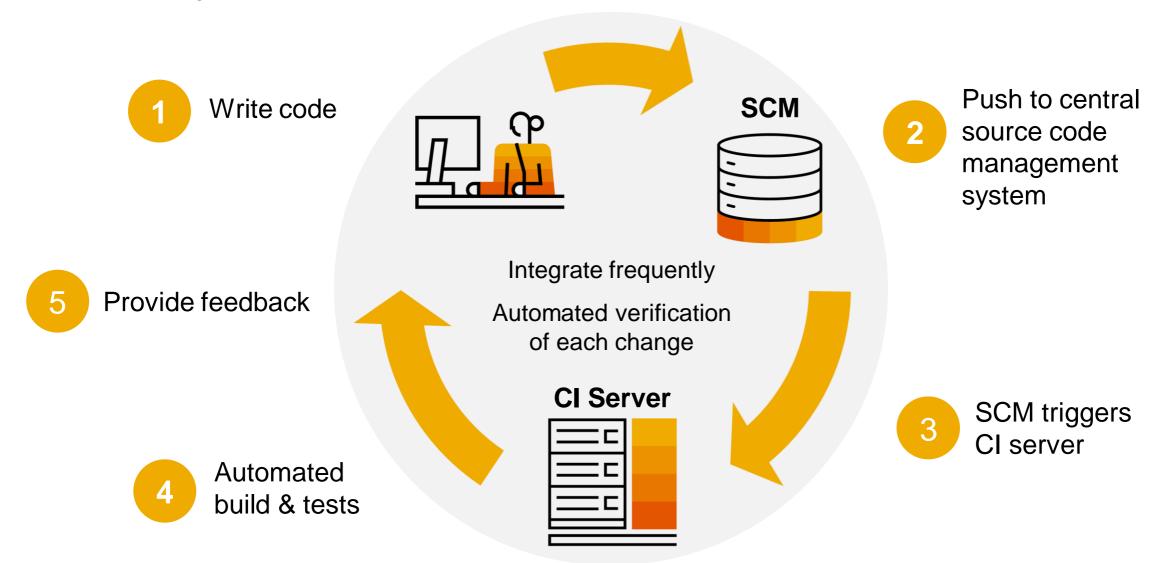
Continuous integration and delivery – Necessary steps

If you want to run in DevOps mode, it's advisable to implement a highly-automated agile development process to ensure speed and quality

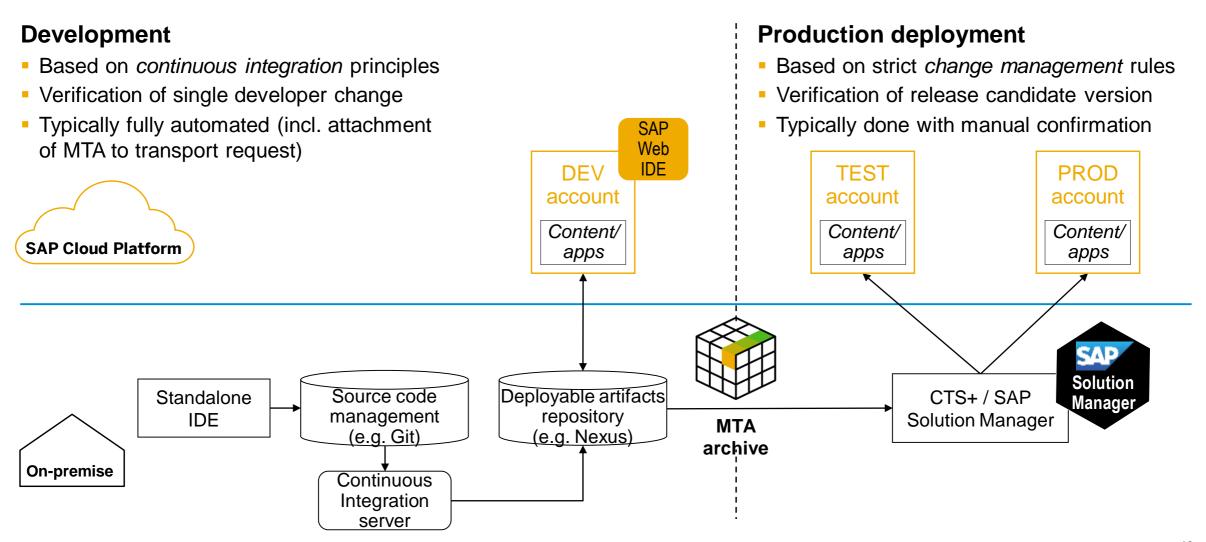
- Maintain a code repository
- Automate the build (scriptable MTA archive builder available)
- Make the build self-testing
- Every commit (to baseline) should be built
- Everyone can see the results of the latest build
- Automate the deployment



Continuous integration: basic flow



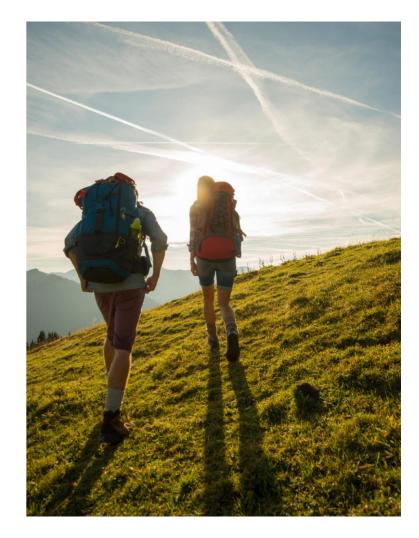
Combining continuous integration and change management



Further reading



- openSAP course: Cloud-Native Operations with SAP Cloud Platform
- SAP Cloud Platform Identity Authentication
- SAP Cloud Platform Identity Provisioning
- The Multi-Target Application Model
- Deploying SHINE on the Cloud Foundry Environment within SAP Cloud Platform
- How To... Configure HCP for CTS
- Continuous Integration (CI) Best Practices with SAP Introduction and Navigator



What you've learned in this unit

- What the openSAP course Cloud-Native Operations with SAP Cloud Platform is all about
- SAP Cloud Platform identity and access management services
- Typical lifecycle phases for SAP Cloud Platform applications
- Multitarget application (MTA) concept
- Enhanced Change and Transport System (CTS+)
- Continuous integration (CI)
- Combination of CI and CTS+



Thank you.

Contact information:

open@sap.com





© 2018 SAP SE or an SAP affiliate company. All rights reserved.

No part of this publication may be reproduced or transmitted in any form or for any purpose without the express permission of SAP SE or an SAP affiliate company.

The information contained herein may be changed without prior notice. Some software products marketed by SAP SE and its distributors contain proprietary software components of other software vendors. National product specifications may vary.

These materials are provided by SAP SE or an SAP affiliate company for informational purposes only, without representation or warranty of any kind, and SAP or its affiliated companies shall not be liable for errors or omissions with respect to the materials. The only warranties for SAP or SAP affiliate company products and services are those that are set forth in the express warranty statements accompanying such products and services, if any. Nothing herein should be construed as constituting an additional warranty.

In particular, SAP SE or its affiliated companies have no obligation to pursue any course of business outlined in this document or any related presentation, or to develop or release any functionality mentioned therein. This document, or any related presentation, and SAP SE's or its affiliated companies' strategy and possible future developments, products, and/or platform directions and functionality are all subject to change and may be changed by SAP SE or its affiliated companies at any time for any reason without notice. The information in this document is not a commitment, promise, or legal obligation to deliver any material, code, or functionality. All forward-looking statements are subject to various risks and uncertainties that could cause actual results to differ materially from expectations. Readers are cautioned not to place undue reliance on these forward-looking statements, and they should not be relied upon in making purchasing decisions.

SAP and other SAP products and services mentioned herein as well as their respective logos are trademarks or registered trademarks of SAP SE (or an SAP affiliate company) in Germany and other countries. All other product and service names mentioned are the trademarks of their respective companies.

See http://global.sap.com/corporate-en/legal/copyright/index.epx for additional trademark information and notices.