

ABAP Test Cockpit (ATC) in the Cloud—What Is Already Possible?

Olga Dolinskaja, SAP April 12, 2022

Public





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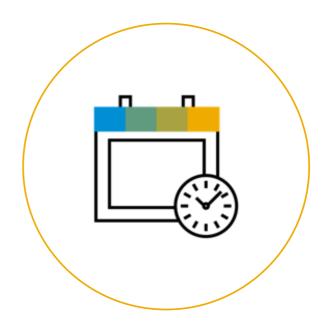
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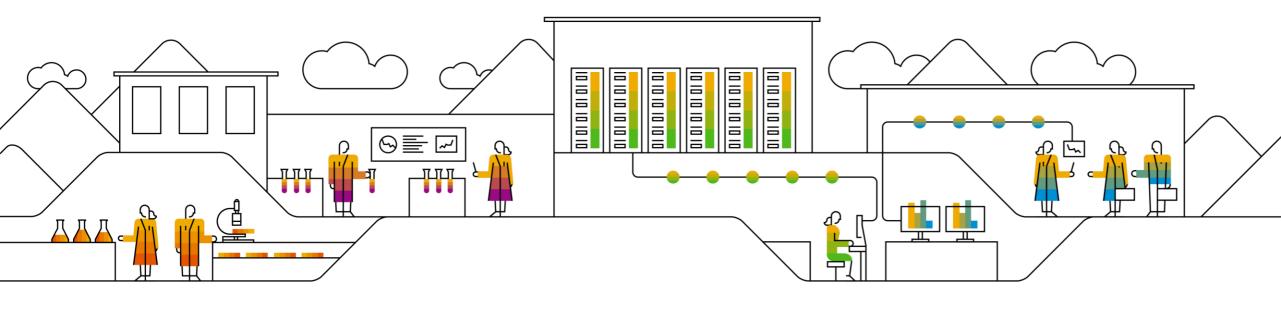
Agenda

CI/CD tools for SAP BTP ABAP Environment

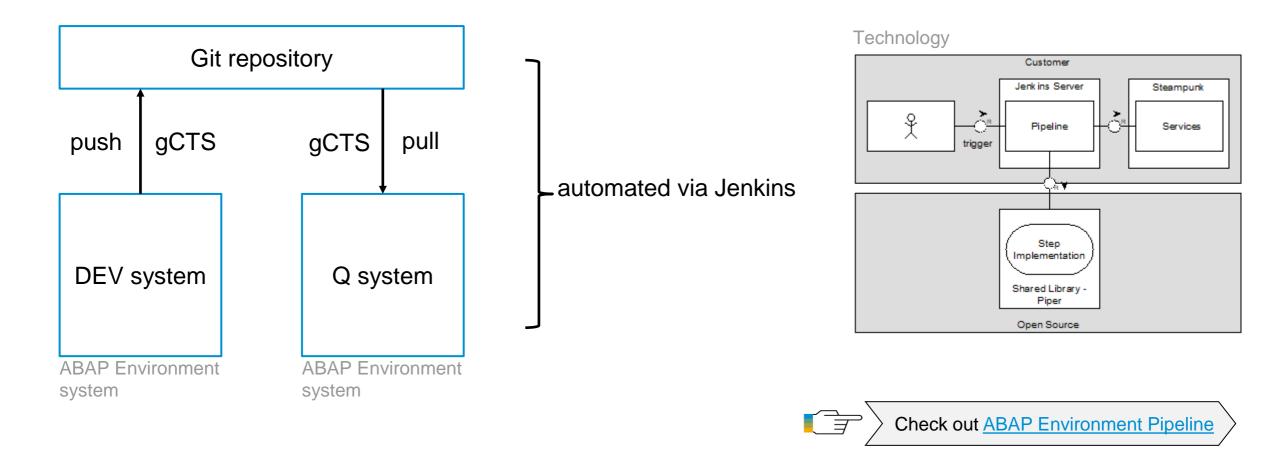
ATC in SAP BTP ABAP Environment



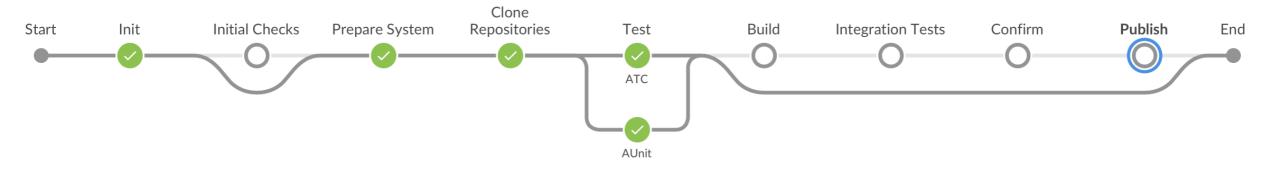
CI/CD tools for SAP BTP ABAP Environment



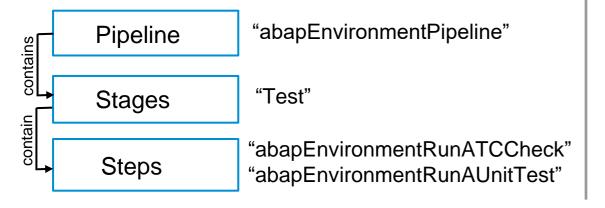
Piper and SAP BTP ABAP Environment (Steampunk)



ABAP Environment Pipeline - Introduction



Building blocks



Features

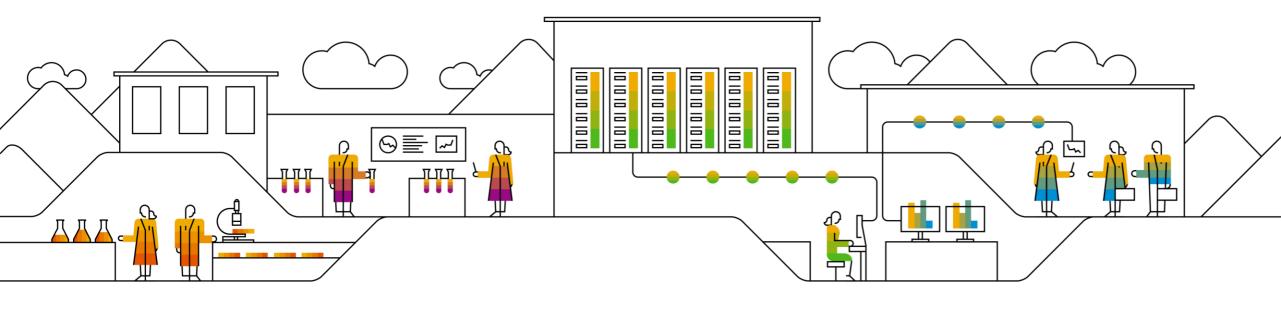
- Contains several stages and supports different scenarios
- Choose a subset of stages for the required use case
- Scenarios
 - Improve the software quality through continuous checks and testing
 - For SAP Partners: Building ABAP Add-ons as a SaaS solution





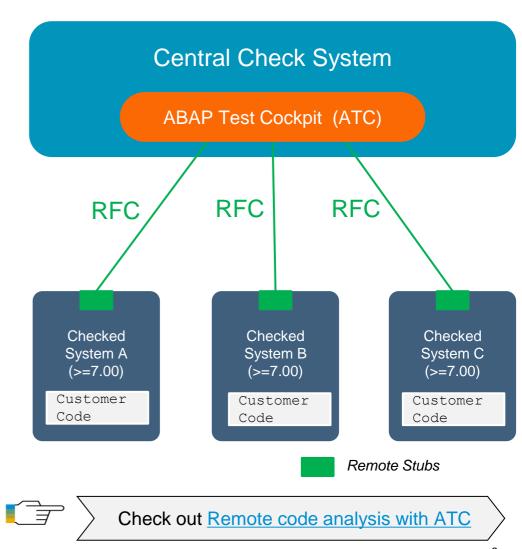
CI/CD Tools for SAP BTP ABAP Environment
SAP BTP ABAP Environment Pipeline: Introducing ABAP Unit

ATC in SAP BTP ABAP Environment



Remote ATC for custom code analysis of on-premise landscapes

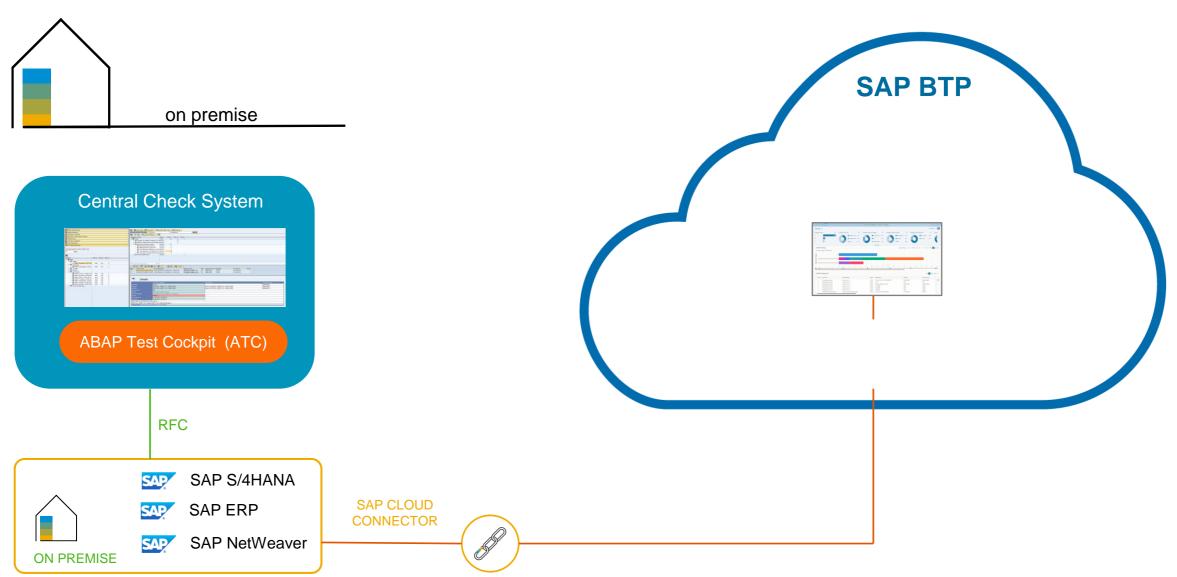
- CENTRAL ATC SYSTEM executes check logic
- REMOTE stubs return a model from custom code
- RESULT is analyzed in central system
- **INTEGRATED** in development environment (developer scenario)
- MOST CUSTOM CODE is supported (incl. modifications and enhancements)
- SUPPRESS false-positive findings with pseudo-comments
- ROBUST process for managing exemptions
- BASELINE concept to exclude legacy findings
- **EXTENSIBLE** infrastructure for customer specific checks
- INTEGRATED in SAP Solution Manager tools (CCLM, ChaRM, Retrofit)
- ESSENTIAL for custom code migration to SAP S/4HANA and SAP BTP



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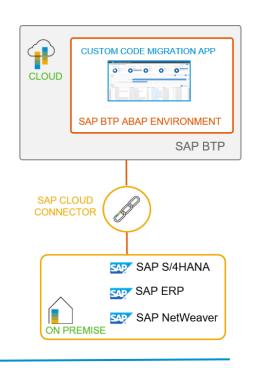
Move central ATC system to the Cloud



Custom code analysis in SAP BTP ABAP Environment with Custom Code Migration app

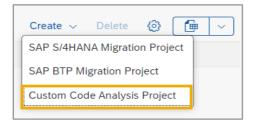
OVERVIEW

- Technically based on remote ABAP Test Cockpit (ATC) infrastructure
- Automated setup in SAP BTP ABAP Environment (also available as free tier model for SAP BTP)
- Custom code analysis for classic ATC use cases, SAP S/4HANA and SAP BTP migration
- Upload of collected usage data possible
- Comprehensive compact and visual filters to customize analysis results view
- Detailed analysis of a custom code finding incl. direct navigation to source code
- Burndown chart analysis results distribution over time
- Evaluation of custom code for semi-automated adaptation (Quick Fixes in ADT in Eclipse)



HIGH LEVEL FEATURES:

USE CASES



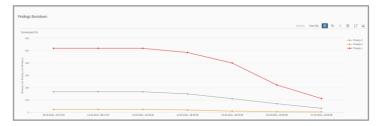
SCOPING



ANALYSIS



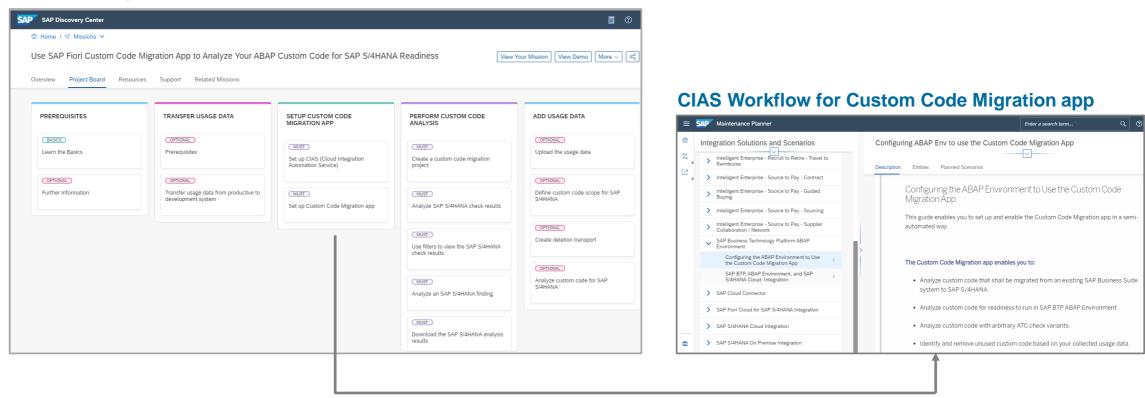
BURNDOWN CHART



Custom Code Migration app – Get Started

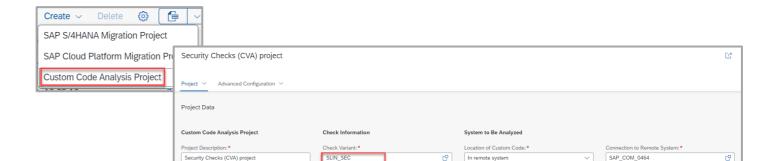
SAP Discovery Center Mission Use SAP Fiori Custom Code Migration app to analyze your ABAP custom code for SAP S/4HANA

- Custom Code Migration app in SAP BTP ABAP Environment
- Automated setup and configuration with CIAS guided workflow
- Step-by-step guided custom code analysis



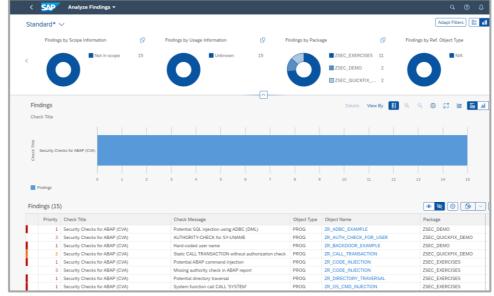
Code Vulnerability Analyzer (CVA) in SAP BTP ABAP Environment

- CVA in SAP BTP ABAP Environment is free of license fee
- CVA use case is available in Custom Code Migration app
- Create "Custom Code Analysis Project" and use SLIN_SEC check variant



CVA analysis results

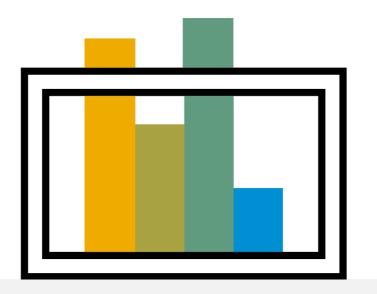
Run CVA checks

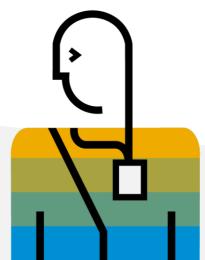


Check blog <u>ABAP Test Cockpit in the</u> Cloud – What is already possible

Demo

Code Vulnerability Analyzer (CVA) in the cloud





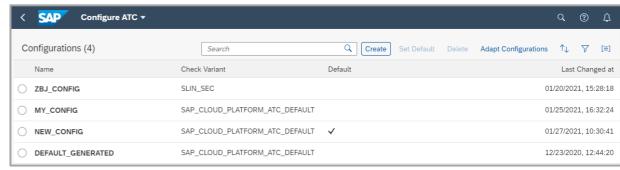
Configure ATC in SAP BTP ABAP Environment (1)

NEW SAP FIORI APP – ABAP TEST COCKPIT CONFIGURATOR

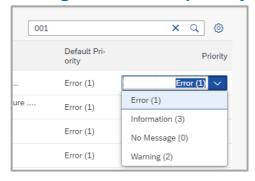
- View and maintain ATC configurations
- Create a new configuration based on an ATC check variant
- Configure ATC check priorities according to your needs
- Exclude ATC checks
- Configure transport settings

ATC Configurator





Change ATC check priority



Configure transport settings

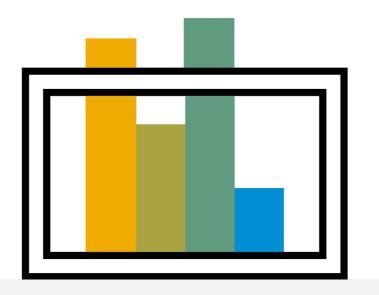


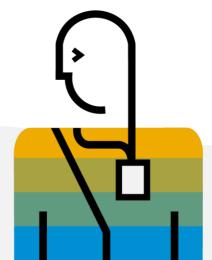


Check blog ABAP Test Cockpit in the Cloud – What is already possible

Demo

ABAP Test Cockpit Configurator

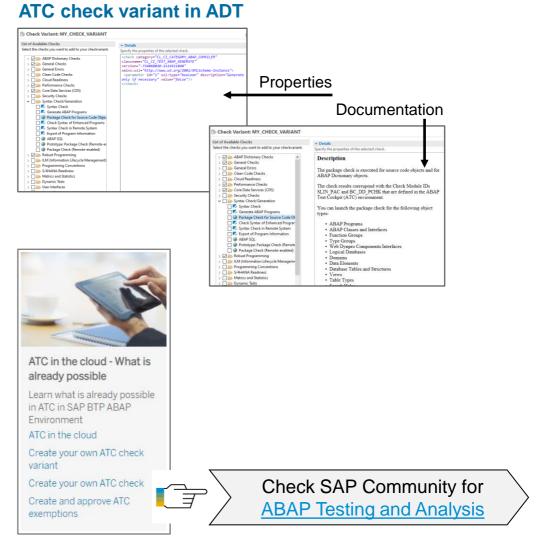




Configure ATC in SAP BTP ABAP Environment (2)

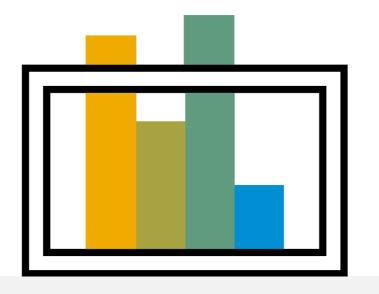
ATC IN ABAP DEVELOPMENT TOOLS IN ECLIPSE

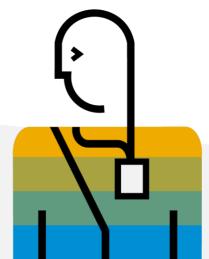
- Display/Create/Edit an ATC check variant in ADT in Eclipse
- Create custom ATC checks
- Create/approve/transport ATC exemptions



Demo

Create and configure ATC check variants





Custom code analysis – Status and Future Outlook

	ATC on-premise	ATC in SAP BTP
Required system	ATC check system (SAP_BASIS >=7.52)	SAP BTP, ABAP environment
Application	SAPGUI-based	Custom Code Migration app
Remote connectivity	via RFC	via RFC and SAP Cloud Connector
Code Vulnerability Analyzer (CVA) security checks	additional license	free of license fee
Usage data consideration	×	✓
Always use newest checks	×	(upgrade every 3 months)
Findings reported in the prioritized worklist	✓	✓
Analysis of findings: source code navigation, documentation	✓	✓
Robust exemption process	✓	X Planned
Baseline to exclude legacy findings	✓	X Planned
Developer scenario	✓	X Planned
Custom check variants incl. custom checks	✓	✓
Transport Management und CHARM integration	✓	X Planned

Thank you.

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