



Configuring SAP BTP Services Securely

Hands-On Workshop XP260

Public

Agenda

Introduction

SAP BTP Security Recommendations – Overview

Exercises

1. Using a custom identity provider to authenticate platform users
2. Protect access to the SAP BTP Cockpit with multi-factor-authentication
3. Security recommendations regarding user access and authentication
4. Audit Log
5. SAP Cloud Connector

Summary

Who we are



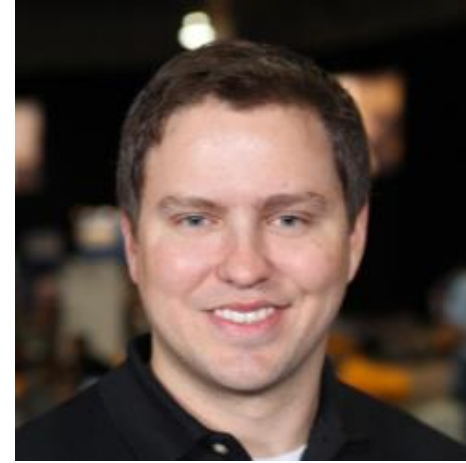
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SAP BTP Recommendations

 **Help Portal (Documentation)**

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SAP BTP Security Recommendations

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SAP BTP Security Recommendations

Use the information in this table to secure the configuration and operation of SAP BTP services in your landscape.

 **Note**

Not all SAP BTP services are listed yet. We've started with core security services and are extending this list service by service.

If your service is missing, see also the *Security* section of the service documentation on the [SAP Help Portal](#).

See also [Explanation of Table Headings](#).

Security Recommendations

Hide/Show Columns ▼

Search entire table

Service	Priority	Secure Operations Map	Topic	Default Setting or Behavior	Recommendation	More Information	Last Update	Index
Filter: [No Selection] ▼	Filter: [No Selection] ▼	Filter: [No Selection] ▼	Filter: [No Selection] ▼				<input type="text" value="Search column"/>	<input type="text" value="Search column"/>
Identity Authentication	Critical	Authentication and Single Sign-On	Strong Authentication	Default authentication method for the	Protect the administration console application with	Configure Risk-Based	2022-07-28	BTP-IAS-0001

SAP BTP Recommendations - Structure

Service	Priority	Secure Operations Map	Topic
<div>Filter: [No Selection] ▼</div> <div><input type="checkbox"/> Select All</div> <div><input type="checkbox"/> Cloud Connector</div> <div><input type="checkbox"/> Identity Authentication</div> <div><input type="checkbox"/> SAP Credential Store</div> <div><input type="checkbox"/> SAP Destination service</div>	<div>Filter: [No Selection] ▼</div> <div><input type="checkbox"/> Select All</div> <div><input type="checkbox"/> Advanced</div> <div><input type="checkbox"/> Critical</div> <div><input type="checkbox"/> Recommended</div>	<div>Filter: [No Selection] ▼</div> <div><input type="checkbox"/> Select All</div> <div><input type="checkbox"/> Authentication and Single Sign-On</div> <div><input type="checkbox"/> Awareness</div> <div><input type="checkbox"/> Regulatory Process Compliance</div> <div><input type="checkbox"/> Roles and Authorizations</div> <div><input type="checkbox"/> Secure SAP Code</div> <div><input type="checkbox"/> Security Governance</div> <div><input type="checkbox"/> Security Hardening</div> <div><input type="checkbox"/> Security Monitoring and Forensics</div>	<div>Filter: [No Selection] ▼</div> <div><input type="checkbox"/> Select All</div> <div><input type="checkbox"/> Access Control</div> <div><input type="checkbox"/> Audit Data</div> <div><input checked="" type="checkbox"/> Authority</div> <div><input type="checkbox"/> Critical Permissions</div> <div><input type="checkbox"/> Encryption, Data in Transit</div> <div><input type="checkbox"/> Identity Propagation</div> <div><input type="checkbox"/> Notifications</div> <div><input type="checkbox"/> Password Policy</div> <div><input type="checkbox"/> Privacy</div> <div><input type="checkbox"/> Security Fixes</div> <div><input type="checkbox"/> Service Specific</div> <div><input type="checkbox"/> Strong Authentication</div>

Getting an overview on the Secure Operations Map

Organization

Awareness

Security Governance

Risk Management

Process

Regulatory Process Compliance

Data Privacy & Protection

Audit & Fraud Management

Application

User & Identity Management

Authentication & Single Sign-On

Roles & Authorizations

Custom Code Security

System

Security Hardening

Secure SAP Code

Security Monitoring & Forensics

Environment

Network Security

Operating System & Database Security

Client Security

[Link](#)

Custom Platform Identity Provider

Addressed Requirements

Customer has full control over „platform“ users

- No S-users, avoiding restrictions of SAP ID service
- Custom password policy
- Enforce multi-factor authentication (MFA/2FA)
- Control user lifecycle: Integrate into corporate identity and access management

Single sign-on for SAP BTP Web UIs (cloud cockpit, ...)

Driving factors

- Compliance
- TCO / integrated administration
- UX

SAP Cloud Identity Services - Identity Authentication

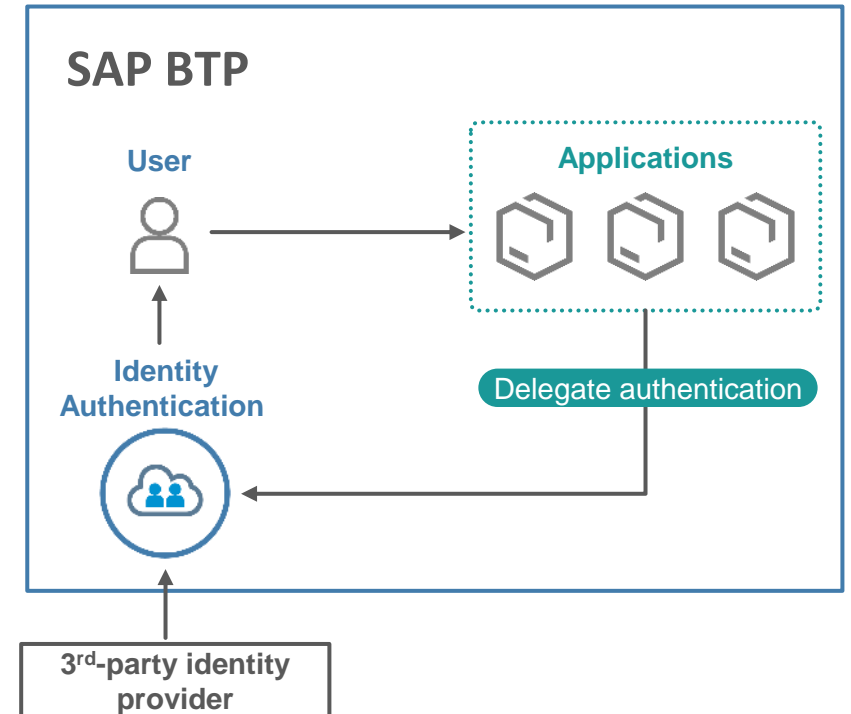
SAP Cloud Identity Services, Identity Authentication provides central user authentication, single Web sign-on, and user management as software-as-a-service. Based on open industry standards SAML 2.0, OIDC, OAuth and SCIM.

Key capabilities

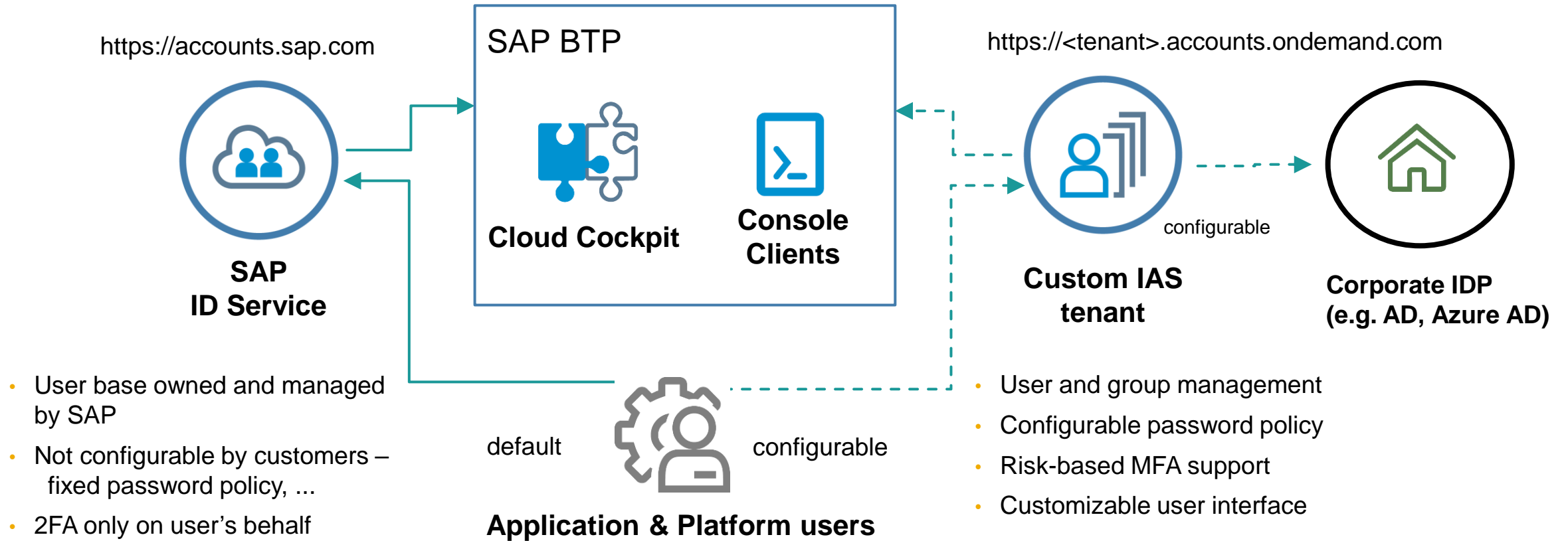
- Simple central configuration
- Flexible configuration options
- Secure authentication with multiple factors
- User management and self-services
- Pre-configured trust configuration
- Out-of-the-box disaster recovery setup

Benefits

- All connected SAP Cloud applications can offer their users the same authentication mechanism
- Flexible integration with customers' existing IAM infrastructure
- Use as landscape-wide identity provider

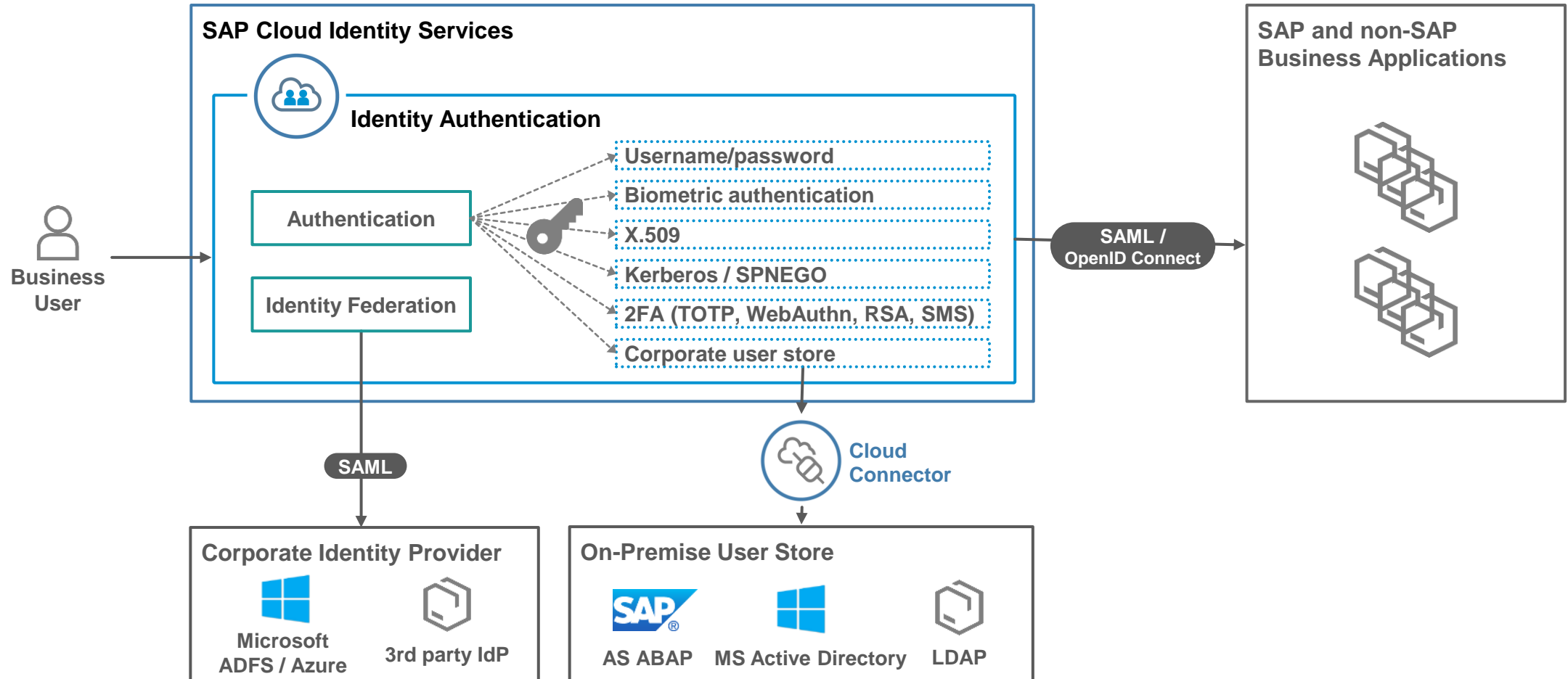


Custom Identity Provider



Identity Authentication & Federation

SAP Cloud Identity Services



BTP Security Track at SAP TechEd 2022

SAP TechEd
November 15–16, 2022

Innovate. Collaborate. Accelerate.

SAP TechEd 22 (November 15-16) is a hybrid event: Most sessions are virtual, but in addition there is a small on-site event in Las Vegas for hands-on workshops only

BTP sub-track for security with four sessions:

Lecture: Operating Secure Cloud Applications with SAP BTP (XP105)

Security and administration for cloud applications differ from on-premise applications. There are enterprise security services that help you protect your cloud environment. Get the news around SAP Cloud Identity Services and learn how security recommendations for SAP Business Technology Platform help you operate your applications in a more secure and compliant way.

Owner: Matthias Kaempfer

Lecture: Single sign-on and principal propagation in multi-cloud environments (XP106)

Interoperability and standards are key in multi-cloud set-ups. This is especially true for user authentication and authorizations when SAP BTP is deployed on a hyperscaler. In this lecture, we will show you how to secure a typical solution architecture by investigating the integration capabilities between SAP Identity Authentication Service and Microsoft Azure Active Directory, enabled by standards such as SAML, OAuth and OpenID Connect as well as principal propagation capabilities.

Owner: Marko Sommer, Martin Raeppe (Microsoft)

Breakout: Beyond Authentication: Managing the Identity Lifecycle in the Cloud (XP100)

Discover how SAP Cloud Identity Services can help you manage the identity lifecycle and add value to your IT processes. Hear from an SAP mentor and Discovery Consulting's Chief HR Geek Chris Paine how they used the risk-based capabilities of the Identity Authentication service to secure and simplify a go-live process. Understand the challenges customers are facing and how SAP Cloud Identity Services can be a part of the solution.

Owner: Sonia Petrescu, Chris Paine (Discovery Consulting)

Hands-On Workshop: Configuring Services on SAP BTP Securely (on-site in Las Vegas) (XP260)

Secure configuration and operation of the SAP Business Technology Platform (SAP BTP) platform landscape is critical. This workshop focuses on how to use security baseline documentation and its detailed information and instructions on the secure configuration and operation of your SAP BTP landscape. In this session we explore this guideline and share how it helps you configure your services on SAP BTP securely, including identity authentication, connectivity, and credential store capabilities.

Owners: Sandeep Voona, Christian Cohrs, Jürgen Adolf