

Best Practices to Enable Identity Access Management

Sonia Petrescu, Marko Sommer, SAP SE June 17, 2025

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SAP Strategy

Identity Access Management

SAP Cloud Identity Services (SCI)

Best Practices to enable IAM

Demo



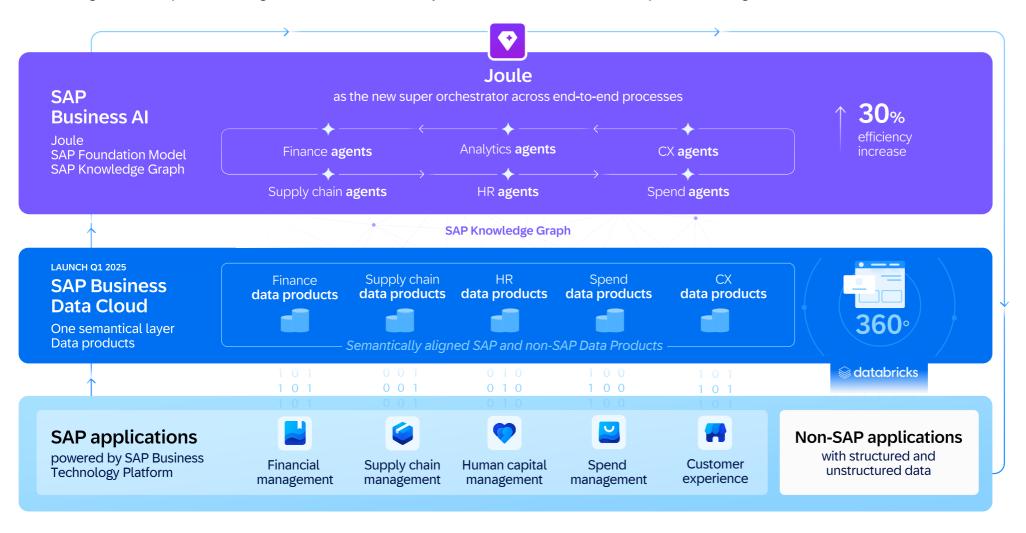
Our purpose

Help the world run better and improve people's lives



Realizing our vision by bringing together applications, data, and AI

SAP brings all components together to lead the way into the next era of enterprise management



Unrivaled Al

Al embedded in business processes

Unmatched Data

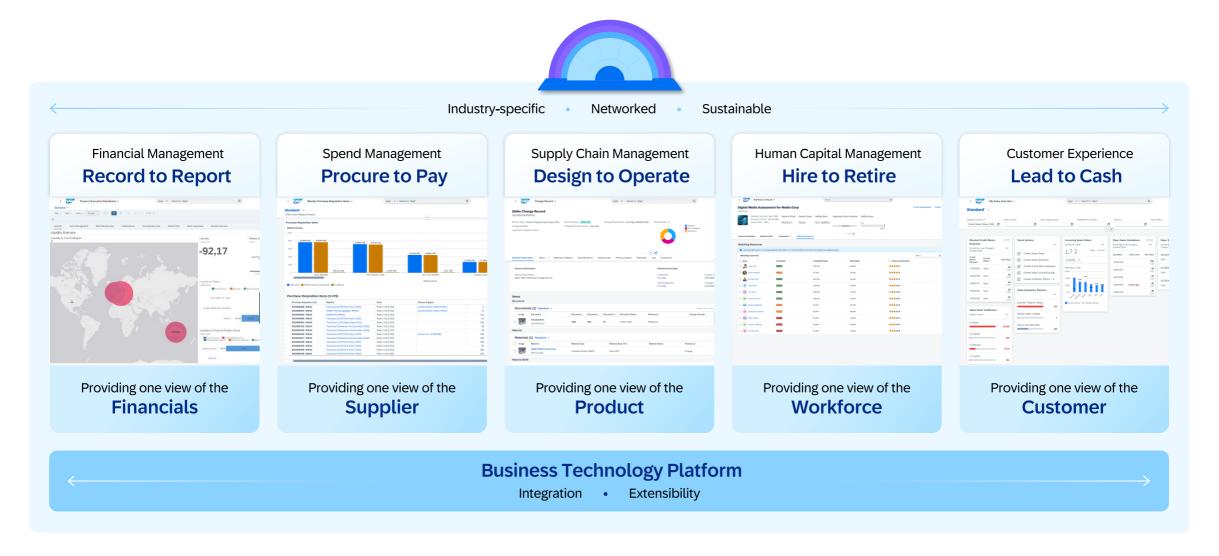
100% accurate and secure business data

Unparalleled Applications

Integrated Suite across SAP & non-SAP apps

Unparalleled Applications

Most comprehensive and integrated set of applications generating a wealth of business data



IAM for end-to-end Business Processes

The SAP Cloud Identity Services are a key component to ensure Consistent Security and Identity Management for SAP solutions with:

- Central user store for SAP cloud applications (Joule!)
- Consistent protocol support for customer IAM (SAML/OIDC, FIDO, SCIM, ...)
- Consistent security feature set for SAP cloud applications
- Authentication broker for multiple IdPs
- Application specific attribute mapping and enrichment of tokens by corporate IdP
- Feature support for non-standard integration scenarios
- Adoption of new technologies
 e.g. step-up-authentication, context based authorizations

Record to report Procure to pay **Design to operate** Hire to retire Lead to cash Suite qualities Seamless user experience Consistent security and identity management One workflow inbox Aligned Domain Models and integration content Embedded and cross-product analytics Coordinated lifecycle management End-to-end process blueprints

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Identity Access Management - Domains

IDENTITY LIFECYCLE



How users are being maintained, replicated, authorized from creation until deletion.

AUTHORIZATION



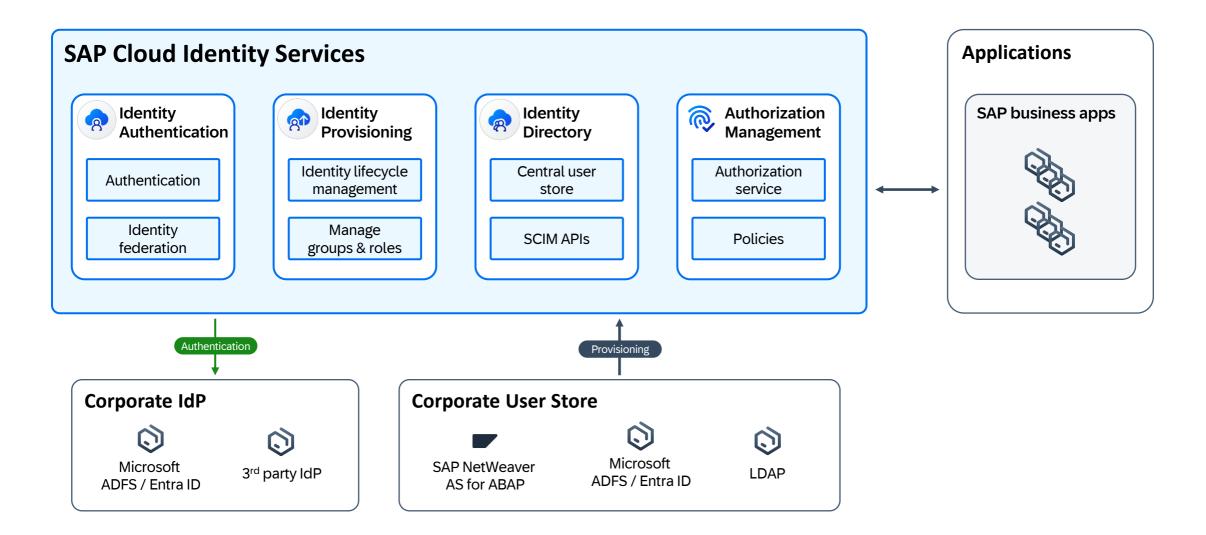
How authorizations are being maintained, analyzed from creation until deletion.

AUTHENTICATION



How users securely authenticate to applications with as few user-interactions as possible.

SAP Cloud Identity Services



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Best Practices to enable IAM

- Preparation
- Tenant Delivery & Persistence
- Identity Lifecycle Management
- MFA & Single Sign-on

Demo



Preparation - Checklist I/II



Best Practices – Landscape & Tenant Planning

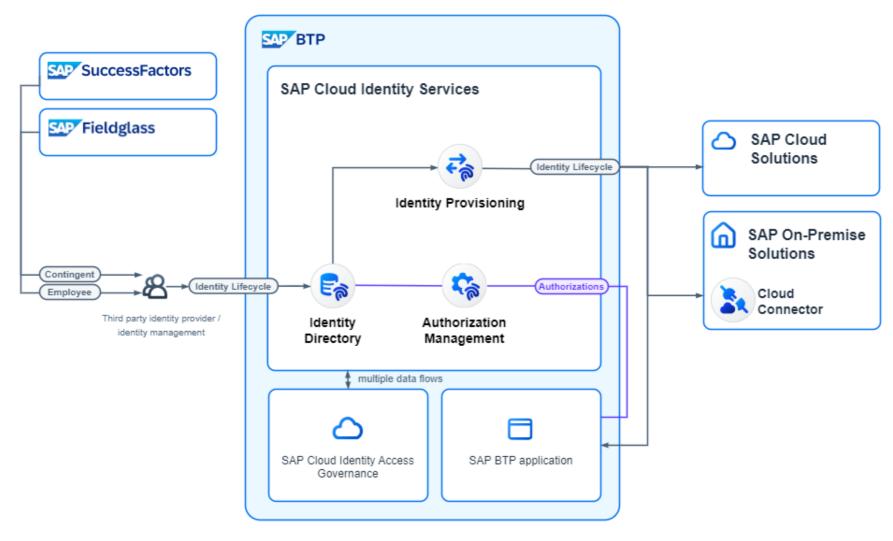
- SAP reference architecture: one prod/one test SCI tenant ('default tenants')
- Lifetime of additional SCI tenants is bound to BTP or SuccessFactors
- Tenant domain: standard, common super domain or custom domain (3rd party cookie issue)
- Multi region landscape: beware of latency

Best Practices – User Identifiers

Establish a unique user identifier across the SAP cloud landscape; recommended: SAP Global User ID

SAP Global User ID could be replaced with an established identifier, should be realized right from the start

SAP's IAM Reference Architecture - Identity Lifecycle



Preparation - Checklist II/II



Best Practices – Identity Lifecycle

- Definition of system of origin for each user type (employee/contractor/external/...)
- Avoid multiple systems of origin per user
- Holistic concept including access governance
- Identity Provisioning as the central tool to provision users to SAP (cloud) solutions

Best Practices – Single Sign-On

- SAML vs. OpenID Connect
 - ◆ In general both SSO protocols are fine, but the 'trend' is towards OIDC
 - OpenID Connect has advantages when it comes to principal propagation
- whenever possible consider parent-child setup to simplify configuration efforts
- SSO with SAP GUI should be established with SAP Secure Login Service

Tenant Delivery & Persistence



Best Practices - Tenant Delivery & Integration

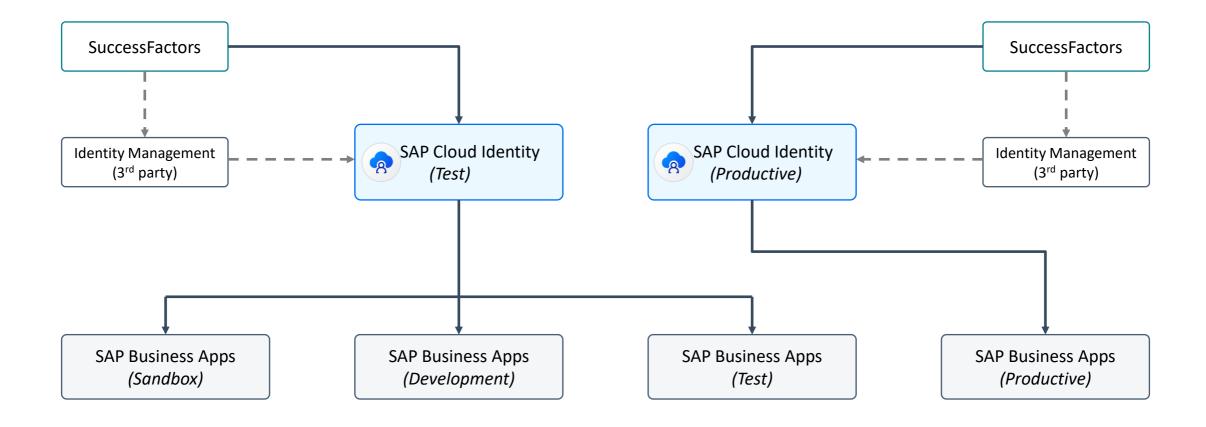
- Tenant Delivery
 - Fully preconfigured, e.g. for S/4 HANA Cloud, Integrated Business Planning
 - Self-service, e.g. BTP cockpit, BTP boosters, SuccessFactors Upgrade Center, SAP for Me
 - Overview about existing tenants: <u>help docu viewing-assigned-tenants-and-administrators</u>
- Tier recommendations
 - ♦ SCI prod ↔ prod. applications& SCI test ↔ test/QA/sandbox
 - \Leftrightarrow SCI prod \leftrightarrow prod/test/QA applications & SCI test \leftrightarrow sandbox

Best Practices - Persistence

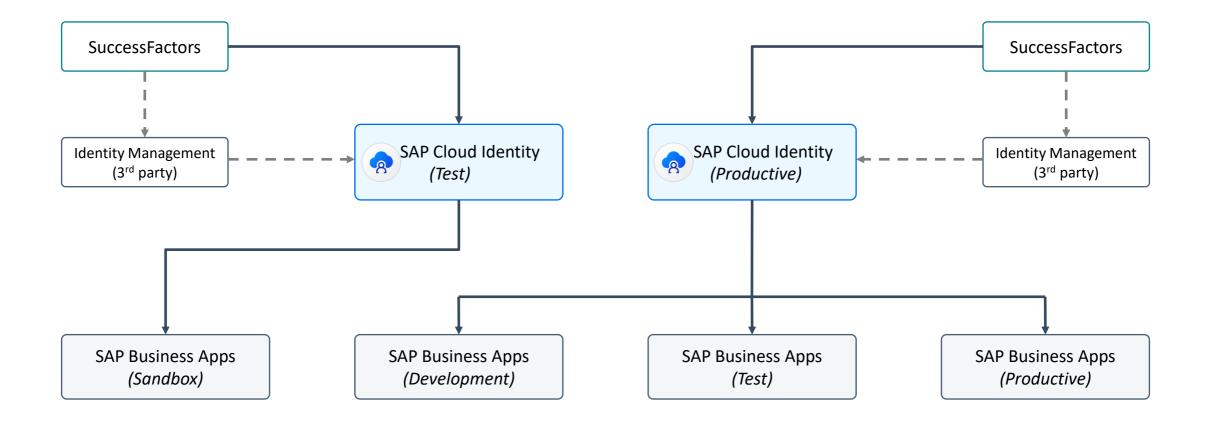
Identity Directory as central user store for SAP applications

User persistence in SCI is a precondition for Joule and applications with embedded Analytics

Tier Recommendations - Productive IAM manages productive Applications



Tier Recommendations - Productive IAM manages dev/test/prod



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Identity Lifecycle & Authorization Management



Best Practices - Identity Lifecycle Management (B2E)

- wuse either HCM or an IDM solution as leading system
- wasers should be provisioned to Identity Directory and then via IPS to SAP cloud applications
- ♦ 'old' IPS tenants on BTP Neo infrastructure should be migrated to the SCI infrastructure
- do not use BasicAuthentication for provisioning scenarios in productive landscapes but X.509 based authentication with automatic certificate rotation
- Large scale user provisioning: use bulk mode whenever possible

Best Practices - Authorization Management (central access governance)

Provision approved authorizations from the Identity Access Governance solution via SAP Cloud Identity Directory to SAP cloud solutions

Best Practices - Multi-factor Authentication (MFA) & Single Sign-On



Best Practices - Authentication

- Consider passwordless authentication methods
- Configure custom password policies according to corporate security concept
- Multi-factor Authentication
 - preferred: WebAuthentication/FIDO or TOTP
 - SMS and RSA require a license for 3rd party products
- Troubleshooting: SAML tracer, troubleshooting logs

Best Practices – Single Sign-on with corporate identity provider

- SAML vs. OpenID Connect: if possible, go for OIDC
- SSO for one application with multiple identity providers
 - Use conditional authentication configuration
 - To avoid (interim) login screen: use IdP initiated SSO or SP initiated SSO with IdP parameter
- igotimes For corporate users both 1st and 2nd factor should be validated with the corporate IdP

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Further Information

SAP Cloud Identity Services Best Practices

- CIO Guide: Identity Lifecycle in SAP Landscapes
- SCI Getting Started Initial Setup (SAP Help Portal)
- Establish SSO to your cloud solutions (Discover Center Mission)
- Best Practices for BTP Onboard to SCI (SAP Help Portal)
- <u>Security Recommendations (SAP Help Portal)</u>
- IAM Reference Architectures



Thank you.

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