

SAP Cloud Identity Services in a nutshell

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PUBLIC



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Agenda

What's IAM ?

What are the SAP Cloud Identity Services?

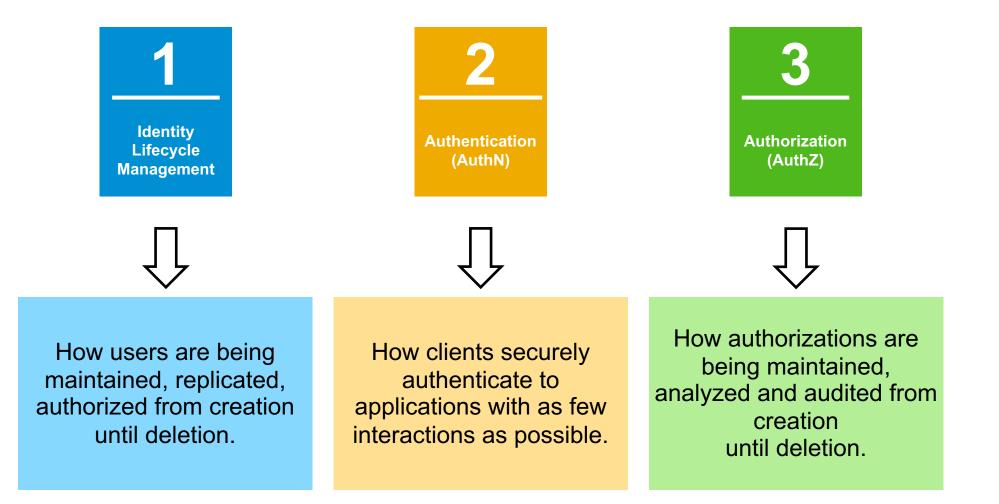
Why to use them ?

How would my architecture look like?

Wrap-up and feedback

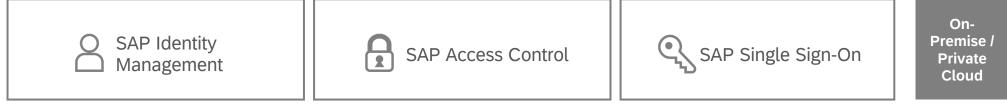
What's IAM?

What's IAM? Main Domains



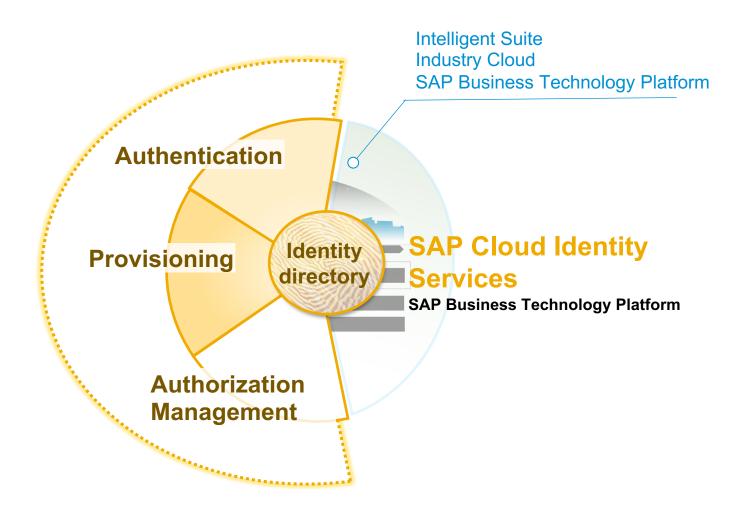
What's IAM? Portfolio

CUSTOMER	ENTERPRISE USER				_
	IDENTITY MANAGEMENT	GOVERNANCE, RISK & COMPLIANCE		AUTHENTICATION & SINGLE SIGN-ON	
SAP Customer Data Cloud /			oud Identity Governance		
	SAP Cloud Identity Services				Public Cloud
Platform	Identity Lifecycle Management (Provisioning)	Identity Directory (Storage)	Authorization Management (AuthZ)	Identity Authentication (AuthN)	Cioud



What are the SAP Cloud Identity Services?

SAP Cloud Identity Services What are they?



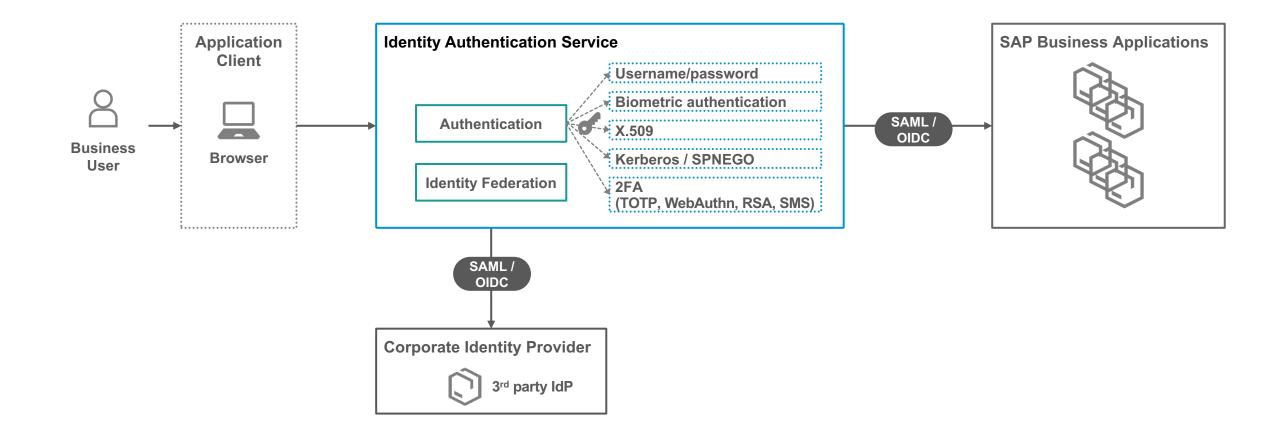
SAP Cloud Identity Services are the **default** to authenticate and provision users in cloud solutions from SAP.

- Identity authentication
- Identity provisioning
- Authorization management
- Integrated through the common identity directory

The number of **pre-integrated SAP solutions** that require **SAP Cloud Identity Services** will increase.

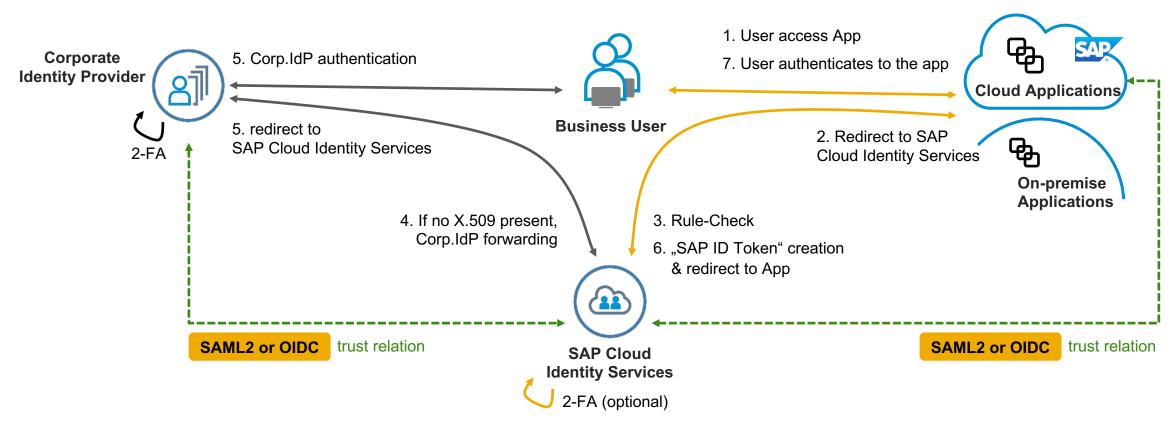
One cloud service from SAP is used to integrate any 3rd party identity management (IDM) system.

SAP Cloud Identity Services Identity Authentication



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SAP Cloud Identity Services Identity Authentication



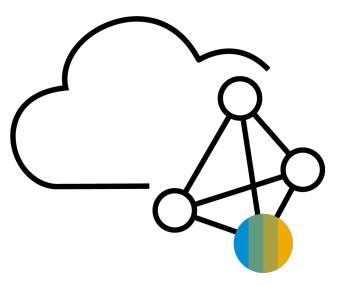
SAML: Security Assertion Markup Language - OIDC: OpenID Connect - JWT: JSON Web Token

2-FA: Two Factor Authentication

SAP managed

Identity Provisioning Connector Types

- Source System Connectors
- Target System Connectors
- Proxy System Connectors
- Check the <u>Documentation</u> for updated list of Supported IPS System Connectors



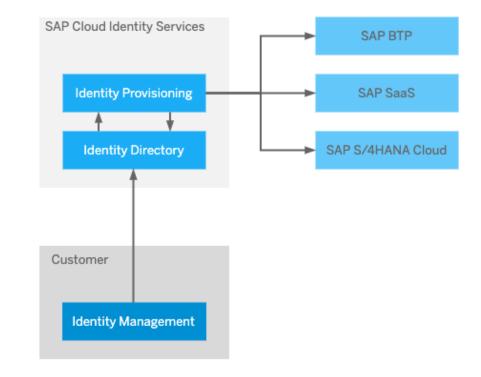
Out of the box configuration for user provisioning and authentication

What is the Identity Directory ?

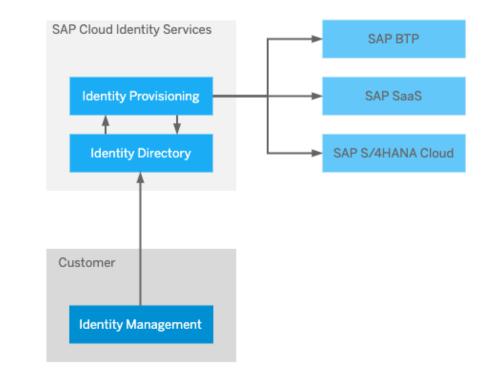
 Identity Directory is the central component for persisting users and groups inside the SAP Cloud Identity Services

How to access the Identity Directory ?

- With the Identity Provisioning service <u>SAP Cloud Identity</u> <u>Services – Identity Provisioning</u>
- Via the SCIM 2.0 API <u>SAP Cloud Identity Services Identity</u>
 <u>Directory</u>
- Via the SAP Cloud Identity services admin UI



- The usage of the Identity Directory simplifies how customers are connecting to our SAP SaaS applications, by using it as a central point of truth for the SAP cloud environment.
- A SCIM 2.0 API allows you to programmatically access the identities inside the directory
- APIs for viewing the predefined schemas but also to define own custom schemas with own attributes.
- Up to 20 custom schemas per tenant, each schema having a maximum of 20 attributes. The multivalued attributes (type *complex*) allow 20 sub-attributes.



- Authorization Management Service (AMS) provides a central management of end-user authorizations for business applications based on the SAP Business Technology Platform
- AMS user interfaces for configuration and assignment of policies to users are integrated into the SAP Cloud Identity Services administration console
- AMS is integrated with SAP's development models on SAP Business Technology Platform
- AMS offers a runtime for policy decisions that is integrated with the policy authoring and administration environment
- AMS is based on the existing Identity Directory of SAP Cloud Identity Services and enables customers to manage assignments of policies to users based on the Identity Directory SCIM API
- AMS is part of the SAP Cloud Identity services and does not require dedicated licensing

Assigning policies to user

- In SAP Cloud Identity, every policy has a corresponding group in the identity directory
- Assignment of policies to users is done by making the user a member of the policy group
- Customers can assign SAP-provided or customer-derived policies to users in the Identity Directory:
 - Using the UIs in the SAP Cloud Identity console
 - Using the SCIM API of the Identity Directory

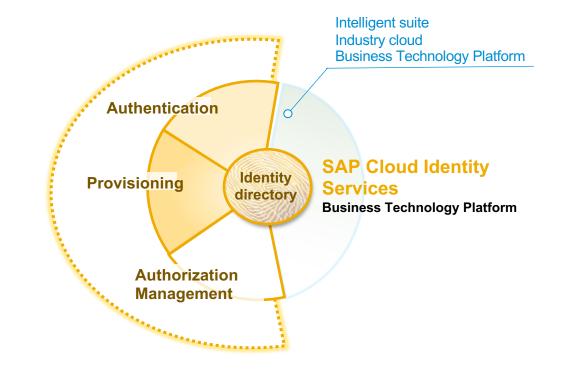
Why to use them?

Security and integration

- One point to synchronize user information, enable single signon, and maintain trust relationships for cloud solutions from SAP
- No additional cost* for usage related to SAP hybrid landscapes
- Delivery of integrated, ready-to-use, secure cloud solutions from SAP
- Identity directory as central point of truth for users with access to SAP's cloud landscape and to meet compliance requirements
- Support and availability from authentication to transaction no unclear responsibilities across cloud vendors

Innovate and build

- Support for innovation by giving our developers an agreed upon structure that they can use
- **Building extensions** on SAP BTP based on the users maintained in an SAP on-premise system

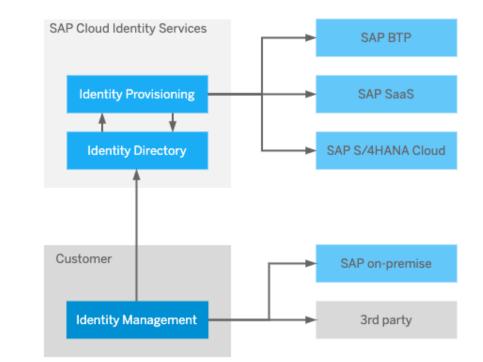


How would my architecture look like ?

SAP Cloud Identity Services High-level Reference Architecture with the SAP Cloud Identity Services

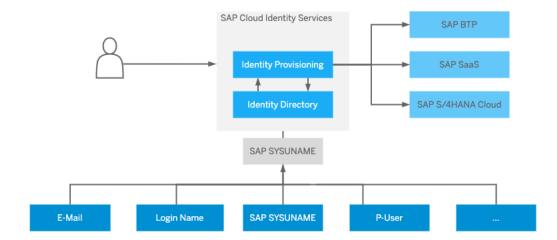
How?

- SAP Cloud Identity Services Identity Directory acts as central user and groups repository
- SAP Cloud Identity Services Identity Provisioning pre-configuration for SAP Cloud applications provisioning
- The Identity Management solution for on-premise provisioning



Global User ID A single common user identifier

- This Global User ID uniquely identifies a user across SAP business applications and services. Therefore, it replaces the need for a correlation of different external user identifiers.
- Apps like SAP Task Center with cross-application features require the Global User ID maintained for all users in all systems in scope
- Global User ID generation
 - SAP Cloud Identity Services
 - Customer ID**



*User Unique Universal Identifier (User UUID) **As soon as all relevant SAP applications used by the customer support this

SAP Cloud Identity Services High-level Reference Architecture with the SAP Cloud Identity Services

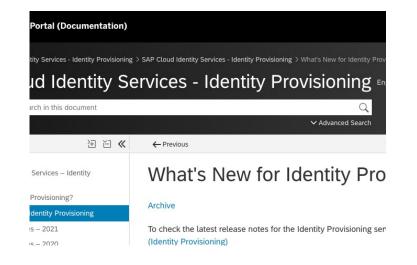
Why?

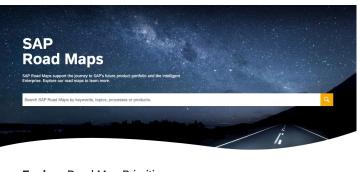
- Fast adoption of SAP solutions through out-of-the-box integrations (bundles)
- Rapid scenario extensions with optimized SAP connectors
- Reduced point-to-point connections effort
- Modular architecture with fast adoption
- Standard integration with SAP Identity Management available
- SCIM compatible integration with 3rd party Identity Management solutions
- Only one provisioning target for the SAP cloud landscape
- Optimized connectivity for the SAP BTP applications



Wrap-up & Feedback

Wrap-up & Feedback Recent enhancements and future development





Explore Road Map Priorities



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<u>What's New for Identity</u> <u>Authentication</u> <u>What's New for Identity</u>

<u>Provisioning</u>

SAP Cloud Identity Services Roadmap

Submitting Improvement Requests

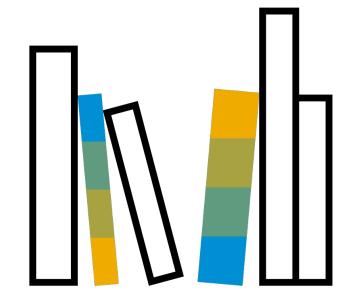
Wrap-up & Feedback Usefull links

Product Infos

- <u>SAP Community Identity Services</u>
- <u>SAP Cloud Identity Services</u>
- <u>Application documentation IAS</u> <u>Application</u> <u>documentation IPS</u>
- <u>Configuring Authorization Policies</u>
- <u>Assign Authorization Policies</u>

IAM Strategy

- System Integration Guide for SAP Cloud Identity Services
- **Developer Tools & Infos**
 - <u>SCIM API Reference</u> (API Hub)



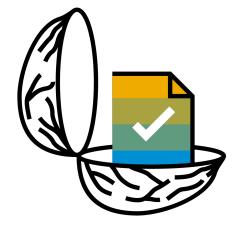
The Cloud Identity Services are the SAP central point for Identity Access Managemnt in the cloud.

The Identity Authentication service acts as an authentication broker but benefits from the close integration with the rest of the Cloud Identity services.

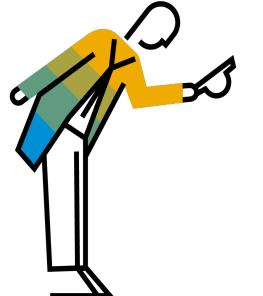
The recommended way is to use the Identity Directory as a single SAP user & assignment store, in order to allow automation and easier integration.

Optional point to point distribution channels can be manually configured, without laveraging future automation.

SAP Cloud Identity Access Governance integrations offer the full scope control.







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