The Universe of SAP BTP in a Nutshell – Platform Security

SAP BTP Security Team
2023
SAP’s vision is to enable networked intelligent, sustainable, and secure enterprises that deliver business and societal outcomes . . .

1. **Build securely**
   We build secure-by-design solutions.

2. **Run securely**
   We run cloud operations securely.

3. **Act securely**
   We foster a security-first culture in everything we do.
Pillars of security for SAP BTP

1. Build securely
   We build secure-by-design solutions.

- Secure cloud software development
- Leading security, data protection, and privacy features
We Build Secure-by-Design Solutions

**Software development**
We employ a security-first approach at every stage of the software development and operations lifecycle.

**Cloud environments**
We partner with leading providers to build secure-by-design cloud environments.

**Security solutions**
We offer solutions with specialized security and process-oriented controls that elevate customers’ security posture.
Phases in the Secure Software Development and Operations Lifecycle (SecSDOL)

1. BUILD

- Software development
- Start of standard development cycles
- NIST Cybersecurity Framework (CSF)
- ISO Standards
- Continuous Improvement and Development
- Security planning
- Security testing
- Security validation
- Security response
- Utilization
- Transition

Release decisions
SAP BTP Services to Build **Secure Applications**

- SAP Cloud Identity services
- SAP Connectivity and Destination Service
- SAP Custom Domain service
- SAP Malware Scanning Service
- SAP Authorization and Trust Management Services
- SAP Audit Log Service
- SAP Credential Store
SAP Cloud Identity Services

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.
Identity Authentication is a cloud service for authentication, single sign-on (SSO) and user management for SAP cloud applications. It can act as an identity provider itself or be used as a proxy to integrate with an existing single sign-on infrastructure. Identity Authentication is a component of SAP Cloud Identity Services.

Benefits

- Central SSO endpoint for SAP cloud applications
- Harmonize the authentication mechanisms and user management across SAP cloud applications
- Flexible enforcement of stronger means of authentication (multi-factor authentication)
- Identity Authentication can act as an authentication broker to enable SSO for all types of users
- Security token service for protection of system-to-system communication with principal propagation

Key capabilities

- Public cloud service offered in more than 12 regions worldwide
- Cloud Service Providers: SAP, Amazon Web Services, Microsoft Azure
- Support for open standards:
  - Single sign-on: SAML & OpenID Connect
  - Authentication: X.509, Kerberos/SPNEGO, FIDO
  - Multi-factor authentication: time-based one-time password tokens (TOTP), FIDO/WebAuthentication, Email, RSA
  - User provisioning: SCIM
- Conditional authentication to determine where to validate user’s credentials
- Risk-based authentication for flexible enforcement of multi-factor authentication
- Configurable password policies
- Branding style options for UI elements, e-mails, and error pages to comply with corporate branding requirements
- Troubleshooting and Audit Logs
- High Availability (HA) / Disaster Recovery (DR): 99.95% standard availability (multi-Availability Zones (AZ) offered in most regions)
  - ‘multi-region setup’ operated with two data centers in HA and DR mode among the respective data centers
- Zero Downtime Maintenance (ZDM)

You can find more information about Identity Authentication here:

SAP Discovery Center | SAP Community | Help Portal | API Hub
Identity Provisioning is a cloud service for managing identity lifecycle processes in the cloud. The service automates identity lifecycle processes and helps you provision identities and their authorizations to various cloud and on-premise business applications.

Benefits
- Fast adoption of SAP solutions through out-of-the-box integration (bundles)
- Rapid scenario extensions with optimized SAP connectors
- SCIM compliant integration with Identity Management solutions

Key capabilities
- Public cloud service offered in more than 12 regions worldwide
- Identity Provisioning tenants run on the infrastructure of SAP Cloud Identity Services and the SAP BTP, Neo environment (existing tenants only)
- Cloud Service Providers: SAP, Amazon Web Services, Microsoft Azure
- The Identity Provisioning service offers connectors for provisioning of users and groups between multiple supported cloud and on-premise systems, both SAP and non-SAP. The connectors can be customized via the Transformation Editor
- Automatic delivery of pre-configured provisioning systems for specific SAP cloud solutions
- (connectors) relevant to one or more bundled SAP cloud solutions
- The Identity Provisioning service can be consumed either directly through its APIs, or by the user interface (UI)
- Support for open standards:
  - User provisioning: SCIM
  - Transformation editor: JSON
- Authentication for secure communication with the provisioning systems: X.509
- High Availability (HA) / Disaster Recovery (DR): 99.95% standard availability (multi-Availability Zones (AZ) offered in most regions) ‘multi-region setup’ operated with two data centers in HA and DR mode among the respective data centers for the tenants running on the SAP Cloud Identity Services infrastructure
- Zero Downtime Maintenance (ZDM)

You can find more information about Identity Provisioning here:
SAP Discovery Center | SAP Community | Help Portal | API Hub
SAP Authorization and Trust Management Service

The SAP Authorization and Trust Management service provides security functions such as business user authentication and authentication of applications. It lets you manage user authorizations and trust to identity providers per subaccount. Identity providers are the user base for applications. We recommend that you use an SAP Cloud Identity - Identity Authentication tenant, which can be easily enabled. Alternatively, you can directly use custom corporate identity provider. User authorizations are managed using technical roles at the application level, which can be aggregated into business-level role collections for large-scale cloud scenarios.

Benefits
- Enables administrators to make sure that users only have access to functions for which they are authorized
- Enables developers to request authentication and implement authorization checks in their applications
- Enables administrators to manage user authorizations and trust to identity providers
- Support federated authorization assignment using group attributes from identity providers

Key capabilities
- Default identity provider with pre-configured trust
- One-click trust setup with SAP Cloud Identity Authentication Service
- Use of external identity providers
- Enables developers to define application-specific roles
- Enables administrators to manage authorizations for users
- Enables developers to manage authorizations for applications

You can find more information about Identity Authentication here:
SAP Discovery Center | SAP Community | Help Portal | API Hub
SAP Audit Log Service

The SAP Audit Log service is a platform service which stores all the audit logs written on your behalf by other platform services that you use. It allows you to retrieve the audit logs for your subaccount via the audit log retrieval API or view them using the Audit Log Viewer.

Benefits

- Allow Auditors to perform Audit related activities in efficient, reliable and complete manner
- Enablement of the cloud provider and/or customer to identify malicious activities
- Provisioning of Forensic evidence that can be used at court
- Make sure your business is compliant with the most recent business and product security standards

Key Capabilities

- Dependency Service for successful operations and commands
- Unified log messages
- 90 days default retention period
- Forward data to existing companywide security log system

You can find more information about the SAP Credential Store here:

Discovery Center: SAP Audit Log Service | Help Portal | API Hub
SAP Credential Store

SAP Credential Store provides a repository for passwords, keys and keyrings for applications that are running on SAP BTP, Cloud Foundry or Kyma. It enables the applications to retrieve credentials and use them for authentication to external services, or to perform cryptographic operations and TLS communication.

Benefits

- Create, store and manage cryptographic credentials, which your SAP BTP applications can use to access external services
- Provide higher level of security by using multi-version cryptographic keys to encrypt or decrypt other cryptographic keys
- Share service instances between spaces or subaccounts

Key capabilities

- Encryption of data by using customer’s own key
- Retrieval of passwords, cryptographic keys and keyrings for authentication to external services
- Access to service instances from external applications or from applications deployed in another space - by using service keys

You can find more information about the SAP Credential Store here:
Discovery Center: SAP Credential store | Help Portal | API Hub
SAP Custom Domain Service

SAP Custom Domain enables subaccount owners to make their SAP BTP applications accessible via a custom domain that is different from the default one (hana.on-demand.com) - for example, www.myshop.com.

Key capabilities

- Manage custom domains and configurations in Manager UI or via CLI
- Bring your own certificates for CSRs generated by the service
- Activate single or multiple custom domains per certificate
- Configure TLS properties like protocol version and cipher suites, mutual client authentication mode and trusted CAs, or HTTP/1.1 and HTTP/2
- Set up custom domain routes to SaaS subscriptions

Benefit

- Access to your domain: Configure your application with a name that is easily recognizable by your customers
- Application identity protection: Upload a TLS/SSL certificate to help secure your application identity and the data transmitted between the browser and your application

You can find more information about the SAP Custom Domain Service here:

Discovery Center: SAP Custom Domain Service | Help Portal
SAP Connectivity and Destination Service

SAP Connectivity Service allows cloud applications running on the SAP BTP to access remote services securely that run on the Internet or on-premise.

Key capabilities
- Consume APIs and data from APIs and data provided by any Internet service via HTTP(s) using destinations
- Consume APIs, data and users provided by on-premise systems via HTTP, RFC, or even with TCP using destinations and the Cloud Connector

Benefits
- Separation of concerns
- Security
- Re-useability
- Access via Tools

You can find more information about the Connectivity service here:
- Discovery Center: Connectivity Service
- Discovery Center: Destination Service
- Help Portal
- API Hub
SAP Cloud Connector

The SAP Cloud Connector establishes a secure VPN connection between SAP BTP and on-premise systems.

Key capabilities
- Fine grained access control lists of allowed cloud and on-premise resources
- Fine grained audit logging for traceability
- Principal propagation from cloud to on-premise
- Trust relation with on-premise system based on X.509 certificates

Benefits
- No change in the existing corporate firewall configuration is needed
- He initiates encrypted connections to cloud application from inside the on-premise network to the cloud
- Firewall and DMZ remain unchanged

Blog: Cloud Connector Setup
SAP Malware Scanning Service

SAP Malware Scanning Service provides the possibility to scan business documents for malware. Integrate this service with your custom-developed apps running on Cloud Foundry. When your apps upload business documents, they can call the SAP Malware Scanning service to check for viruses or other malware.

Key capabilities
- Scanning of documents
- Limit of about 20 concurrent scan requests depending on the overall load
- Service API is available on SAP API Business Hub

Benefits
- Secure SAP and non-SAP Applications, on SAP BTP, cloud foundry environment
- Reduce malware in your environment
- Help meet compliance requirements

You can find more information about the Malware Scanning Service here: SAP Discovery Center | SAP Community | Help Portal | API Hub
SAP BTP

APIs to develop secure software

SAP BTP offers various APIs to develop secure software applications.

A suite of services for user authentication and lifecycle management: **SAP Cloud Identity Services**

Manage application authorizations and trust for SAP BTP: **SAP Authorization and Trust Management Service**

Functionality for subaccount members managing: **Platform Authorizations Management API**

Manage destinations and securely connect to on-premise systems: **SAP Connectivity Service**

Managing passwords and keys: **SAP Credential Store Service**

Functionality for retrieving audit logs: **Audit Log Retrieval API**
We partner to build secure-by-design cloud environments

One standard, secure development and operations lifecycle

SAP converged cloud

Cloud service providers

SAP Security Services

Partner Security Services

Zero Trust Architecture
Additional solutions from SAP for **Securing Applications and Data**

Visit [sap.com/grc](http://sap.com/grc) for more information

**Identity and access management**

**Privacy governance solutions**

**A data custodian and encryption key management system**

**Focus on risk management across the portfolio of SAP solutions**

**Threat detection for SAP applications**
Areas of secure software development for SAP BTP

- SAP’s secure development and operations lifecycle
- Threat modeling
- Security assessment and testing
- Secure coding training for all developers
- Full application security testing
SAP’s secure **development and operations lifecycle**

Continuous improvement and development

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Threat modeling
Evaluating threats in the early stages

- Mandatory since 2018
- Required for each line of business
- Part of SAP’s secure software development and operations lifecycle
- Mitigation steps required depending on risk
Full application security testing
Dynamic and static code scanning for SAP Business Technology Platform

SAST:
- Provides white box security testing
- Scans source code
- Prevents vulnerabilities early in the security development lifecycle (SDLC)
- Is fully integrated into development process, hence highly effective vulnerability prevention.
- Can’t discover runtime and environment-related issues
- Typically supports all kinds of software

DAST:
- Provides black box security testing
- Scans a running application
- Finds vulnerabilities in the final solution (prior to delivery)
- Ensures high-quality security validation before delivery
- Can discover runtime and environment-related issues
- Typically scans Web applications and Web services

Full scan of SAP BTP source code, all programming languages used

Runtime testing of SAP BTP Web applications
Security assessment and testing
Internal and external security assessments including penetration tests

Penetration tests
- Internal and external
- Web applications (SAP BTP, SAPUI5, Web Dynpro, other)

Code scans
- Static application security testing (SAST)
- Dynamic application security testing (DAST)

Other application security testing
- Code scan
- Authorization tests end to end
- Virus scans for documents
- Other test methods
Pillars of security for SAP BTP

Security features

- Secure user access and permissions
- Security audit logs
- Secure communication and encryption
- Security, data protection, and privacy safeguards
SAP BTP – Application layer security

SAP Cloud Identity services
- Identity Authentication service
- Identity Provisioning service

Simplified Authentication and Authorization

Secure communication by encryption in transit
SAP-managed security configuration, secure by default
Detection of attacks with application, security, and audit logs
Data protection and privacy tools
Encryption of data at rest

SAP BTP user interfaces
- SAP Launchpad, Work Zone, Task Center

SAP BTP applications
- CF, Kyma, ABAP environment

SAP BTP persistence services
- Hana DB, Redis, PostgreSQL, ObjectStore as a Service

Top secure SDL measures:
- Threat modeling
- Static and dynamic code scans
- Internal penetration tests
- External security assessments
- OSS vulnerability scans

Build securely
Leading security, data protect, and privacy features
Secure user access and permissions

Secure access:

SAP Cloud Identity Services – Identity Authentication

- Single sign-on for SAP’s cloud-based applications
- Support for X509, SAML, OIDC
- Two usage options:
  - As the landscapewide identity provider
  - As identity provider (IdP) proxy for a smooth, flexible integration with customers’ existing identity and asset management (IAM) infrastructure

Managing users and permissions:

SAP Cloud Identity Services – Identity Provisioning

- Identity lifecycle management for cloud-based business applications
- Integrated with SAP Identity Management for hybrid landscapes and other IDM solutions
- Simple and agile onboarding of users and applications
- Dedicated connectors for third-party cloud platforms

End user

SAP Cloud Identity services

Corporate identity provider

Identity store, such as HR
- Users, groups, roles
- Cloud or on premise

Identity Authentication

Identity Provisioning

Manage identities and authorizations

Secure authentication and single sign-on

SAP Business Technology Platform
Secure communication and encryption

- Communication protocols of SAP BTP support encryption, such as HTTPS with up to TLS1.3 and AES-256
- Data at rest encryption is provided by the storage encryption of the persistence services
- They use SAP HANA or the IaaS layer underlying the SAP BTP. This is configured in the respective IaaS accounts used by SAP BTP.
- Storage-level encryption is supported on hardware level by SAP BTP and SAP HANA
Security audit logs via the SAP Audit Log service

Customer can review security relevant activities of customer users and SAP staff in the security audit log with:

- Timestamp
- Terminal ID
- Audit log event

Security-relevant activities include, such as:
- User logins
- Permission assignments or removals
- Change of Trust setups
- Subscription updates
- Change of monitoring checks
Pillars of security for SAP BTP

2. Run securely
We run cloud operations securely.

Secure operations and landscape architecture

Comprehensive contracts and audit
Areas of secure operations and landscape architecture

**Secure operations**
- Robust technical security architecture helping ensure
  - Network segregation
  - Data segregation
- Secure design of cloud services
- Hacking simulation (white box)
- Infrastructure vulnerability scans (monthly)
- Secure identity and access management
- Transparency of SAP access
- Backup and restore
- Disaster recovery options

**Detection of attacks**
- SAP’s Cyber Fusion Center
- Logging and monitoring of security events
- Automated use cases initiate alerts
- Manual extended analysis to identify sophisticated attacks
- Customer security incident process

**Data center security**
- Benefit from local regulations (select region of data storage)
- Physical security and network security
- Compliance, confidentiality, and integrity
- Data center on tier-level III or IV
- Low latency speeds-up access
SAP’s secure development and operations lifecycle
Continuous security monitoring and operations

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Continuous integration and delivery (CI/CD) pipeline security
CI/CD pipeline security
CI/CD pipeline security
CI/CD pipeline security

Secure operations and Landscape architecture
Run securely

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Incident Response and Disaster Recovery

- High Availability: Multi-AZ enabled Platform Services
- Standard DR: Restore from offsite backups

- Reduced planned downtimes
- Harmonized maintenance windows across SAP Cloud products

- Meaningful outage communication
- Real time status reporting

- Canary approach: ‘Eat your own dog food’.
- Pro-active & re-active monitoring
- 24/7 Operations & Incident Management, RCA & Improvements
Comprehensive contracts and independent audits

- Service-level agreements
- Technical and organizational measures
- Independent audits, certifications, and attestations
- Security framework description
- Applicable local regulations globally

Run securely
Secure operations and Landscape architecture
Compliance with Industry Standards and Regulations

SAP BTP services and the underlying infrastructure hold various certifications and attestations. The BTP services attestations and certifications can be found under the naming of SAP Cloud Platform in the SAP Trust Center.

SAP BTP runs in secure and certified environments:
- World-class data centers
- Advanced network security
- Reliable data backup
- Built-in compliance, integrity, and confidentiality

Infrastructure with 99.9% availability

For more details, see:
- SAP Data Center
- SAP Trust Center
- Cloud Availability section in SAP for Me
- Service level agreement for SAP Cloud Services

Certifications & Attestations

- ISO 27001 Cert. for Information Security Management Systems
- ISO 22301 Business Continuity Management
- SOC 1 SSAE 18, SOC 2 Type 2
- TISAX Trusted Information Security Assessment Exchange
- FSTEC Federal Service for Technical and Export Control
- C5 (BSI Germany)
- PCI-DSS
3. **Act securely**

We foster a security-first culture in everything we do.

---

**Our employees**

Security is foundational to how we organize and run our business, train our employees, and protect people and assets.

**Our customers**

We partner with customers for continuous feedback and improvement to address evolving security needs.

**Our partners**

We partner with members of our extensive ecosystem to improve security.
Security is part of our DNA

Employee preparation:
- Global awareness
- Role-based training

Protection of people and assets:
- Threat-modeling training
- Interconnected physical and cybersecurity

SAP CEO, SAP executive board

SAP chief security officer

SAP Global Security team
Partnership with customers for continuous feedback and improvement

Our focus on your security requirements

Customers

SAP

Customer advisory board

SAP Customer Connection program

SAP Continuous Influence program
Reporting of security incidents
Proven way for SAP customers and SAP researchers

SAP is committed to identifying and addressing security issues that affect our software and cloud solutions. We are continuously working on improving our security processes. To report a potential security issue, choose from the options below.

SAP customers
Report a customer security issue by using the SAP ONE Support Launchpad to find a solution and get real-time support from an expert.
View the launchpad

Security researchers
Inform the SAP Security Response Team of a security issue by completing and submitting the security vulnerability form.
Access the form

www.sap.com/about/trust-center/security/incident-management.html
Security Recommendations
Setting up SAP BTP in the cloud securely

Help Portal: SAP BTP Security Recommendations
Protect Your SAP BTP environment
Learn about SAP BTP security

Help Portal: SAP BTP Security
Ecosystem Partnerships for Enhanced Security

- **Cloud service providers**: Optimized environments with multiple deployment options
- **Security researchers**: Collaborate to improve security posture and readiness
- **Private / Public partnerships**: Bridging the cyber skills gap
- **System integrators**: Vast network of security advisors
- **Technology partners**: Leverage leading technologies to enhance security
- **Software vendors**: + 500 Partner solutions available on SAP store

We partner with:
Security and compliance are key capabilities of SAP BTP, approached holistically and from end to end.

SAP BTP is developed securely with built-in state-of-the-art security features and privacy capabilities.

SAP BTP Cloud operations adhere to and go beyond leading industry standards in technology, operative, and legal measures.
Further information

SAP Help Portal
SAP BTP – Documentation including security

Secure software development
White paper: The Secure Software Development Lifecycle at SAP

SAP Trust Center
Certifications and attestations
www.sap.com/about/trust-center/certification-compliance.html

Related SAP TechEd presentations
SEC205 – A Holistic Approach to GDPR and CCPA Helps Purpose-Driven Data Protection
https://events.sap.com/teched/en/session/48835

SEC200 – How to Run Identity and Access Management for the Intelligent Enterprise
https://events.sap.com/teched/en/session/51531

Security related customer content
Cloud Services: Reference Guide
Guide to Customer Content
Thank you.

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