

PingFederate®

Cloud Identity Management Platform

PingFederate Features

- Proven interoperability
- Lightweight, scalable architecture
- Point and click configuration
- Multi-protocol support

PingFederate Benefits

- Integrates with existing enterprise infrastructure
- Simplifies password policy maintenance
- Streamlines identity management
- Centralizes identity data for compliance
- Deploys in days, not weeks

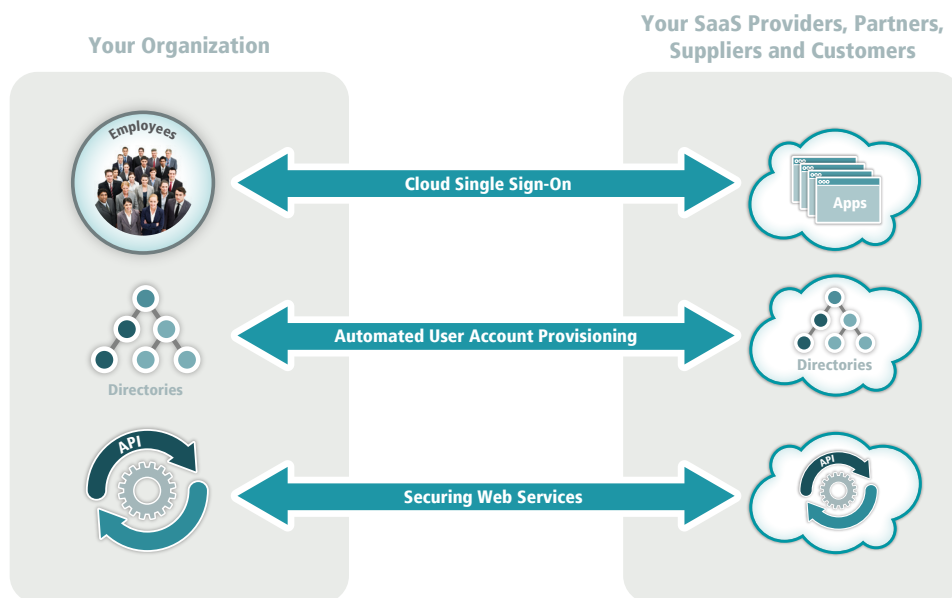
Simple, proven and secure, PingFederate is a cloud identity management platform, helping enterprises and cloud businesses empower employees, connect with customers and drive partner value. Whether deployed in a private, public or hybrid cloud, PingFederate easily integrates with your existing infrastructure for a complete mobile, Internet and cloud security solution.

Three Identity and Security Capabilities

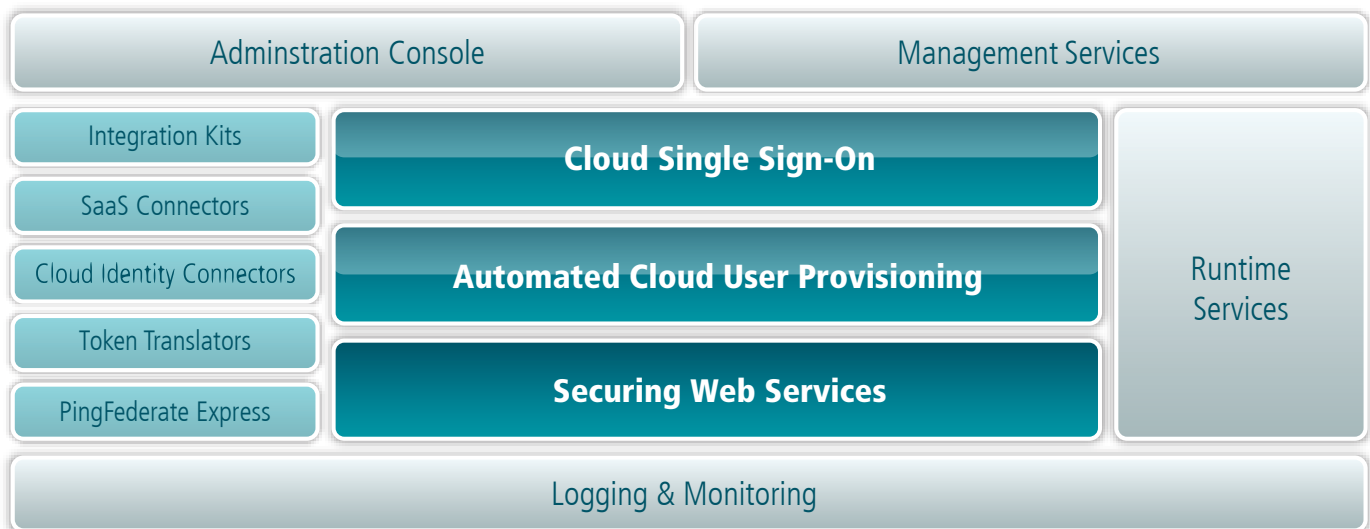
Cloud Single Sign-On (SSO) Using standard identity protocols, PingFederate allows employees, customers or partners access to multiple cloud resources using a single username and password.

Automated Cloud User Provisioning PingFederate automatically creates user accounts in cloud applications whether you're an enterprise sending employee attributes to a SaaS vendor or a cloud business creating accounts based on incoming assertions.

Securing Web Services Using industry standards, PingFederate's Security Token Service allows applications to add identity information to their API calls.



PingFederate delivers Cloud SSO, Cloud User Account Provisioning and Securing Web Services.



Cloud Single Sign-On

Federated Identity This process allows identities to be shared securely across disparate networks, applications and identity management systems, which permits Single Sign-On (SSO) to occur at scale. Data is connected through a common token.

Multi-Protocol Support PingFederate provides flexible, integrated support for the predominant federated identity standards including SAML (1.0, 1.1, AND 2.0), WS-Trust, WS-Federation, OAuth and OpenID. These standards are the foundational protocols for the secure use of multiple enterprise and cloud applications. Allowing users to authenticate just once, they play a critical role in cloud identity management.

Automated Cloud User Provisioning

SaaS Provisioning This provisioning monitors the enterprise directory for changes in a designated group or filters and then replicates user account creation, changes and deletions to the SaaS provider's directory (deprovisioning) at user-defined intervals, ensuring permission-based access.

Express Provisioning This creates accounts on-the-fly in the Service Provider's local directory when users first attempt SAML-based SSO. No need for an additional pre-provisioning process.

Securing Web Services

Security Token Service (STS) PingFederate creates and validates security tokens. With SOAP services, the token is typically a SAML assertion and carried within a WS-Security header in the SOAP message.

Security Token Translation PingFederate includes a WS-Trust-compliant Security Token Service (STS), which performs universal token translation by accepting one type of security token as input and producing an equivalent security token of a different type as output. It uses a plug-in architecture to support the processing and generation of different token types. STS is accessed programmatically via STS Client Software Development Kits (SDKs) and via third party WS-Trust clients.

Application Integration WS-Trust client SDKs for Java and .NET applications provide interfaces for interacting with the PingFederate STS through requests to create, validate and exchange security tokens. PingFederate also natively accommodates applications written in Windows Identity Federation.

Administrative Interfaces

Administration Console With a browser-based, GUI interface, PingFederate's console simplifies building Cloud SSO and secured web services connections. Role-based access rights can be established using an LDAP data store with either an individual user or an LDAP group. Access can use a X.509 certificate for stronger security.

Management Services These rich configuration tools automate scripting migrations, simplifying the development-test-production lifecycle and allowing easy integration into your existing infrastructure.

“Ping Identity has developed a distinctive Internet Identity Security Platform that organizations can readily deploy today rather than pinning their hopes on what tomorrow’s approaches may (or may not) bring. As applications continue to move into the Cloud, PingFederate provides compelling business value for enterprises, government entities and service providers alike.”

Scott Crawford

Managing Research Director,
Enterprise Management
Associates

Common Runtime Services

Identity Mapping and Attribute Retrieval Through external data lookup capabilities (JDBC, LDAP), we retrieve attributes for inclusion within SAML assertions and attribute queries for account mapping and linking as well as authorization decisions.

High Availability Self-contained clustering delivers fail-over and performance scalability, even for geographically distributed data centers. PingFederate shares user-session states and configuration data with servers, enabling user-transparent process requests as a single entity.

Certificate Management PingFederate eliminates manual command-line PKI certificate management by incorporating fully-featured, GUI-based certificate management capabilities. Automatic notifications alert administrators of expiration dates and a new digital signature simplifies annual partner certificate maintenance.

Logging and Monitoring

Cloud Security and Compliance for ArcSight PingFederate log files can be used for cloud audit and compliance strategies. Using an open log management standard, the Common Event Format (CEF) streamlines and simplifies audit log integration with ArcSight’s Enterprise Threat and Risk Management (ETRM) Platform, which allows customers to correlate and report on user’s cloud access as well as all internal user activity.

Logging to a Database PingFederate writes all logs to a database where key SAML message data is stored for fast indexing. Databases supported include Oracle, Microsoft SQL Server and MySQL.

Add-On Modules

Cloud Identity Connectors (CICs) These allow users to leverage their social networking account to register for a consumer-facing website, increasing registration rates and improving user adoption. In addition, they allow you to leverage third party authentication via Salesforce (CRM, Customer and Partner Portals) or Google Apps, for partners without a sophisticated infrastructure to support Cloud SSO.

Integration Kits For identity providers, these provide integration with web access management systems, directories, portals and strong authentication systems. For service providers, integration kits provide links into target application environments including web servers, applications servers and custom applications.

SaaS Connectors Required for SaaS Provisioning, these components eliminate manual account setup for SaaS Applications. Quick Connection templates simplify setup with pre-populated connection settings, account provisioning parameters and SSO endpoint parameters.

Token Translators Ping Identity offers token translators for several common token types, including X.509, SiteMinder and Kerberos. The PingFederate .NET and Java Client SDKs act as WS-Trust clients and allow these applications to interact with the PingFederate STS. The Token Translator SDK allows users to build custom token translators.

PingFederate Express™ PingFederate Express is a Cloud Single Sign-On (SSO) “endpoint” solution for Service Providers (application owners) who need to quickly, easily and cost-effectively establish a SAML connection with a PingFederate Identity Provider. Ultra-lightweight and maintenance-free, PingFederate Express allows Service Providers to be up and running with a production SAML connection in minutes.

Technical Specifications

Minimum Hardware

- Intel Pentium 4, 1.8GHz Processor
- 1 GB RAM
- 250 MB hard drive space

Federation Roles

- Identity Provider (IdP)
- Service Provider (SP)
- IdP Discovery

Supported Browsers

- Internet Explorer 6.x-8.0
- Firefox 2.x-3.6
- All modern browsers (HTTP/1.1 compliant)

Interoperability

- ADFS v2
- SharePoint 2010
- WIF/WCF
- Visual Studio 2010
- Oracle
- MySQL
- MS SQL Server

Supported Standards

- SAML 1.0, 1.1, 2.0
- WS-Federation 1.2
- WS-Trust 1.4
- OpenID 2.0,
- OAuth 1.0A, 2.0, OAuth WRAP

Directory/Database Support

- Microsoft SQL Server
- MySQL
- JDBC
- Oracle

Supported Platforms

- Red Hat Enterprise Linux
- SUSE Linux Enterprise
- Solaris 10
- Windows 2003 Server
- Windows 2008 Server

Additional Capabilities

- Metadata Exchange (MEX)
- Authentication Context
- Auto-Connect
- Integration with SafeNet LUNA

Support for Mobile Device Browsers

- Blackberry 3.2
- Android 2.2
- iPhone 4.2.1

PingFederate Add-On Modules

Integration Kits

- Java (IdP, SP)
- NET (IdP, SP)
- PHP (IdP, SP)
- Agentless (IdP, SP)
- CA SiteMinder (IdP, SP)
- Oracle Access Manager (IdP, SP)
- Tivoli Access Manager (IdP)
- Windows IWA/NTLM (IdP)
- LDAP (IdP)
- X.509 Certificates (IdP)
- RSA SecurID (IdP)
- Symantec VIP (IdP)
- BEA WebLogic (SP)
- IBM WebSphere (SP)
- SAP NetWeaver (IdP, SP)

Integration Kits (cont.)

- Microsoft SharePoint 2007, 2008 (SP)
- Apache (SP)
- Microsoft IIS (SP)
- Citrix Presentation Server (SP)
- ArcSight (IdP, SP)

PingFederate Token Translators

- CA Siteminder
- Kerberos
- OAM
- OpenToken
- Username/LDAP
- X.509 Certificate

SaaS Connectors

- Google
- Salesforce
- Workday
- WebEx

Cloud Identity Connectors

- Salesforce
- Facebook
- LinkedIn
- Twitter
- Windows Live
- OpenID (Google, Google Apps, AOL, other OpenID 2.0 providers)

PingFederate WS-Trust Client

- Java Client SDK
- .Net WIF/WCF

PingFederate Express

- PingFederate Express for IIS
- PingFederate Express for Apache

About Ping Identity

Ping Identity provides cloud identity security solutions to more than 600 of the world's largest companies, government organizations and cloud businesses. For more information, dial U.S. toll-free 877.898.2905 or +1.303.468.2882, email sales@pingidentity.com or visit pingidentity.com.



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