

Fuel Digital Transformation with Massive Scale and High Availability

Let's be frank. Your identity platform is only as good as its foundation. "Identity done right" gets done wrong without a rock-solid directory to store and access all that identity data. Provide secure, reliable access to digital identities and credentials with a directory designed for today's rapidly growing and highly dynamic environments. For years, the directory has been a proven repository within the enterprise; however, directory services must offer much more as requirements evolve to support users, devices, things, and services. A directory service must now be dynamically scalable, provide more sophisticated functionality, and offer easy access for developers.

The ForgeRock Identity Platform™ is the only commercial open source offering for access management, identity management, user-managed access, directory services, and an identity gateway, designed and built as a single, unified platform. ForgeRock® Directory Services, based on the OpenDJ open source project, is a state-of-the-art LDAP directory, 100% Java, and deployable on many platforms including virtualized environments. All software and data are architecture-independent, so migration to a different operating system or an alternative server is as simple as copying an instance of ForgeRock Directory Services to the new server.

One of the key design principles of the ForgeRock Directory Services architecture is addressing scalability and performance to deal with high throughput and low latency response requirements. ForgeRock Directory Services was designed to be super-efficient and flexible, with a small footprint that makes it an ideal to embed in custom applications, where a high performance data store is required. This flexibility also extends to the tools for developer access where access can be LDAP or REST.

Highly robust replication helps to ensure data availability for consistent, reliable access to identity data at all times. Advanced features such as Assured Replication can be used to guarantee data availability in the event of server failure. For geographically distributed environments, ForgeRock Directory Services supports WAN-optimized replication for increased bandwidth efficiencies. Also for regulatory compliance, Fractional Replication is important to segment data between different servers across different geographically located server.

HIGHLIGHTS

- Internet scale capable directory enables you to scale up as demands increase to provide consistent and reliable data to power user, device, thing and service implementations.
- Password and data encryption provide enterprises the means to securely deploy directory services on public clouds or use shared file systems infrastructures. The encryption ensures the confidentiality and integrity of the data at rest which adds a critical layer of security from malicious attacks and potential breaches.
- Flexible REST, LDAP, SDK and Web Services protocols provide easy integration for developers.
- LDAP directory server with Java architecture that supports the most demanding SLA environments with high throughput and low response times thanks to its tiny footprint.
- Deploy on-premise or in the cloud, including AWS, Azure and others

Features	Benefits
Performance and Scalability	<ul style="list-style-type: none"> Industry-leading performance with sub-millisecond read/write response times and low latency throughput, up to hundreds of thousands of operations per second. Scalable to internet sized workloads, whilst simultaneously meeting the most rigorous SLA requirements. Directory Proxy extends horizontal scalability in multi-tenant environments, providing even more availability, performance and better security for distributed architectures.
Architecture	<ul style="list-style-type: none"> 100% Java-based server is extremely efficient with minimal CPU, and on-disk footprint, significantly reducing data center costs.
High Availability and Multi-Master Replication	<ul style="list-style-type: none"> Supports HA deployments with advanced replication options including multi-master, fractional, and assured to ensure consistent data and data availability across the organization including managing instances with geographic separation.
Security	<ul style="list-style-type: none"> A wide variety of encryption mechanisms available to secure all data types, and supports multiple levels of authentication and authorization policies including SSL, StartTLS Certificate. Extensive security covers all aspects of Directory Services – connection, access controls, and data encryption for stored data. Includes a wide variety of password encryption schemes and customizable rules for password strength enforcement like PBKDF2 and bcrypt algorithms to provide adaptive password hashing used to protect passwords and authenticate users.
Pass-Through Authentication	<ul style="list-style-type: none"> Enables delegated authentication to another LDAP directory service, such as Active Directory which removes security risks associated with synchronizing passwords (e.g. transfer of clear text passwords), as well as Kerberos support.
Easy Setup and Administration	<ul style="list-style-type: none"> Task-based configuration lets you get started and configure a server within minutes and the command line utilities offer complete server management and monitoring locally or remotely. All configuration changes are audited and archived, offering easy rollback to a previous configuration.
Developer Access	<ul style="list-style-type: none"> Provides access through REST API, LDAP, and Web Services (DSMLv2) to ensure maximum interoperability with client applications and the Java SDK provides a library of classes and interfaces for accessing and implementing LDAP Directory Services.
Monitoring and Alerts	<ul style="list-style-type: none"> Supports widely adopted monitoring standards SNMP and JMX, for easy integration into your existing monitoring infrastructure. Configure custom alerts to inform administrators about specific directory service events, such as password expiration, access controls disablement, and backend database corruption.
Shared Services	<ul style="list-style-type: none"> The Common Audit Framework provides a means to log data consistently across the ForgeRock Identity Platform, and enables correlation of events and transactions. Audit topics, such as access and activity, can be configured independently delivering the data you want to the appropriate business services. Includes handlers for CSV files, JDBC connections, Syslog, and Elasticsearch (part of the ELK stack).
Backup and Restore	<ul style="list-style-type: none"> Provides advanced backup and restore functions such as automated, compressed, signed and encrypted backups to improve data reliability and security.

About ForgeRock

ForgeRock® is the Digital Identity Management company transforming the way organizations interact securely with customers, employees, devices, and things. Organizations adopt the ForgeRock Identity Platform™ as their digital identity system of record to monetize customer relationships, address stringent regulations for privacy and consent (GDPR, HIPAA, FCC privacy, etc.), and leverage the internet of things. ForgeRock serves hundreds of brands, including Morningstar, Vodafone, GEICO, Toyota, TomTom, and Pearson, as well as governments like Norway, Canada, and Belgium, securing billions of identities worldwide. ForgeRock has offices across Europe, the USA, and Asia.

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