



Netscape Directory Server for hp-ux



solution
brief

Netscape Directory Server for HP-UX is an LDAP server that centralizes application settings, user profiles, group data, policies, and access control information into a network-based registry. Directory Server simplifies user management by eliminating data redundancy and automating data maintenance. It also improves security, enabling administrators to store policies and access control information in the directory for a single authentication source across enterprise or extranet applications.

reduces administration costs

Netscape Directory Server for HP-UX lets administrators establish a network-based registry that applications can use to store shared data such as user information, groups, and preferences. With Directory Server, applications can achieve location independence by storing and retrieving preferences in the directory instead of reading separate files on a user's desktop. This allows users to work at virtually any computer as if they were at their own desktop. It also enables IT administrators to manage user credentials and profiles in one place, regardless of the size or number of applications that leverage the information. To enable customer self-administration, Netscape Directory Server for HP-UX distributes administrative control over one or more levels of enterprise management.

directory features increase availability

One way Netscape Directory Server for HP-UX ensures high availability is with multi-master replication. Deploying more than one master server eliminates write availability as a single point of failure. Simple Network Management Protocol (SNMP) provides flexible network monitoring. Directory Server also minimizes downtime for administration and maintenance by allowing backups, configuration changes, schema updates, indexing, and restoration of data to occur while the directory is online.

manages access across partner, supplier, and customer relationships

As an enterprise extends partner, supplier, and customer relationships online, managing access becomes increasingly difficult and expensive. Netscape Directory Server for HP-UX provides the scalability and information control required for developing extranet applications for massive numbers of users. By centralizing users, groups, and access controls across multiple applications, Netscape Directory Server for HP-UX dramatically simplifies administration. It also provides the foundation for strong certificate-based authentication when used in conjunction with an X.509v3 public key certificate solution.

flexible data storage

Netscape Directory Server for HP-UX can store user profile and preferences to authenticate, authorize access, and personalize information delivery. This allows LDAP-enabled applications to read user data and dynamically generate a personalized Web environment. The data can be configured and extended on the fly via schema updates without downtime.

multi-master replication

Multi-master replication brings directory availability and failover to unprecedented levels of performance. Multi-master replication increases flexibility in architecture and design of the directory deployment. Updates can be simultaneously applied to one or more directories, and changes automatically propagate to other participating servers.



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XML interfaces

XML interfaces enable a developer to use XML as the data standard to create and extract data within the enterprise. This simplifies development by enabling a developer to use a single data standard to interact with the Netscape Directory Server for HP-UX and other applications. Directory Server dramatically simplifies administration. In addition, the Directory Server can import and export XML documents based on the DSML v1 DTD.

features

LDAP version 2 and 3 implementation

- implements relevant LDAPv2 and v3 RFCs, including RFC 2251–2256, 2829, and 2830
- supports LDAPv2 and v3 operations
- supports LDAP search filters, including presence, equality, sub-string, approximate (“sounds like”), and the Boolean operators and (&), or (|), and not (!)
- supports LDAPv3 intelligent referrals, which let a directory refer a query to another directory
- integrates presence and status from instant messaging deployments using standard LDAP commands

high-performance server

- manages millions of entries and handles thousands of queries per second, per server; directory data can be logically partitioned across many servers
- scales linearly with multiple CPUs
- includes flexible attribute-level indexes that allow performance to be optimized based on the usage profile

flexible replication models

- supports multi-master replication
- helps lower network costs, improve response time, and eliminate single points of failure with directory replication
- supports offline replication for servers, allowing users to request replication instead of depending on the supplier’s schedule
- implements replication over LDAPv3
- supports selective replication of directory entries
- supports cascaded replication (when server A replicates to server B, which in turn replicates to server C)

advanced security features

- restricts access to directory data with control down to the attribute value level
- controls user’s ability to perform read, write, search, or compare operations
- provides access control based on user identity, group membership, role identity, IP address, domain name, or pattern-based rules
- allows access anonymously or via authentication methods such as user ID/password or X.509v3 public key certificates
- stores access control list (ACL) information with each entry so that security policy is replicated with the data
- supports LDAP over Secure Sockets Layer (SSL) and Transport Layer Security (TLS), providing privacy (encryption), integrity, and authentication services
- supports PKCS #11 for hardware-accelerated SSL/TLS
- supports password policy management to control minimum and maximum password lengths and password histories



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high availability

- provides 24x7 read and write availability
- allows multiple databases to be defined to store data across multiple disk partitions or multiple machines
- supports replication for data redundancy
- implements a transactional data store, allowing seamless recovery from catastrophic failure
- allows most administrative operations, such as backups, schema updates, and configuration changes, to be performed online

powerful administration tools

- allows delegation of administrative authority to the host, server, and task level
- allows administrators to monitor and tune server performance
- provides an easy-to-use GUI-based Java™ console for system administrators to manage the servers
- allows the use of custom attributes to extend the definition of users and managers to fit enterprise- or application-specific needs
- includes Certificate and Replication setup wizards that make configuration easy
- offers context-sensitive help
- supports SNMP with the IETF-defined standard Mail and Directory Management (MADMAN MIB)

extensible architecture

- includes class-of-service controls, allowing population of predefined user roles and services
- allows developers to write business rules that are triggered by directory operations
- allows developers to authenticate users against an existing authentication or authorization service, such as HP-UX Kerberos Server
- offers LDAP-UX integration for HP-UX, enabling developers to create LDAP security solutions, including support for Microsoft® Active Directory and migration of users from NIS directory to Netscape Directory Server for HP-UX
- supports HP-UX AAA Server and HP-UX Mobile AAA Server
- enables pluggable components for customized sorting and collation of international character set
- supports a dynamically extensible schema

developer tools and utilities

- supports popular LDAP extensions, such as Persistent Search, Server-Side Sorting, and Virtual List View



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supported platforms and system requirements

- **hardware:** HP UNIX® servers
- **architecture:** PA-RISC
- **operating system:** HP-UX 11.0, HP-UX 11i
- **memory requirement:** 256 MB minimum
- **disk space:** 200 MB minimum

features summary

- centralizes management of people and their profiles, thus reducing administrative costs
- acts as a central repository for user profiles and preferences, enabling personalization
- allows replication of data across the enterprise, providing a centralized, consistent data source available to enterprise applications
- enables single sign-on access with a partner solution
- provides scalability for massive numbers of users by containing the information control required for developing extranet applications to a subtree held by another directory server

additional information

For more information, visit: www.hp.com/go/hpux

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