

IBM Security Directory Server
Version 6.3.1.5

Product Overview



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Note

Before using this information and the product it supports, read the general information under "Notices" on page 11.

Edition notice

Note: This edition applies to version 6.3.1.5 of *IBM Security Directory Server* (product number 5724-J39) and to all subsequent releases and modifications until otherwise indicated in new editions.

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Contents

About this publication	v	Chapter 2. System requirements	3
Access to publications and terminology	v	Customizing system requirements search	3
Accessibility	vii	Chapter 3. Compatibility specifications	5
Technical training	vii	Chapter 4. Known issues	7
Support information	vii	Index	9
Statement of Good Security Practices.	vii	Notices	11
Chapter 1. IBM Security Directory Server			
overview	1		
Installation information.	1		
What's new in this release	1		

About this publication

IBM® Security Directory Server, previously known as IBM Tivoli® Directory Server, is an IBM implementation of Lightweight Directory Access Protocol for the following operating systems:

- Microsoft Windows
- AIX®
- Linux (System x®, System z®, System p®, and System i®)
- Solaris
- Hewlett-Packard UNIX (HP-UX) (Itanium)

IBM Security Directory Server Product Overview provides information about new features in the release.

IBM Security Directory Server Product Overview also includes getting started information, release information, and the list of standards that are implemented in the release. It also includes the minimum hardware and software requirements for IBM Security Directory Server and its related software.

Access to publications and terminology

This section provides:

- A list of publications in the “IBM Security Directory Server library.”
- Links to “Online publications” on page vi.
- A link to the “IBM Terminology website” on page vi.

IBM Security Directory Server library

The following documents are available in the IBM Security Directory Server library:

- *IBM Security Directory Server, Version 6.3.1.5 Product Overview*, GC27-6212-01
Provides information about the IBM Security Directory Server product, new features in the current release, and system requirements information.
- *IBM Security Directory Server, Version 6.3.1.5 Quick Start Guide*, GI11-9351-02
Provides help for getting started with IBM Security Directory Server. Includes a short product description and architecture diagram, and a pointer to the product documentation website and installation instructions.
- *IBM Security Directory Server, Version 6.3.1.5 Installation and Configuration Guide*, SC27-2747-02
Contains complete information for installing, configuring, and uninstalling IBM Security Directory Server. Includes information about upgrading from a previous version of IBM Security Directory Server.
- *IBM Security Directory Server, Version 6.3.1.5 Administration Guide*, SC27-2749-02
Contains instructions for administrative tasks through the Web Administration tool and the command line.
- *IBM Security Directory Server, Version 6.3.1.5 Reporting Guide*, SC27-6531-00
Describes the tools and software for creating reports for IBM Security Directory Server.

- *IBM Security Directory Server, Version 6.3.1.5 Command Reference, SC27-2753-02*
Describes the syntax and usage of the command-line utilities included with IBM Security Directory Server.
- *IBM Security Directory Server, Version 6.3.1.5 Server Plug-ins Reference , SC27-2750-02*
Contains information about writing server plug-ins.
- *IBM Security Directory Server, Version 6.3.1.5 Programming Reference, SC27-2754-02*
Contains information about writing Lightweight Directory Access Protocol (LDAP) client applications in C and Java™.
- *IBM Security Directory Server, Version 6.3.1.5 Performance Tuning and Capacity Planning Guide, SC27-2748-02*
Contains information about tuning the directory server for better performance. Describes disk requirements and other hardware requirements for directories of different sizes and with various read and write rates. Describes known working scenarios for each of these levels of directory and the disk and memory used; also suggests rules of thumb.
- *IBM Security Directory Server, Version 6.3.1.5 Troubleshooting Guide, GC27-2752-02*
Contains information about possible problems and corrective actions that can be taken before you contact IBM Software Support.
- *IBM Security Directory Server, Version 6.3.1.5 Error Message Reference, GC27-2751-02*
Contains a list of all warning and error messages associated with IBM Security Directory Server.

Online publications

IBM posts product publications when the product is released and when the publications are updated at the following locations:

IBM Security Directory Server documentation website

The <http://pic.dhe.ibm.com/infocenter/tivihelp/v2r1/topic/com.ibm.IBMDS.doc/welcome.htm> site displays the documentation welcome page for this product.

IBM Security Systems Documentation Central and Welcome page

IBM Security Systems Documentation Central provides an alphabetical list of all IBM Security Systems product documentation. You can also find links to the product documentation for specific versions of each product.

Welcome to IBM Security Systems documentation provides and introduction to, links to, and general information about IBM Security Systems documentation.

IBM Publications Center

The <http://www-05.ibm.com/e-business/linkweb/publications/servlet/pbi.wss> site offers customized search functions to help you find all the IBM publications you need.

IBM Terminology website

The IBM Terminology website consolidates terminology for product libraries in one location. You can access the Terminology website at <http://www.ibm.com/software/globalization/terminology>.

Accessibility

Accessibility features help users with a physical disability, such as restricted mobility or limited vision, to use software products successfully. With this product, you can use assistive technologies to hear and navigate the interface. You can also use the keyboard instead of the mouse to operate all features of the graphical user interface.

For more information, see the Accessibility Appendix in the *IBM Security Directory Server Product Overview*.

Technical training

For technical training information, see the following IBM Education website at <http://www.ibm.com/software/tivoli/education>.

Support information

IBM Support assists with code-related problems and routine, short duration installation or usage questions. You can directly access the IBM Software Support site at <http://www.ibm.com/software/support/probsub.html>.

IBM Security Directory Server Troubleshooting Guide provides details about:

- What information to collect before you contact IBM Support.
- The various methods for contacting IBM Support.
- How to use IBM Support Assistant.
- Instructions and problem-determination resources to isolate and fix the problem yourself.

Note: The **Community and Support** tab on the product information center can provide additional support resources.

Statement of Good Security Practices

IT system security involves protecting systems and information through prevention, detection, and response to improper access from within and outside your enterprise. Improper access can result in information being altered, destroyed, misappropriated, or misused or can result in damage to or misuse of your systems, including for use in attacks on others. No IT system or product should be considered completely secure and no single product, service or security measure can be completely effective in preventing improper use or access. IBM systems, products and services are designed to be part of a comprehensive security approach, which will necessarily involve additional operational procedures, and may require other systems, products or services to be most effective. IBM DOES NOT WARRANT THAT ANY SYSTEMS, PRODUCTS OR SERVICES ARE IMMUNE FROM, OR WILL MAKE YOUR ENTERPRISE IMMUNE FROM, THE MALICIOUS OR ILLEGAL CONDUCT OF ANY PARTY.

Chapter 1. IBM Security Directory Server overview

You can use IBM Security Directory Server to provide a trusted identity data infrastructure for authentication.

IBM Security Directory Server provides a server that stores directory information using a DB2 database. It also provides a proxy server for routing LDAP operations to directory servers with database. IBM Security Directory Server provides client utilities and graphical user interfaces (GUI), such as Instance Administration Tool (**idsxinst**) and Configuration Tool (**idsxcfg**), to manage servers.

IBM Security Directory Server provides the following features:

- A powerful and authoritative enterprise directory infrastructure that is a critical enabler for enterprise security.
- An important part of the IBM Security Integrated Identity Management portfolio. It plays a key role in building the enterprise identity data infrastructure for applications such as identity management, portals, and web services.
- The default directory for WebSphere Application Server and Portal, IBM Security Identity Manager and Access Manager, as well as the AIX operating system.

Installation information

Use the links provided here to install IBM Security Directory Server service stream enhancement 6.3.1.5.

Use IBM Installation Manager to install IBM Security Directory Server 6.3.1.5 on Microsoft Windows operating systems. Follow the instructions in the section, Installing fix packs with IBM Installation Manager.

Use the operating system utilities and scripts to install IBM Security Directory Server 6.3.1.5 on AIX, Linux, and Solaris systems. Follow the instructions in the section, Installing fix packs with native scripts.

Use the information in the README file in the fix pack archive to complete the installation.

What's new in this release

Cognos-based audit reporting

The Cognos reporting package is provided along with the following ready-to-use static reports:

- Configuration Changes Audit Report
- LDAP Authentication Audit Report
- LDAP Password Policy Violation Report
- Long-Running Searches Report
- User Activity Audit Report

In addition to these ready-to-use reports, you can also generate custom audit reports by using Cognos® Workspace Advanced.

Pass-through authentication improvements

Pass-through authentication is now improved to support 1:N mapping. Users from all the pass-through authentication directory servers can be stored in a single user container of IBM Security Directory Server. The server correctly identifies the pass-through authentication directory that corresponds to the authenticating user and delegates the authentication to that directory.

Support for pass-through authentication over SSL

You can configure pass-through authentication over SSL. You must meet the described requirements for this configuration.

LDAPSync

The LDAPSync solution provides both migration and synchronization services from one or more source systems, such as Sun Directory Server and Active Directory, to a target IBM Security Directory Server. The LDAPSync solution replaces the deprecated Active Directory synchronization.

Chapter 2. System requirements

You must choose a computer that meets the minimum system requirements for the installation of IBM Security Directory Server.

You can use the Software Product Compatibility Reports at <http://pic.dhe.ibm.com/infocenter/prodguid/v1r0/clarity/index.html> to view the following information about IBM Security Directory Server:

- Operating systems
- Prerequisites
- Hypervisors
- Translations
- Detailed system requirements
- Hardware requirements
- End of service

You can view the detailed system requirements for IBM Security Directory Server on various operating systems at the following links:

AIX <http://pic.dhe.ibm.com/infocenter/prodguid/v1r0/clarity-reports/report/html/softwareReqsForProduct?deliverableId=1295861961251&osPlatform=AIX>

HP-UX (Itanium)

<http://pic.dhe.ibm.com/infocenter/prodguid/v1r0/clarity-reports/report/html/softwareReqsForProduct?deliverableId=1295861961251&osPlatform=HP>

Linux <http://pic.dhe.ibm.com/infocenter/prodguid/v1r0/clarity-reports/report/html/softwareReqsForProduct?deliverableId=1295861961251&osPlatform=Linux>

Solaris

<http://pic.dhe.ibm.com/infocenter/prodguid/v1r0/clarity-reports/report/html/softwareReqsForProduct?deliverableId=1295861961251&osPlatform=Solaris>

Microsoft Windows

<http://pic.dhe.ibm.com/infocenter/prodguid/v1r0/clarity-reports/report/html/softwareReqsForProduct?deliverableId=1295861961251&osPlatform=Windows>

Customizing system requirements search

You can customize your system requirements search for IBM Security Directory Server, that match your filter criteria.

Procedure

1. Open a web browser and enter the <http://pic.dhe.ibm.com/infocenter/prodguid/v1r0/clarity/index.html> web address.
2. Select the required report option for which you want to view the report. You can choose one of the following options:
 - Operating systems

- Prerequisites
 - Hypervisors
 - Translations
 - Detailed system requirements
 - Hardware requirements
 - End of service
3. To generate a report for detailed system requirements, select the **Create a report** link for the search criteria, Detailed system requirements.
 4. On the **Detailed system requirements for a specific product** page, provide the following values:
 - a. In the **Full or partial product name** field, enter the product name, Security Directory Server.
 - b. From the **Search results** list, select the appropriate product name.
 - c. From the **Version** list, select the appropriate version number.
 - d. For **Scope of report**, select the appropriate option.
 - e. From the **Operating system family** list, select an appropriate operating system.
 - f. Click **Submit**.

Results

The Software Product Compatibility Reports website generates a report that match your search criteria.

Chapter 3. Compatibility specifications

IBM Security Directory Server implements a set of RFC standards that provides compatibility with other LDAP servers.

Table 1. The list of RFCs implemented in IBM Security Directory Server

RFC standards
RFC 1274 The COSINE and Internet X.500 Schema
RFC 1777 Lightweight Directory Access Protocol (V2)
RFC 1778 String Representation of Standard Attribute Syntax
RFC 1779 String Representation of Distinguished Names
RFC 1823 LDAP Application Program Interface (V2)
RFC 2052 A DNS RR for specifying the location of services (DNS SRV)
RFC 2219 Use of DNS Aliases for Network Services
RFC 2222 Simple Authentication and Security Layer (SASL)
RFC 2247 Using Domains in LDAP/X.500 Distinguished Names
RFC 2251 Lightweight Directory Access Protocol (V3)
RFC 2252 Lightweight Directory Access Protocol (V3): Attribute Syntax Definitions
RFC 2253 Lightweight Directory Access Protocol (V3): UTF-8 String Representation of Distinguished Names
RFC 2254 The String Representation of LDAP Search Filters
RFC 2255 The LDAP URL Format
RFC 2256 A Summary of the X.500(96) User Schema for use with LDAPv3
RFC 2596 Use of Language code in LDAP
RFC 2696 LDAP Control Extension for Simple Paged Results Manipulation
RFC 2829 Authentication Methods for LDAP RFC 2830, (V3) Extension for Transport Layer Security (TLS)
RFC 2831 Using DIGEST authentication as a SASL Mechanism
RFC 2849 The LDAP Data Interchange Format (LDIF) - Technical Specification
RFC 2891 LDAP Control Extension for Server Side Sorting of Search Results
The Open Group schema for liPerson and liOrganization (NAC/LIPS)
RFC 2307 (Directory Schema Only) - Posix Unix Account authentication
RFC 3673 All Operational Attributes
RFC 3674 Feature Discovery in LDAP
RFC 4370 Lightweight Directory Access Protocol (LDAP) Proxied Authorization Control

Chapter 4. Known issues

For a list of known issues with IBM Security Directory Server 6.3.1.5, see the technical note.

The technical note at <http://www-01.ibm.com/support/docview.wss?uid=swg21674565> lists all of the known issues.

Index

A

accessibility vii

D

directory server, installation
 general information 1
directory server, new features
 general information 1
directory server, overview
 general information 1
directory server, system requirements
 general information 3
 search customization 3

E

education vii

I

IBM
 Software Support vii
 Support Assistant vii
IBM Security Directory Server
 overview 1
IBM Security Directory Server, installation
 general information 1
IBM Security Directory Server, new
 features
 general information 1
IBM Security Directory Server, system
 requirements
 general information 3
 search customization 3

O

online
 publications v
 terminology v

P

problem-determination vii
publications
 accessing online v
 list of for this product v

S

system requirements
 custom search 3
 general information 3

T

terminology v
training vii
troubleshooting vii

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