

IBM Security Directory Suite  
8.0.1

*Product Overview*



**Note**

Before using this information and the product it supports, read the general information under [“Notices”](#) on page 17.

**Edition notice**

**Note:** This edition applies to version 8.0.1.x of *IBM Security Directory Suite* (product number 5725-Y17 ) and to all subsequent releases and modifications until otherwise indicated in new editions.

© **Copyright International Business Machines Corporation 2013, 2015.**

US Government Users Restricted Rights – Use, duplication or disclosure restricted by GSA ADP Schedule Contract with IBM Corp.

---

# Contents

- About this publication.....V**
  - Accessibility ..... V
  - Statement of Good Security Practices..... V
  
- Chapter 1. IBM Security Directory Suite overview..... 1**
  
- Chapter 2. IBM Security Directory Suite editions..... 3**
  
- Chapter 3. What's new in this release.....5**
  
- Chapter 4. Installation package information..... 7**
  
- Chapter 5. Roadmap for getting started with virtual appliance..... 9**
  
- Chapter 6. Known issues.....13**
  
- Index..... 15**
  
- Notices.....17**
  - Trademarks..... 18
  - Terms and conditions for product documentation..... 18



## About this publication

---

IBM® Security Directory Suite, previously known as IBM Security Directory Server or IBM Tivoli® Directory Server, is an IBM implementation of the Lightweight Directory Access Protocol.

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

*IBM Security Directory Suite 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 Suite and its related software.

## 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 "Accessibility features for IBM Security Directory Suite" in the [IBM Knowledge Center](#).

## 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 Suite overview

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

IBM Security Directory Suite provides the following features:

- A powerful and authoritative enterprise directory infrastructure that is a critical enabler for enterprise security.
- A virtual appliance to reduce the overall Time To Value (TTV) and greatly reduce the deployment time of the product.
- A server that stores directory information by using a DB2® database.
- Client and server utilities and graphical user interfaces (GUI) to manage servers.

IBM Security Directory Suite, Version 8.0.1.x includes the following components:

- Directory Server
- Web Administration Tool
- Federated Directory Server with Directory Server as target
- Federated Directory Server with SCIM target
- System for Cross-Domain Identity Management (SCIM) service
- Virtual Directory

## Virtual appliance overview

A virtual appliance is a pre-configured virtual desktop environment. The IBM Security Directory Suite virtual appliance is a network appliance-based directory services solution that consists of software that is installed on a virtual machine.

The following features are included in the IBM Security Directory Suite, Version 8.0.1.x virtual appliance:

- A dashboard for viewing system status such as system notifications, cluster status, component and application status, deployment statistics, and disk usage.
- Analysis and diagnostics tools such as memory statistics, CPU usage, and performance metrics and service statistics for IBM Security Directory Suite.
- Control of system settings such as host name, date or time, and network settings.
- Graphical management interface for configuring most of the features.
- Centralized management of IBM Security Directory Suite configuration settings and log files.
- Management of application server certificates.
- Custom File Management feature on the **Appliance Dashboard** to upload, download, or updating files on the virtual appliance.
- Update Property feature on the **Appliance Dashboard** to update Directory Server, Federated Directory Server, and SCIM properties.





---

## Chapter 2. IBM Security Directory Suite editions

IBM Security Directory Suite is available in three editions.

### **Limited Edition**

This edition contains:

- Directory Server with RDBM instance capability only
- Directory Server Web Administration Tool

### **Standard Edition**

This edition includes everything provided in the Limited Edition as well as the following features:

- Proxy server
- Pass-through authentication
- Ability to record last successful authentication time stamp in user entries
- Advanced password policy rules

### **Enterprise Edition**

This edition includes everything provided in the Standard Edition as well as the following features:

- Federated Directory Server
- SCIM service
- Virtual Directory

You must purchase IBM Security Directory Suite Standard or Enterprise Editions explicitly through IBM Passport Advantage®.

You can activate your license by using the IBM Security Directory Suite virtual appliance console. See [Activating IBM Security Directory Suite license](#).



---

## Chapter 3. What's new in this release

Read about the new features and enhancements in IBM Security Directory Suite, Version 8.0.1.x.

### Virtual Directory

Virtual Directory is an advanced proxy that can aggregate identity data across LDAP directories from different vendors to create a single point of access. All of the data remains in the original source and is fetched or updated at real time.

For more information, see [Virtual Directory administration](#).

To configure Virtual Directory, see [Virtual Directory Configuration](#).

### REST APIs

You can develop custom applications by using the REST application programming interfaces (APIs). The REST APIs are available so that you can administer tasks outside the user interface.

You can download or view the REST API documentation for virtual appliance.

See [Virtual appliance REST APIs](#).

### List firmware

The **list\_firmware** command is added to the firmware upgrade commands under `firmware_update` folder in the virtual appliance command-line interface.

The **list\_firmware** command lists firmware updates that are available at the download location.

### Dynamic password reset

In previous releases, the Directory Server must be stopped before you run the **idsdnpw** command to change the admin password, and then restarted after the operation.

In IBM Security Directory Suite, Version 8.0.1.x, the **idsdnpw** command is enhanced so that the admin password can be changed while the Directory Server is running.

Use the following new parameter:

#### **-P port**

Specifies the port number of the Directory Server instance.

This parameter is optional. If the port number is not specified, 389 is used as the default port number.

### Remote bulkload utility

If you configured a remote DB2 database with Directory Server in a virtual appliance environment, you can use the remote bulkload scripts to load data from an LDIF file into the remote database for high-speed data transfer.

See [Loading data from an LDIF file into a remote DB2 database](#).

### LDAP extended operation to restart replication

The option to **restart** replication is added to the **controlrepl** operation of the **ldapexop** command **-op** parameter.

The usage for the control replication operation is:

```
idsldapexop -op controlrepl -action -action {suspend | resume | replnow | restart} -ra agreementDn
```

or

```
idsldapexop -op controlrepl -action -action {suspend | resume | replnow | restart} -rc contextDn
```

## XenServer support

XenServer, Version 6.5 is now supported as a virtual hypervisor for virtual appliance.

See [XenServer support](#) and [Installing the virtual appliance on XenServer](#).

## Support mode activation

When you raise a Problem Management Record (PMR), the IBM Support team might need to address software maintenance or enhancements on the virtual appliance. A feature is provided where support mode can be activated on the virtual appliance by applying a key that is provided by IBM Support.

See [Activating support mode on virtual appliance](#).

## FIPS mode

You can enable FIPS 140-2 mode when you install IBM Security Directory Suite virtual appliance. For procedure to enable FIPS, see steps 5 and 6 in the topic [Setting up the virtual appliance](#). For more information about FIPS mode in virtual appliance, see [FIPS compliance](#) and [FIPS commands](#).

## Admin user account lockout

The virtual appliance admin user account is locked out after 10 failed login attempts to log in to the virtual appliance console or the command-line interface. The account is unlocked automatically after 60 minutes. You can use the **unlockadmin** command to unlock the admin user immediately, when the admin user is locked after 10 failed attempts to log in to the virtual appliance console. See [Unlocking a locked admin user](#) and **unlockadmin**.

## idsldapreplcfg enhancement

The option `-add serverType` to add a server of a specific type to the existing replication topology is provided. See [idsldapreplcfg](#).

## Other enhancements

- When you activate the Enterprise Edition, autostart is enabled and the Federated Directory Server and Federated Directory Server with SCIM as target are started automatically.
- Federated Directory Server flow logs and LDAPSsync logs can be downloaded from the **Custom File Management** page. The logs are available under the folder **CustomOut > FDS\_logs**.
- From version IBM Security Directory Suite, Version 8.0.1 onwards the appliance comes with a preconfigured Web Administration Tool with the default instance running in the virtual appliance.

---

## Chapter 4. Installation package information

Download the appropriate IBM Security Directory Suite installation packages from the IBM Passport Advantage website.

IBM Security Directory Suite, Version 8.0.1.x is available on the [IBM Passport Advantage](#) website in the form of eAssembly packages for supported operating systems.

To download the appropriate installation packages, see the [IBM Security Directory Suite, Version 8.0.1.x - Download Document](#).

The Download Document contains part numbers for the following software:

### **IBM Security Directory Suite, Version 8.0.1.x ISO**

IBM Security Directory Suite, Version 8.0.1.x ISO comes with following software pre-installed:

- DB2
- GSKit
- IBM SDK Java™ Technology Edition

After you install the ISO package, the following components are ready to use:

- Directory Server
- Federated Directory Server
- SCIM service

### **WebSphere® Application Server, Version 8.5.5**

If you want to deploy Directory Server Web Administration Tool in WebSphere Application Server, you can use this part number to download WebSphere Application Server, Version 8.5.5 from Passport Advantage. For more information, see the [IBM Knowledge Center for WebSphere Application Server](#).

### **DB2, Version 10.5.0.3**

If you want to configure the Directory Server instance in virtual appliance with a remote DB2 database, you can use this part number to download DB2, Version 10.5.0.3 from Passport Advantage. However, the minimum supported version that you can use with IBM Security Directory Suite, Version 8.0.1.x is DB2, Version 10.1.0.2.

You can download and install the latest fix pack for DB2 from IBM Support portal at the following location: [Download DB2 Fix Packs by version](#).

For more information, see the [IBM Knowledge Center for DB2](#).

### **GSKit, Version 8.0.50.xx**

If you want to generate your own Directory Server instance stash files, you can use this part number to download GSKit, Version 8.0.50.xx, which is shipped with IBM Security Directory Suite, Version 8.0.1.x from Passport Advantage. However, the minimum supported version that you can use with IBM Security Directory Suite, Version 8.0.1.x is GSKit, Version 8.0.14.24.

### **IBM Cognos® Business Intelligence, Version 10.2.1**

If you want to integrate Directory Server instance reporting with IBM Cognos, you can use this part number to download IBM Cognos Business Intelligence, Version 10.2.1 from Passport Advantage. See the [IBM Knowledge Center for IBM Cognos Business Intelligence](#).

### **IBM Connections 5.0**

If you have IBM Security Directory Suite Standard or Enterprise Edition, you can use this part number to download IBM Connections 5.0 from Passport Advantage. It replaces the Whitepages application that was provided with earlier releases of Directory Server. See the [IBM Knowledge Center for IBM Connections](#).

### **IBM Tivoli Directory Integrator 7.1.1**

If you have IBM Security Directory Suite Standard or Enterprise Edition, you can use this part number to download IBM Tivoli Directory Integrator 7.1.1 from Passport Advantage. See the [IBM Knowledge Center for IBM Tivoli Directory Integrator 7.1.1](#).

### **IBM Security Directory Integrator 7.2**

If you have IBM Security Directory Suite Enterprise Edition, you can use this part number to download IBM Security Directory Integrator 7.2 from Passport Advantage. See the [IBM Knowledge Center for IBM Security Directory Integrator 7.2](#).

For installation instructions, see the [Installing](#) section of IBM Knowledge Center for IBM Security Directory Suite.

If you have an earlier version of IBM Security Directory Suite installed, you must do a firmware upgrade to migrate to Version 8.0.1.x. See [Firmware upgrades](#).

If you are migrating from IBM Security Directory Server, Version 6.4 to IBM Security Directory Suite, see [Migration](#).

## Chapter 5. Roadmap for getting started with virtual appliance

Use the roadmap as a reference for IBM Security Directory Suite virtual appliance installation, setup, and initial configuration.

<i>Table 1. Virtual appliance roadmap</i>	
<b>Installation and initial configuration tasks</b>	<b>Reference</b>
Ensure that your system meets the hardware and software requirements.	<a href="#">Hardware and software requirements</a>
Download the installation packages that you require.	<a href="#">Installation package information</a>
Set up the virtual machine.	<a href="#">Setting up the virtual machine</a>
Install the virtual appliance	<a href="#">Installing the virtual appliance</a>
Set up the virtual appliance.	<a href="#">Setting up the virtual appliance</a>
Log onto the virtual appliance console.	<a href="#">Logging on to the virtual appliance console</a>
Activate the IBM Security Directory Suite license. This step is required to use premium features if you purchased the license for the Standard or Enterprise Edition.	<a href="#">Activating IBM Security Directory Suite license</a>
Access the console panels for the following applications: <ul style="list-style-type: none"> <li>• Web Administration Tool</li> <li>• Federated Directory Server with Directory Server as target (available in Enterprise Edition only)</li> <li>• Federated Directory Server with SCIM as target (available in Enterprise Edition only)</li> </ul>	<a href="#">Accessing IBM Security Directory Suite consoles from the Quick Links widget</a>

### Migration roadmap

If you are migrating from IBM Security Directory Server, Version 6.4 to IBM Security Directory Suite, you can use the following instructions for migration.

**Note:** If you have an earlier version of IBM Security Directory Suite installed, you must do a firmware upgrade to migrate to a later release, for example from IBM Security Directory Suite version 8.0 to 8.0.1. See [Firmware upgrades](#).

<i>Table 2. Migration roadmap</i>	
<b>Migration tasks</b>	<b>Header</b>
Back up the active partition of the virtual appliance.	<a href="#">Backing up the virtual appliance</a>
Migrate a Directory Server instance.	<a href="#">Migrating a Directory Server instance</a>
Migrate Federated Directory Server.	<a href="#">Migrating Federated Directory Server</a>

<i>Table 2. Migration roadmap (continued)</i>	
<b>Migration tasks</b>	<b>Header</b>
Configure virtual appliance Directory Server to use a remote DB2 database.	<a href="#">Configuring the remote DB2</a>
Configure SSL certificates for Directory Server, Federated Directory Server, Web Administration Tool, and SCIM service.	<a href="#">Managing SSL certificates</a>

## Optional configuration tasks

You can use the instructions at the links provided in the following table to complete additional configuration for virtual appliance, if required.

<i>Table 3. Optional tasks for initial configuration of virtual appliance</i>	
<b>Optional configuration tasks</b>	<b>Reference</b>
Change the backend Directory Server type. The default server that is configured is RDBMS. If you activated the license for the Standard or Enterprise Edition, you can change the server type to proxy.	<a href="#">Changing the server type</a>
Start or stop the following server components: <ul style="list-style-type: none"> <li>• Directory Server</li> <li>• Directory Administration Server</li> <li>• Directory Server Web Administration Tool</li> <li>• Federated Directory Server with Directory Server as target (available only in Enterprise Edition)</li> <li>• Federated Directory Server with SCIM as target (available only in Enterprise Edition)</li> <li>• SCIM Service (available only in Enterprise Edition)</li> </ul>	<a href="#">Managing servers with the Server Control widget</a>
Import server or client certificates to enable SSL connection with another entity for the IBM Security Directory Suite components.	<a href="#">Managing SSL certificates</a>
Change the administrator DN credentials for Directory Server.	<a href="#">Changing the administrator DN credentials</a>
Configure or update properties for the IBM Security Directory Suite components.	<a href="#">Configuring properties</a>
Configure a Directory Server instance or database instance by using the virtual appliance command-line interface	<a href="#">Instance configuration</a>

## Virtual Directory configuration roadmap

See [Virtual Directory configuration roadmap](#).



## Virtual appliance documentation

You can refer to the following sections of documentation that are related to virtual appliance in the IBM Knowledge Center for IBM Security Directory Suite.

- [IBM Security Directory Suite Overview](#)
- [Virtual appliance installation](#)
- [Virtual appliance configuration](#)
- [Virtual appliance administration](#)
- [Virtual appliance troubleshooting](#)
- [Virtual appliance command reference](#)



---

## Chapter 6. Known issues

For a list of known issues with IBM Security Directory Suite, Version 8.0.1.x, see the technical note and troubleshooting information.

- [IBM Security Directory Suite 8.0.1.x Known Issues](#)
- [Virtual appliance troubleshooting](#)
- [Directory Server troubleshooting](#)
- [Remote DB2 with virtual appliance limitations and issues](#)
- [Known limitations in the Virtual Directory and Virtual Directory troubleshooting](#)
- [Federated Directory Server known issues](#)



---

# Index

## A

accessibility [v](#)



## Notices

---

This information was developed for products and services offered in the US. This material might be available from IBM in other languages. However, you may be required to own a copy of the product or product version in that language in order to access it.

IBM may not offer the products, services, or features discussed in this document in other countries. Consult your local IBM representative for information on the products and services currently available in your area. Any reference to an IBM product, program, or service is not intended to state or imply that only that IBM product, program, or service may be used. Any functionally equivalent product, program, or service that does not infringe any IBM intellectual property right may be used instead. However, it is the user's responsibility to evaluate and verify the operation of any non-IBM product, program, or service.

IBM may have patents or pending patent applications covering subject matter described in this document. The furnishing of this document does not grant you any license to these patents. You can send license inquiries, in writing, to:

*IBM Director of Licensing  
IBM Corporation  
North Castle Drive, MD-NC119  
Armonk, NY 10504-1785  
US*

For license inquiries regarding double-byte character set (DBCS) information, contact the IBM Intellectual Property Department in your country or send inquiries, in writing, to:

*Intellectual Property Licensing  
Legal and Intellectual Property Law  
IBM Japan Ltd.  
19-21, Nihonbashi-Hakozakicho, Chuo-ku  
Tokyo 103-8510, Japan*

INTERNATIONAL BUSINESS MACHINES CORPORATION PROVIDES THIS PUBLICATION "AS IS" WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESS OR IMPLIED, INCLUDING, BUT NOT LIMITED TO, THE IMPLIED WARRANTIES OF NON-INFRINGEMENT, MERCHANTABILITY OR FITNESS FOR A PARTICULAR PURPOSE. Some jurisdictions do not allow disclaimer of express or implied warranties in certain transactions, therefore, this statement may not apply to you.

This information could include technical inaccuracies or typographical errors. Changes are periodically made to the information herein; these changes will be incorporated in new editions of the publication. IBM may make improvements and/or changes in the product(s) and/or the program(s) described in this publication at any time without notice.

Any references in this information to non-IBM websites are provided for convenience only and do not in any manner serve as an endorsement of those websites. The materials at those websites are not part of the materials for this IBM product and use of those websites is at your own risk.

IBM may use or distribute any of the information you provide in any way it believes appropriate without incurring any obligation to you.

Licensees of this program who wish to have information about it for the purpose of enabling: (i) the exchange of information between independently created programs and other programs (including this one) and (ii) the mutual use of the information which has been exchanged, should contact:

*IBM Director of Licensing  
IBM Corporation  
North Castle Drive, MD-NC119  
Armonk, NY 10504-1785  
US*

Such information may be available, subject to appropriate terms and conditions, including in some cases, payment of a fee.

The licensed program described in this document and all licensed material available for it are provided by IBM under terms of the IBM Customer Agreement, IBM International Program License Agreement or any equivalent agreement between us.

The performance data discussed herein is presented as derived under specific operating conditions. Actual results may vary.

The client examples cited are presented for illustrative purposes only. Actual performance results may vary depending on specific configurations and operating conditions.

The performance data and client examples cited are presented for illustrative purposes only. Actual performance results may vary depending on specific configurations and operating conditions.

Information concerning non-IBM products was obtained from the suppliers of those products, their published announcements or other publicly available sources. IBM has not tested those products and cannot confirm the accuracy of performance, compatibility or any other claims related to non-IBM products. Questions on the capabilities of non-IBM products should be addressed to the suppliers of those products.

Statements regarding IBM's future direction or intent are subject to change or withdrawal without notice, and represent goals and objectives only.

All IBM prices shown are IBM's suggested retail prices, are current and are subject to change without notice. Dealer prices may vary.

This information is for planning purposes only. The information herein is subject to change before the products described become available.

This information contains examples of data and reports used in daily business operations. To illustrate them as completely as possible, the examples include the names of individuals, companies, brands, and products. All of these names are fictitious and any similarity to actual people or business enterprises is entirely coincidental.

#### COPYRIGHT LICENSE:

This information contains sample application programs in source language, which illustrate programming techniques on various operating platforms. You may copy, modify, and distribute these sample programs in any form without payment to IBM, for the purposes of developing, using, marketing or distributing application programs conforming to the application programming interface for the operating platform for which the sample programs are written. These examples have not been thoroughly tested under all conditions. IBM, therefore, cannot guarantee or imply reliability, serviceability, or function of these programs. The sample programs are provided "AS IS", without warranty of any kind. IBM shall not be liable for any damages arising out of your use of the sample programs.

Each copy or any portion of these sample programs or any derivative work must include a copyright notice as follows:

© (your company name) (year).

Portions of this code are derived from IBM Corp. Sample Programs.

© Copyright IBM Corp. \_enter the year or years\_.

## Trademarks

---

IBM, the IBM logo, and [ibm.com](http://ibm.com) are trademarks or registered trademarks of International Business Machines Corp., registered in many jurisdictions worldwide. Other product and service names might be trademarks of IBM or other companies. A current list of IBM trademarks is available on the web at "Copyright and trademark information" at [www.ibm.com/legal/copytrade.shtml](http://www.ibm.com/legal/copytrade.shtml).

## Terms and conditions for product documentation

---

Permissions for the use of these publications are granted subject to the following terms and conditions.



## **Applicability**

These terms and conditions are in addition to any terms of use for the IBM website.

## **Personal use**

You may reproduce these publications for your personal, noncommercial use provided that all proprietary notices are preserved. You may not distribute, display or make derivative work of these publications, or any portion thereof, without the express consent of IBM.

## **Commercial use**

You may reproduce, distribute and display these publications solely within your enterprise provided that all proprietary notices are preserved. You may not make derivative works of these publications, or reproduce, distribute or display these publications or any portion thereof outside your enterprise, without the express consent of IBM.

## **Rights**

Except as expressly granted in this permission, no other permissions, licenses or rights are granted, either express or implied, to the publications or any information, data, software or other intellectual property contained therein.

IBM reserves the right to withdraw the permissions granted herein whenever, in its discretion, the use of the publications is detrimental to its interest or, as determined by IBM, the above instructions are not being properly followed.

You may not download, export or re-export this information except in full compliance with all applicable laws and regulations, including all United States export laws and regulations.

IBM MAKES NO GUARANTEE ABOUT THE CONTENT OF THESE PUBLICATIONS. THE PUBLICATIONS ARE PROVIDED "AS-IS" AND WITHOUT WARRANTY OF ANY KIND, EITHER EXPRESSED OR IMPLIED, INCLUDING BUT NOT LIMITED TO IMPLIED WARRANTIES OF MERCHANTABILITY, NON-INFRINGEMENT, AND FITNESS FOR A PARTICULAR PURPOSE.







GC27-6212-01

