

IBM Security Verify Governance Identity
Manager

*PostgreSQL Adapter Installation and
Configuration Guide*



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Chapter 1. Overview

An adapter is an interface between a managed resource and the Identity server. The PostgreSQL Adapter enables communication between the Identity server and the PostgreSQL.

Adapters can be installed on the managed resource. The Identity server manages access to the resource by using the security system. Adapters function as trusted virtual administrators on the target operating system. The adapter creates, suspends, restores user accounts, and other functions that administrators run manually. The adapter runs as a service, independently of whether you are logged on to the Identity server.

Features

The adapter automates several administrative and management tasks.

- Reconciling user accounts and other support data such as roles
- Adding and modifying user accounts
- Modifying user account attributes
- Modifying user account password
- Suspending, and restoring user accounts

Related concepts

Architecture

Several components are involved in running and using the adapter. Install all these components so that the adapter can function correctly.

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- Dispatcher
- Security Directory Integrator connector
- IBM® Security Verify Adapter profile

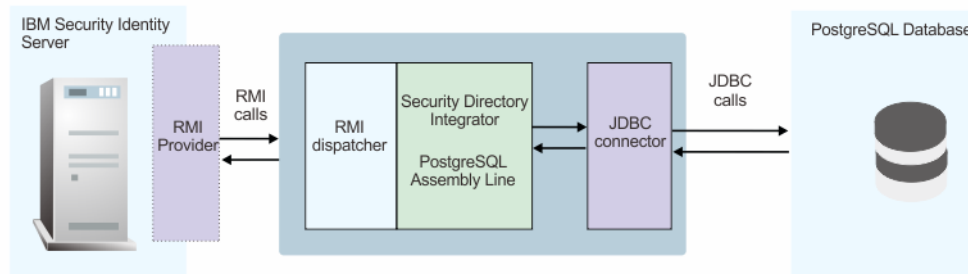


Figure 1. Architecture overview of the adapter

Related concepts

Features

The adapter automates several administrative and management tasks.

Chapter 2. Planning

Installing and configuring the adapter involves several steps that you must complete in a specific sequence. Follow the roadmap for the main tasks.

Use the Preinstallation roadmap to prepare the environment.

Task	For more information, see
Verify that your environment meets the software and hardware requirements for the adapter.	“Prerequisites” on page 3.
Obtain the installation software.	Software download.
Obtain the necessary information for the installation and configuration.	“Installation worksheet” on page 5.

Use the Installation and configuration roadmap to complete the actual installation and configuration of the adapter.

Task	For more information, see
Install the dispatcher.	“Installing the dispatcher” on page 7.
Install the connector.	“Installing the adapter binaries or connector” on page 8
Import the adapter profile into the Identity server.	Importing the adapter profile
Create an adapter service.	Creating an adapter service
Configure the adapter.	Chapter 5, “Configuring,” on page 55

Prerequisites

Verify that your environment meets the software and hardware requirements for the adapter.

Table 3 on [page 3](#) identifies the software and operating system prerequisites for the adapter installation.

Ensure that you install the adapter on the same workstation as the IBM Security Directory Integrator server.

Prerequisite	Description
Directory Integrator	<ul style="list-style-type: none">• IBM Security Directory Integrator Version 7.1.1 + 7.1.1-TIV-TDI-FP0004 + 7.2.0-ISS-SDI-LA0008• IBM Security Directory Integrator Version 7.2 + Fix Pack 4 See the adapter release notes for the latest information on supported component versions.

Table 3. Prerequisites to install the adapter (continued)

Prerequisite	Description
Identity server	The following servers are supported: <ul style="list-style-type: none"> Identity server Version 10.0 Identity server Version 10.0 Identity server Version 10.0 See the adapter release notes for the latest information on supported component versions.
PostgreSQL Server	IBM PostgreSQL Server 12.0
PostgreSQL JDBC Driver	JDBC Driver <p>Note: The driver file name is:</p> <ul style="list-style-type: none"> postgresql-42.2.9.jre6.jar
IBM Security Directory Integrator adapters solution directory	The IBM Security Directory Integrator adapters solution directory is a IBM Security Directory Integrator work directory for adapters. See the <i>Dispatcher Installation and Configuration Guide</i> .
System administrator authority	You must have system administrator authority to complete the adapter installation procedure.

Install the PostgreSQL Adapter and the appropriate PostgreSQL JDBC drivers on the same workstation as the IBM Security Directory Integrator.

For information about the prerequisites and supported operating systems for IBM Security Directory Integrator, see the *IBM Security Directory Integrator Administrator Guide*.

Related concepts

[Software downloads](#)

Download the software through your account at the IBM Passport Advantage website.

[Installation worksheet](#)

The installation worksheet lists the information that is required to install and configure the adapter. Complete this worksheet before you start the installation procedure for ease of reference. Make a copy of the worksheet for each adapter instance you install.

Software downloads

Download the software through your account at the IBM Passport Advantage website.

Go to [IBM Passport Advantage](#).

See the corresponding *IBM Security Verify Identity*, *IBM Security Verify Governance Identity Manager*, *IBM Security Privileged Identity Manager Download Document* for instructions.

Note:

You can also obtain additional adapter information from IBM Support.

Related concepts

[Prerequisites](#)

Verify that your environment meets the software and hardware requirements for the adapter.

[Installation worksheet](#)

The installation worksheet lists the information that is required to install and configure the adapter. Complete this worksheet before you start the installation procedure for ease of reference. Make a copy of the worksheet for each adapter instance you install.

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<i>Table 4. Required information to install the adapter</i>		
Required information	Description	Value
IBM Security Directory Integrator Home Directory	The <i>ISDI_HOME</i> directory contains the <i>jars/connectors</i> subdirectory which contains the files for the adapters.	If IBM Security Directory Integrator is automatically installed with your IBM Security Verify Identity IBM Security Verify Governance Identity Manager IBM Security Privileged Identity Manager product, the default directory path for IBM Security Directory Integrator is as follows: Windows: <ul style="list-style-type: none"> • <i>drive</i>\Program Files \IBM\SDI\V7.2 UNIX: <ul style="list-style-type: none"> • /opt/IBM/SDI/V7.2
Adapters solution directory	When you install the dispatcher, the adapter prompts you to specify a file path for the adapters solution directory. For more information about the solution directory, see the <i>Dispatcher Installation and Configuration Guide</i> .	The default solution directory is at: Windows <ul style="list-style-type: none"> • <i>drive</i>\Program Files \IBM\SDI\V7.2\ UNIX: <ul style="list-style-type: none"> • /opt/IBM/SDI/V7.2/

Related concepts

Prerequisites

Verify that your environment meets the software and hardware requirements for the adapter.

Software downloads

Download the software through your account at the IBM Passport Advantage website.

Chapter 3. Installing

Installing the adapter mainly involves importing the adapter profile and creating an adapter service. Depending on the adapter, several other tasks can be involved to completely install it.

All IBM Security Directory Integrator based adapters require the Dispatcher for the adapters to function correctly. If the Dispatcher is installed from a previous installation, do not reinstall it unless the Dispatcher is upgraded. See [Installing the dispatcher](#).

Depending on your adapter, the Security Directory Integrator connector might already be installed as part of the Security Directory Integrator product and no further action is required. If the connector is not pre-installed, install it after the Dispatcher.

Installing the dispatcher

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

If you already installed the RMI Dispatcher for another adapter, you do not need to reinstall it.

If you have not yet installed the RMI Dispatcher in the Security Directory Integrator environment, download the Dispatcher installer from the [IBM Passport Advantage](#) website. For more information about the installation, see the *Dispatcher Installation and Configuration Guide*.

Related concepts

Restarting the adapter service

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

Related tasks

Installing the adapter binaries or connector

The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

Installing 3rd party client libraries

Third party client libraries are libraries and/or configuration files that are provided by the target vendor. These 3rd party client libraries must be installed with the adapter. This is not required for all adapters. This topic is not applicable for this adapter.

Setting up the adapter environment

In addition to 3rd party client libraries, some adapters require file system and operating system configuration. This topic is not applicable for this adapter.

Importing the adapter profile

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Importing attribute mapping file

After importing the adapter profile, you must import an attribute map from a profile mapping definition file.

Adding a connector

After you import the adapter profile on the Verify Governance Identity Manager server, add a connector so that Verify Governance Identity Manager server can communicate with the managed resource.

Enabling connectors

After you create a connector, by default it is in a disabled state. You must enable a connector to use it.

Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

Attribute Mapping

Attribute mapping is required to define which target attributes correspond to the Verify Governance Identity Manager account attributes.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

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Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

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The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

Before you begin

- The Dispatcher must be installed.
- Ensure that your sites meets the prerequisite requirements. See [“Prerequisites” on page 3](#).

About this task

The adapter uses the IBM Security Directory Integrator JDBC connector. Follow the steps in the procedure to download and copy the JDBC Connector JAR. As such, you just need to install the Dispatcher. See the *IBM Security Dispatcher Installation and Configuration Guide*.

Procedure

1. Download `postgresql-<version>.jre6.jar` from the PostgreSQL website. Go to <https://mvnrepository.com/artifact/org.postgresql/postgresql/42.2.9.jre6>.
2. Copy the PostgreSQL JDBC driver to the `ISDI_HOME/jars/3rdparty/others` directory.
For example: `postgresql-42.2.9.jre6.jar`
3. Restart the adapter service.

Related concepts

Installing the dispatcher

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Restarting the adapter service

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Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

Related tasks

Installing 3rd party client libraries

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Procedure

Related concepts

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Installing the adapter language package

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Related tasks

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Restarting the adapter service

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The adapter does not exist as an independent service or a process. The adapter is added to the Dispatcher instance, which runs all the adapters that are installed on the same Security Directory Integrator instance.

See the topic about starting, stopping, and restarting the Dispatcher service in the *Dispatcher Installation and Configuration Guide*.

Related concepts

Installing the dispatcher

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

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Importing the adapter profile

An adapter profile defines the types of resources that the Identity server can manage. It is packaged with the IBM Security Verify Adapter. Use the adapter profile to create an adapter service on Identity server and establish communication with the adapter.

Before you begin

- The Identity server is installed and running.
- You have root or administrator authority on the Identity server.
- The file to be imported must be a Java™ archive (JAR) file. The `<Adapter>Profile.jar` file includes all the files that are required to define the adapter schema, account form, service/target form, and profile properties. If necessary, you can extract the files from the JAR file, modify the files, and repackage the JAR file with the updated files. The JAR file for IBM Security Identity Manager is located in the top level folder of the installation package.

About this task

Service definition files are also called adapter profile files.

If the adapter profile is not installed correctly, the adapter cannot function correctly. You cannot create a service with the adapter profile or open an account on the service. You must import the adapter profile again.

Procedure

1. Log on to the Identity server by using an account that has the authority to perform administrative tasks.
2. From the navigation tree, select **Configure System > Manage Service Types**.
The **Manage Service Types** page is displayed.
3. On the **Manage Service Types** page, click **Import**.
The **Import Service Type** page is displayed.
4. On the **Import Service Type** page, complete these steps:
 - a) In the **Service Definition File** field, type the directory location of the `<Adapter>Profile.jar` file, or click **Browse** to locate the file.
For example, if you are installing the IBM Security Verify Adapter for a Windows server that runs Active Directory, locate and import the `ADProfileJAR` file.
 - b) Click **OK** to import the file.

Results

A message indicates that you successfully submitted a request to import a service type.

What to do next

- The import occurs asynchronously, which means it might take some time for the service type to load into the Identity server from the properties files and to be available in other pages. On the **Manage Service Types** page, click **Refresh** to see the new service type. If the service type status is **Failed**, check the log files to determine why the import failed.
- If you receive a schema-related error, see the `trace.log` file for information about it. The `trace.log` file location is specified by the `handler.file.fileDir` property that is defined in the `enRoleLogging.properties` file. The `enRoleLogging.properties` file is in the Identity server `HOME\data` directory. .

Related concepts

Installing the dispatcher

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Restarting the adapter service

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

Related tasks

Installing the adapter binaries or connector

The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

Installing 3rd party client libraries

Third party client libraries are libraries and/or configuration files that are provided by the target vendor. These 3rd party client libraries must be installed with the adapter. This is not required for all adapters. This topic is not applicable for this adapter.

Setting up the adapter environment

In addition to 3rd party client libraries, some adapters require file system and operating system configuration. This topic is not applicable for this adapter.

Importing the adapter profile

An adapter profile defines the types of resources that the Identity server can manage. It is packaged with the IBM Security Verify Adapter. Use the adapter profile to create an adapter service on Identity server and establish communication with the adapter.

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Importing the adapter profile

You can import a profile definition file, which creates a profile in Identity server. Use this option for importing adapter profiles.

Importing attribute mapping file

After importing the adapter profile, you must import an attribute map from a profile mapping definition file.

Adding a connector

After you import the adapter profile on the Verify Governance Identity Manager server, add a connector so that Verify Governance Identity Manager server can communicate with the managed resource.

Enabling connectors

After you create a connector, by default it is in a disabled state. You must enable a connector to use it.

Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

Attribute Mapping

Attribute mapping is required to define which target attributes correspond to the Verify Governance Identity Manager account attributes.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

Importing the adapter profile

An adapter profile defines the types of resources that the Identity server can manage. It is packaged with the IBM Security Verify Adapter. Use the adapter profile to create an adapter service on Identity server and establish communication with the adapter.

Before you begin

- You have root or administrator authority on the Identity server.
- The file to be imported must be a Java archive (JAR) file. The `<Adapter>Profile.jar` file includes all the files that are required to define the adapter schema, account form, service/target form, and profile properties. If necessary, you can extract the files from the JAR file, modify the files, and repackage the JAR file with the updated files. The JAR file for IBM Security Identity Manager is located in the top level folder of the installation package.

About this task

Service definition files are also called adapter profile files.

If the adapter profile is not installed correctly, the adapter cannot function correctly. You cannot create a service with the adapter profile or open an account on the service. You must import the adapter profile again.

The adapter profile is already imported into the IBM Security Verify Identity virtual appliance. Read the adapter release notes for any specific instructions before you import a new adapter profile on IBM Security Verify Identity.

Procedure

1. Log on to the Identity server by using an account that has the authority to perform administrative tasks.
2. From the navigation tree, select **Configure System > Manage Service Types**.
The **Manage Service Types** page is displayed.
3. On the **Manage Service Types** page, click **Import**.
The **Import Service Type** page is displayed.
4. On the **Import Service Type** page, complete these steps:
 - a) In the **Service Definition File** field, type the directory location of the `<Adapter>Profile.jar` file, or click **Browse** to locate the file.
For example, if you are installing the IBM Security Verify Adapter for a Windows server that runs Active Directory, locate and import the `ADProfileJAR` file.
 - b) Click **OK** to import the file.

Results

A message indicates that you successfully submitted a request to import a service type.

What to do next

- The import occurs asynchronously, which means it might take some time for the service type to load into the Identity server from the properties files and to be available in other pages. On the **Manage Service Types** page, click **Refresh** to see the new service type. If the service type status is Failed, check the log files to determine why the import failed.
- If you receive a schema-related error, see the `trace.log` file for information about it. The `trace.log` file location is specified by the `handler.file.fileDir` property that is defined in the `enRoleLogging.properties` file. The `enRoleLogging.properties` file is in the Identity server `HOME\data` directory. .

Related concepts

Installing the dispatcher

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Restarting the adapter service

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

Related tasks

Installing the adapter binaries or connector

The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

Installing 3rd party client libraries

Third party client libraries are libraries and/or configuration files that are provided by the target vendor. These 3rd party client libraries must be installed with the adapter. This is not required for all adapters. This topic is not applicable for this adapter.

Setting up the adapter environment

In addition to 3rd party client libraries, some adapters require file system and operating system configuration. This topic is not applicable for this adapter.

Importing the adapter profile

An adapter profile defines the types of resources that the Identity server can manage. It is packaged with the IBM Security Verify Adapter. Use the adapter profile to create an adapter service on Identity server and establish communication with the adapter.

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Importing the adapter profile

You can import a profile definition file, which creates a profile in Identity server. Use this option for importing adapter profiles.

Importing attribute mapping file

After importing the adapter profile, you must import an attribute map from a profile mapping definition file.

Adding a connector

After you import the adapter profile on the Verify Governance Identity Manager server, add a connector so that Verify Governance Identity Manager server can communicate with the managed resource.

Enabling connectors

After you create a connector, by default it is in a disabled state. You must enable a connector to use it.

Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

Attribute Mapping

Attribute mapping is required to define which target attributes correspond to the Verify Governance Identity Manager account attributes.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

Importing the adapter profile

An adapter profile defines the types of resources that the Identity server can manage. It is packaged with the IBM Security Verify Adapter. Use the adapter profile to create an adapter service on Identity server and establish communication with the adapter.

Before you begin

- The IBM Security Privileged Identity Manager is installed and running.
- You have root or administrator authority on the IBM Security Privileged Identity Manager.
- The file to be imported must be a Java archive (JAR) file. The `<Adapter>Profile.jar` file includes all the files that are required to define the adapter schema, account form, service/target form, and profile properties. If necessary, you can extract the files from the JAR file, modify the files, and repackage the JAR file with the updated files. The JAR file for IBM Security Privileged Identity Manager is located in the top level folder of the installation package.

About this task

Service definition files are also called adapter profile files.

If the adapter profile is not installed correctly, the adapter cannot function correctly. You cannot create a service with the adapter profile or open an account on the service. You must import the adapter profile again.

Procedure

1. Log on to the IBM Security Privileged Identity Manager by using an account that has the authority to perform administrative tasks.
2. From the navigation tree, select **Configure System > Manage Service Types**.
The **Manage Service Types** page is displayed.
3. On the **Manage Service Types** page, click **Import**.
The **Import Service Type** page is displayed.
4. On the **Import Service Type** page, complete these steps:
 - a) In the **Service Definition File** field, type the directory location of the <Adapter>Profile.jar file, or click **Browse** to locate the file.
For example, if you are installing the IBM Security Verify Adapter for a Windows server that runs Active Directory, locate and import the ADProfileJAR file.
 - b) Click **OK** to import the file.

Results

A message indicates that you successfully submitted a request to import a service type.

What to do next

- The import occurs asynchronously, which means it might take some time for the service type to load into the Identity server from the properties files and to be available in other pages. On the **Manage Service Types** page, click **Refresh** to see the new service type. If the service type status is Failed, check the log files to determine why the import failed.
- If you receive a schema-related error, see the trace.log file for information about it. The trace.log file location is specified by the **handler.file.fileDir** property that is defined in the enRoleLogging.properties file. The enRoleLogging.properties file is in the Identity serverHOME\data directory. .

Related concepts

Installing the dispatcher

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Restarting the adapter service

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

Related tasks

Installing the adapter binaries or connector

The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

Installing 3rd party client libraries

Third party client libraries are libraries and/or configuration files that are provided by the target vendor. These 3rd party client libraries must be installed with the adapter. This is not required for all adapters. This topic is not applicable for this adapter.

Setting up the adapter environment

In addition to 3rd party client libraries, some adapters require file system and operating system configuration. This topic is not applicable for this adapter.

Importing the adapter profile

An adapter profile defines the types of resources that the Identity server can manage. It is packaged with the IBM Security Verify Adapter. Use the adapter profile to create an adapter service on Identity server and establish communication with the adapter.

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Importing the adapter profile

You can import a profile definition file, which creates a profile in Identity server. Use this option for importing adapter profiles.

Importing attribute mapping file

After importing the adapter profile, you must import an attribute map from a profile mapping definition file.

Adding a connector

After you import the adapter profile on the Verify Governance Identity Manager server, add a connector so that Verify Governance Identity Manager server can communicate with the managed resource.

Enabling connectors

After you create a connector, by default it is in a disabled state. You must enable a connector to use it.

Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

Attribute Mapping

Attribute mapping is required to define which target attributes correspond to the Verify Governance Identity Manager account attributes.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

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After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

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After you install and configure the adapter, verify that the installation and configuration are correct.

Importing the adapter profile

You can import a profile definition file, which creates a profile in Identity server. Use this option for importing adapter profiles.

Before you begin

- The Identity server is installed and running.
- You have administrator authority on the Identity server.

- The file to be imported must be a Java archive (JAR) file. The `<Adapter>Profile.jar` file includes all the files that are required to define the adapter schema, account form, service/target form, and profile properties. If necessary, you can extract the files from the JAR file, modify the files, and repackage the JAR file with the updated files.

About this task

Target definition files are also called adapter profile files. The profile definition files are provided with the various IBM Security Verify Adapter. The adapter profile must be imported because it defines the types of resources that the Verify Governance Identity Manager server can manage.

The adapter profile definition file is used to create a target profile on the Verify Governance Identity Manager server and to establish communication with the adapter. If the adapter profile is not imported, you cannot create a connector for that adapter type.

An upload error might occur when no file is selected, or when the file is empty, or due to any upload operation error, such as a timeout or connection error. If the adapter profile is not installed correctly, the adapter cannot function correctly. You cannot create a connector with the adapter profile or open and account on the service. You must import the adapter profile again.

This task can be completed from the Enterprise Connectors module in the Administration Console. To import an adapter target profile, complete these steps:

Procedure

1. Log in to the Verify Governance Identity Manager Administration Console.
2. From the Administration Console, select **Enterprise Connectors**.
3. Select **Manage > Profiles**.
4. Optional: Click **Filter** to toggle the filter on to refine your search results, or click **Hide Filter** to toggle the filter off. When the filter is visible, you can specify search criteria for your requests, and then click **Search**.
5. Click **Actions > Import**.
6. On the **Import** page, complete these steps:
 - a) Select **Profile**.
 - b) Click **Browse** to locate the JAR file that you want to import.
 - c) Click **Upload file**.

A message indicates that you successfully imported a profile.
7. Click **Close**.

The new profile is displayed in the list of profiles.

Results

The upload is synchronous but has a timeout. The progress bar on the **Import** page accurately indicates the upload status. However, when a timeout is reached, the following message occurs: "The import is still in progress and will complete shortly. Close this window to proceed." If you see that message, allow a few minutes for the upload to complete and for the profile to be available.

What to do next

After the target profile is imported successfully, complete these tasks.

- Import the attribute mapping file. See [“Importing attribute mapping file”](#) on page 24.
- Create a connector that uses the target profile. See [“Adding a connector”](#) on page 26.

Related concepts

[Installing the dispatcher](#)

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Restarting the adapter service

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

Related tasks

Installing the adapter binaries or connector

The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

Installing 3rd party client libraries

Third party client libraries are libraries and/or configuration files that are provided by the target vendor. These 3rd party client libraries must be installed with the adapter. This is not required for all adapters. This topic is not applicable for this adapter.

Setting up the adapter environment

In addition to 3rd party client libraries, some adapters require file system and operating system configuration. This topic is not applicable for this adapter.

Importing the adapter profile

An adapter profile defines the types of resources that the Identity server can manage. It is packaged with the IBM Security Verify Adapter. Use the adapter profile to create an adapter service on Identity server and establish communication with the adapter.

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Importing attribute mapping file

After importing the adapter profile, you must import an attribute map from a profile mapping definition file.

Adding a connector

After you import the adapter profile on the Verify Governance Identity Manager server, add a connector so that Verify Governance Identity Manager server can communicate with the managed resource.

Enabling connectors

After you create a connector, by default it is in a disabled state. You must enable a connector to use it.

Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

Attribute Mapping

Attribute mapping is required to define which target attributes correspond to the Verify Governance Identity Manager account attributes.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

Importing attribute mapping file

After importing the adapter profile, you must import an attribute map from a profile mapping definition file.

About this task

This task involves importing an account attribute mapping definition file, which is included in the adapter package. The imported file must be a DEF file.

Procedure

1. Log in to the Verify Governance Identity Manager Administration Console.
2. From the Administration Console, select **Enterprise Connectors**.
3. Select **Manage > Profiles**.
4. Optional: Click **Filter** to toggle the filter on to refine your search results, or click **Hide Filter** to toggle the filter off. When the filter is visible, you can specify search criteria for your requests, and then click **Search**.
5. Click **Actions > Import**.
6. On the **Import** page, complete these steps:
 - a) Select **Attribute Mapping**.
 - b) Click **Browse** to locate the attribute mapping file that you want to import.
 - c) Click **Upload file**.

A message indicates that you successfully imported the file.

7. Click **Close**.

Related concepts

Installing the dispatcher

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Restarting the adapter service

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

Related tasks

Installing the adapter binaries or connector

The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

Installing 3rd party client libraries

Third party client libraries are libraries and/or configuration files that are provided by the target vendor. These 3rd party client libraries must be installed with the adapter. This is not required for all adapters. This topic is not applicable for this adapter.

Setting up the adapter environment

In addition to 3rd party client libraries, some adapters require file system and operating system configuration. This topic is not applicable for this adapter.

Importing the adapter profile

An adapter profile defines the types of resources that the Identity server can manage. It is packaged with the IBM Security Verify Adapter. Use the adapter profile to create an adapter service on Identity server and establish communication with the adapter.

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You can import a profile definition file, which creates a profile in Identity server. Use this option for importing adapter profiles.

Adding a connector

After you import the adapter profile on the Verify Governance Identity Manager server, add a connector so that Verify Governance Identity Manager server can communicate with the managed resource.

Enabling connectors

After you create a connector, by default it is in a disabled state. You must enable a connector to use it.

Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

Attribute Mapping

Attribute mapping is required to define which target attributes correspond to the Verify Governance Identity Manager account attributes.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

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Verifying that the adapter is working correctly

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Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

Adding a connector

After you import the adapter profile on the Verify Governance Identity Manager server, add a connector so that Verify Governance Identity Manager server can communicate with the managed resource.

Before you begin

Complete [Importing the adapter profile](#).

Note: If you migrated from Verify Governance Identity Manager V5.2.2 or V5.2.2.1 and want to add or configure a connector, see *Adding and configuring a connector for each target* in the IBM Security Verify Governance Identity Manager product documentation.

About this task

The connectors consolidate, extract, and reconcile user identities, organization units, permissions, and user entitlements with the most common enterprise applications. Configure a connector to keep the Access Governance Core repository synchronized with the target system.

This task can be completed from the Enterprise Connectors module in the Administration Console.

Procedure

To add a connector, complete these steps.

1. Log in to the Verify Governance Identity Manager Administration Console.
2. From the Administration Console, select **Enterprise Connectors**.
3. Select **Manage > Connectors**.
A list of connectors is displayed on the **Connectors** tab.
4. Click **Filter** to toggle the filter on to refine your search results, or click **Hide Filter** to toggle the filter off. When the filter is visible, you can specify search criteria for your requests, and then click **Search**.
5. To view all of the columns in the list of connectors, expand the **Connectors** pane.
6. Click **Actions > Add**.
The **Connector Details** pane is enabled for your input.
7. On the **Connector Details** tab, complete these steps:
 - a) Assign a name and description for the connector.
 - b) Select the target profile type as **Identity Brokerage** and its corresponding target profile.
 - c) Select the entity, such as **Account** or **User**.
Depending on the connector type, this field might be preselected.
 - d) Optional: Select **Trace ON** and the corresponding **Trace Level** to enable trace logs.
The available trace levels are DEBUG, INFO, and ERROR.
 - e) Optional: Select **History ON** to save and track the connector usage.
 - f) Click **Save**.
The fields for enabling the channels for sending and receiving data are now visible.
 - g) Select and set the connector properties in the **Global Config** accordion pane.
For information about the global configuration properties, see [Global Config accordion pane](#).
 - h) Click **Save**. The fields for enabling the channels for sending and receiving data are now visible.

Results

The connector is saved and added to the list of connectors in the **Connectors** pane.

If you cannot create a connector with the target profile or open an account on an existing connector, the target profile was not installed correctly during the import. You must import the target profile again.

What to do next

Enable the channel modes to synchronize the data between the target systems and Verify Governance Identity Manager. For more information, see [“Enabling connectors”](#) on page 28.

Related concepts

[Installing the dispatcher](#)

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

[Restarting the adapter service](#)

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

[Service/Target form details](#)

Complete the service/target form fields.

[Installing the adapter language package](#)

The adapters use a separate language package from IBM Security Verify Identity.

Related tasks

[Installing the adapter binaries or connector](#)

The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

[Installing 3rd party client libraries](#)

Third party client libraries are libraries and/or configuration files that are provided by the target vendor. These 3rd party client libraries must be installed with the adapter. This is not required for all adapters. This topic is not applicable for this adapter.

[Setting up the adapter environment](#)

In addition to 3rd party client libraries, some adapters require file system and operating system configuration. This topic is not applicable for this adapter.

[Importing the adapter profile](#)

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You can import a profile definition file, which creates a profile in Identity server. Use this option for importing adapter profiles.

[Importing attribute mapping file](#)

After importing the adapter profile, you must import an attribute map from a profile mapping definition file.

[Enabling connectors](#)

After you create a connector, by default it is in a disabled state. You must enable a connector to use it.

Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

Attribute Mapping

Attribute mapping is required to define which target attributes correspond to the Verify Governance Identity Manager account attributes.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

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Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

Verifying that the adapter is working correctly

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Enabling connectors

After you create a connector, by default it is in a disabled state. You must enable a connector to use it.

Before you begin

Prerequisite	Find more information
A connector must exist in Verify Governance Identity Manager.	“Adding a connector” on page 26.
Ensure that you enabled the appropriate channel modes for the connector.	“Reviewing and setting channel modes for each new connector” on page 30.

Procedure

To enable a connector, complete these steps:

1. Log in to the Verify Governance Identity Manager Administration Console.
2. From the Administration Console, select **Enterprise Connectors**.
3. Select **Manage > Connectors**.
A list of connectors is displayed on the **Connectors** tab.
4. Optional: Click **Filter** to toggle the filter on to refine your search results, or click **Hide Filter** to toggle the filter off. When the filter is visible, you can specify search criteria for your requests, and then click **Search**.
5. Optional: To view all of the columns in the list of connectors, expand the **Connectors** pane.
6. Select the connector that you want to enable.
7. On the **Connector Details** tab, complete these steps:
 - a) Select the channel modes that you want to enable, and then click **Save**. Depending on the channels that you enable, the corresponding **Channel** tabs are displayed.

Enable write-to channel

Propagates every change in the Access Governance Core repository into the target system.

For connectors that are not HR feed, the check boxes for enabling the read-from channel and the write-to channel are available.

Enable read-from channel

Reads the INPUT EVENTS and USER DATA from the target system. Imports data from the target system to the Access Governance Core repository.

For HR feed connectors, only the check box for enabling the read-from channel is available.

Enable reconciliation

Synchronizes the modified data between the Access Governance Core repository and the target system.

Results

The connector is enabled

What to do next

Enable the channel modes to synchronize the data between the target systems and Verify Governance Identity Manager.

Related conceptsInstalling the dispatcher

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Restarting the adapter service

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

Related tasksInstalling the adapter binaries or connector

The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

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Third party client libraries are libraries and/or configuration files that are provided by the target vendor. These 3rd party client libraries must be installed with the adapter. This is not required for all adapters. This topic is not applicable for this adapter.

Setting up the adapter environment

In addition to 3rd party client libraries, some adapter require file system and operating system configuration. This topic is not applicable for this adapter.

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After importing the adapter profile, you must import an attribute map from a profile mapping definition file.

Adding a connector

After you import the adapter profile on the Verify Governance Identity Manager server, add a connector so that Verify Governance Identity Manager server can communicate with the managed resource.

Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

Attribute Mapping

Attribute mapping is required to define which target attributes correspond to the Verify Governance Identity Manager account attributes.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

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Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

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About this task

Note: Legacy Verify Governance Identity Manager Enterprise connectors use Reconciliation channel, whereas Identity Brokerage Enterprise connectors use Read From Channel and Change Log Sync.

For more information about any of tasks in the following steps, see the IBM® Security Identity Governance and Intelligence product documentation.

Procedure

To enable the read-from and write-to channels, and to set the change log synchronization schedule for each new connector, complete these steps in Verify Governance Identity Manager V5.2.3:

1. Log in to the Verify Governance Identity Manager Administration Console.
2. From the Administration Console, select **Enterprise Connectors**.
3. Select **Manage > Connectors**.
A list of connectors is displayed on the **Connectors** tab.
4. Optional: Click **Filter** to toggle the filter on to refine your search results, or click **Hide Filter** to toggle the filter off. When the filter is visible, you can specify search criteria for your requests, and then click **Search**.
5. Optional: To view all of the columns in the list of connectors, expand the **Connectors** pane.
6. Select the connector that you want to enable.
7. On the **Connector Details** tab, complete these steps:
 - a) Select the channel modes that you want to enable, and then click **Save**. Depending on the channels that you enable, the corresponding **Channel** tabs are displayed, in which you can do more configuration, such as mapping attributes and setting up rules.
 - Enable write-to channel**
Propagates every change in the Access Governance Core repository into the target system.
 - Enable read-from channel**
Reads the INPUT EVENTS and USER DATA from the target system. Imports data from the target system to the Access Governance Core repository.
 - Enable reconciliation**
Synchronizes the modified data between the Access Governance Core repository and the target system.
8. Select **Monitor > Change Log Sync Status**.
A list of connectors is displayed.
9. On the **Change Log Sync Status** tab, complete these steps:
 - a) Optional: Click **Filter** to toggle the filter on to refine your search results, or click **Hide Filter** to toggle the filter off. When the filter is visible, you can specify search criteria for your requests, and then click **Search**.
 - b) Select a connector, and click **Actions > Sync Now**.
The synchronization process begins.
 - c) Optional: To view the status of the synchronization request, select **Sync History** in the right pane.
Information about the synchronization is displayed in the **Sync History** tab.
10. Set the change log synchronization schedule for each new connector that you migrated.
11. When the connector configuration is complete, enable the connector by completing these steps:
 - a) Select **Manage > Connectors**.
 - b) Select the connector that you want to enable, and then select the **Enable** check box in the **Connector Details** tab.
 - c) Click **Save**.
For more information, see [“Enabling connectors”](#) on page 28.

For Identity Brokerage connectors that are not HR feed, the check boxes for enabling the read-from channel and the write-to channel are available.

For Identity Brokerage HR feed connectors, only the check box for enabling the read-from channel is available.
12. Start the connector by selecting **Monitor > Connector Status**. Select the connector that you want to start, and then select **Actions > Start**.

Related concepts

[Installing the dispatcher](#)

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Restarting the adapter service

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

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Related tasks

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Attribute Mapping

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About this task

This task involves an account attribute mapping definition file, which is included in the adapter package.

The file consists of Verify Governance Identity Manager account attributes and their equivalent attributes in the managed target. The file is structured as `<IGI_attribute> = <target_attribute>`.

The `<IGI_attribute>` is fixed and must not be modified. Edit only the `<target_attribute>`. Some `<IGI_attribute>` already has a fixed equivalent `<target_attribute>` of `eraccount`.

Some `<IGI_attribute>` do not have a defined `<target_attribute>` and you can assign the mapping. For example:

```
USER_TYPE=USER_TYPE
ATTR1=ATTR1
```

Note:

- The default mapping is already included out-of-the box. If there are no changes to the attribute mapping, there is no need to import the attribute mapping files.
- It might take up to 10 minutes for the attribute mapping changes to take effect once the file is imported.

Procedure

1. Open the mapping definition file by using any text editor.
2. Edit the mapping.
3. If the target attribute has a list of predefined values, use the following syntax to convert its values to the corresponding Verify Governance Identity Manager attribute values.

```
[conversion].<target_attribute>.<IGI_attribute> =
[<target_attribute_value1>=<IGI_attribute_value1>;...;
<target_attribute_valuen>=<IGI_attribute_valuen>]
```

4. For attributes that contains date and time, use the following syntax to convert its values.
For example:

```
[conversion.date].erbirthDate.BIRTHDAY=[yyyyMMdd=dd/MM/yyyy HH:mm:ss]
[conversion.date].ACCOUNT_EXPIRY_DATE.ACCOUNT_EXPIRY_DATE=
[dd/MM/yyyy HH:mm:ss=dd/MM/yyyy HH:mm:ss]
```

5. Import the updated mapping definition file through the Enterprise Connectors module. For more information, see *Attribute-to-permission mapping service* in the IBM Security Verify Governance Identity Manager product documentation.
6. Map the following attributes for **Chanel-Write To** and **Chanel-Read From**

Attribute	Mapped Attribute
eruid	CODE
erpassword	PASSWORD

For more information, see *Mapping attributes for a connector* in the IBM Security Verify Governance Identity Manager product documentation.

Related concepts

Installing the dispatcher

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Restarting the adapter service

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

Related tasks

Installing the adapter binaries or connector

The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

Installing 3rd party client libraries

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Enabling connectors

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Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

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Verifying that the adapter is working correctly

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Creating an adapter service/target

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Before you begin

Complete [“Importing the adapter profile”](#) on page 15.

About this task

You must create an administrative user account for the adapter on the managed resource. You can provide the account information such as administrator name and password when you create the adapter service. Ensure that the account has sufficient privileges to administer the users. For information about creating an administrative account, see the documentation for the managed resource.

To create or change a service, you must use the service form to provide information for the service. Service forms might vary depending on the adapter. The service name and description that you provide for each service are displayed on the console. Therefore, it is important to provide values that make sense to your users and administrators.

Procedure

1. From the navigation tree, click **Manage Services**.
The **Select a Service** page is displayed.
2. On the **Select a Service** page, click **Create**.
The **Create a Service** wizard is displayed.

3. On the **Select the Type of Service** page, click **Search** to locate a business unit.
The **Business Unit** page is displayed.
4. On the **Business Unit** page, complete these steps:
 - a) Type information about the business unit in the **Search information** field.
 - b) Select a business type from the **Search by** list, and then click **Search**.
A list of business units that matches the search criteria is displayed.
If the table contains multiple pages, you can do the following tasks:
 - Click the arrow to go to the next page.
 - Type the number of the page that you want to view and click **Go**.
 - c) In the **Business Units** table, select business unit in which you want to create the service, and then click **OK**.
The **Select the Type of Service** page is displayed, and the business unit that you specified is displayed in the **Business unit** field.
5. On the **Select the Type of Service** page, select a service type, and then click **Next**.
If the table contains multiple pages, you can do the following tasks:
 - Click the arrow to go to the next page.
 - Type the number of the page that you want to view and click **Go**.
6. On either the **Service Information** or **General Information** page, specify the appropriate values for the service instance.
The content of the **General Information** page depends on the type of service that you are creating. The creation of some services might require more steps.
7. To create a service with NTLM authentication, the administrator login is in the following format:


```
<Domain Name>\<Login Name>
```
8. For NLTM authentication, select **Authentication** mode as 'Claims-Based Authentication.
9. On the **Dispatcher Attributes** page, specify information about the dispatcher attributes, and then click **Next** or **OK**.
The **Dispatcher Attributes** page is displayed only for IBM Security Directory Integrator based services.
10. Optional: On the **Access Information** page, select the **Define an Access** check box to activate the access definition fields. Select the type of access you want to enable.
Specify the expected access information and any other optional information such as description, search terms, more information, or badges.
11. On the **Status and Information** page, view information about the adapter and managed resource, and then click **Next** or **Finish**.
The adapter must be running to obtain the information.
12. On the **Configure Policy** page, select a provisioning policy option, and then click **Next** or **Finish**.
The provisioning policy determines the ownership types available for accounts. The default provisioning policy enables only Individual ownership type accounts. Additional ownership types can be added by creating entitlements on the provisioning policy.
Note: If you are creating a service for an identity feed, the **Configure Policy** page is not displayed.
13. Optional: On the **Reconcile Supporting Data** page, either do an immediate reconciliation for the service, or schedule a supporting data reconciliation, and then click **Finish**.
The **Reconcile Supporting Data** page is displayed for all services except for identity feed services.
The **supporting data only** reconciliation option retrieves only the supporting data for accounts. The supporting data includes groups that are defined on the service. The type of supporting data is defined in the adapter guide.

14. Optional: On the **Service Information** or **General Information** page, click **Test Connection** to validate that the data in the fields is correct, and then click **Next** or **Finish**.

If the connection fails, contact the analyst who is responsible for the computer on which the managed resource runs.

Results

A message is displayed, indicating that you successfully created the service instance for a specific service type.

Related concepts

Installing the dispatcher

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Restarting the adapter service

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

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Related tasks

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Adding a connector

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Enabling connectors

After you create a connector, by default it is in a disabled state. You must enable a connector to use it.

Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

Attribute Mapping

Attribute mapping is required to define which target attributes correspond to the Verify Governance Identity Manager account attributes.

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Before you begin

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About this task

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To create or change a service, you must use the service form to provide information for the service. Service forms might vary depending on the adapter. The service name and description that you provide for each service are displayed on the console. Therefore, it is important to provide values that make sense to your users and administrators.

Procedure

1. From the navigation tree, click **Manage Services**.
The **Select a Service** page is displayed.
2. On the **Select a Service** page, click **Create**.
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The **Select the Type of Service** page is displayed, and the business unit that you specified is displayed in the **Business unit** field.
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4. On the **Business Unit** page, complete these steps:
 - a) Type information about the business unit in the **Search information** field.
 - b) Select a business type from the **Search by** list, and then click **Search**.
A list of business units that matches the search criteria is displayed.
If the table contains multiple pages, you can do the following tasks:
 - Click the arrow to go to the next page.

- Type the number of the page that you want to view and click **Go**.
- c) In the **Business Units** table, select business unit in which you want to create the service, and then click **OK**.
The **Select the Type of Service** page is displayed, and the business unit that you specified is displayed in the **Business unit** field.
- 5. On the **Select the Type of Service** page, select a service type, and then click **Next**.
- 6. On the **Service Information** page, specify the appropriate values for the service instance.
The content of the **Service Information** page depends on the type of service that you are creating.
- 7. Click **Test Connection** to validate that the data in the fields is correct.
If the connection fails, contact the analyst who is responsible for the computer on which the managed resource runs.
- 8. Click **Finish**.

Results

A message is displayed, indicating that you successfully created the service instance for a specific service type.

Related concepts

Installing the dispatcher

If this is the first Security Directory Integrator-based adapter installation, you must install the RMI Dispatcher before you install the adapter. Install the RMI Dispatcher on the same Security Directory Integrator server where you want to install the adapter.

Restarting the adapter service

Various installation and configuration tasks might require the adapter to be restarted to apply the changes. For example, you must restart the adapter if there are changes in the adapter profile, connector, or assembly lines. To restart the adapter, restart the Dispatcher.

Service/Target form details

Complete the service/target form fields.

Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

Related tasks

Installing the adapter binaries or connector

The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

Installing 3rd party client libraries

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Adding a connector

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Enabling connectors

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Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

Attribute Mapping

Attribute mapping is required to define which target attributes correspond to the Verify Governance Identity Manager account attributes.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Creating an adapter service/target

After you import the adapter profile on the Identity server, create a service/target so that Identity server can communicate with the managed resource.

Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

Service/Target form details

Complete the service/target form fields.

You must create a user account for the adapter on the managed resource. The accounts must be able to remotely connect to the PostgreSQL and must have sufficient privileges to administer PostgreSQL users.

Privilege	Description
CREATEROLE	Database administrator authority
SUPERUSER	Security administrator authority
SELECT on pg_authid	User must have select access on table pg_authid

On the PostgreSQL Connection tab:

Service name

Specify a name that defines the adapter service on the Identity server.

Note: Do not use forward (/) or backward slashes (\) in the service name.

Description

Optional: Specify a description that identifies the service for your environment.

Tivoli Directory Integrator location

Specify the URL for the IBM Security Directory Integrator instance. The valid syntax for the URL is `rmi://ip-address:port/ITDIDispatcher`, where *ip-address* is the IBM Security Directory Integrator host and *port* is the port number for the RMI Dispatcher.

The default URL for the default SDI1 instance is `rmi://localhost:1099/ITDIDispatcher`.

The following table shows the ports that are open in the firewall for every instance that is created. However, usage of these port numbers do not support high availability.

Instance	Ports
SDI1	1199, 1198, 1197, 1196, 1195, 1194
SDI2	2299, 2298, 2297, 2296, 2295, 2294
SDI3	3399, 3398, 3397, 3396, 3395, 3394
SDI4	4499, 4498, 4497, 4496, 4495, 4494
SDI5	5599, 5598, 5597, 5596, 5595, 5594
SDI6	6699, 6698, 6697, 6696, 6695, 6694
SDI7	7799, 7798, 7797, 7796, 7795, 7794
SDI8	8899, 8898, 8897, 8896, 8895, 8894
SDI9	9999, 9998, 9997, 9996, 9995, 9994
SDI10	11099, 11098, 11097, 11096, 11095, 11094

For a high availability implementation, use any of these port numbers.

- 1099
- 2099
- 3099

PostgreSQL Server Host

Specify the host IP or name on which the PostgreSQL server is running.

PostgreSQL Server Port

Specify the TCP port on which the PostgreSQL server is running. You can specify 5432 to use the default PostgreSQL port.

PostgreSQL Database Name

Specify the database name of the PostgreSQL database that you want to manage, for example POSTGRES.

PostgreSQL Administration User Account

Specify the name of the user who has access to the PostgreSQL resource and who can do administrative operations.

PostgreSQL Administration User Password

Specify the password for the user.

On the Dispatcher Attributes tab:

Assembly Line File System Path

Optionally, you can specify the path from where the Dispatcher loads the assembly lines. If you do not specify a file path, the Dispatcher loads the default assembly lines from the adapter's profile

For example:

Windows operating system:

C:\Program Files\IBM\SDI\V7.2\profiles

UNIX and Linux operating system

/opt/IBM/SDI/V7.2/profiles

Disable Assembly Line Caching

Select the check box to disable the assembly line caching in the dispatcher for the service. When disabled, the assembly lines for the Add, Modify, Delete, and Test operations are not cached.

When enabled, the entire assembly line object is saved in the cache. The connection to the PostgreSQL resource is maintained. The next request that the adapter receives can reuse this connection. Creating a new connection to the PostgreSQL resource can take a lot of time. Caching data can save time and resource utilization.

Max Connection Count

Specify the maximum number of assembly lines that the dispatcher can run simultaneously for the service. Enter 10 if you want the dispatcher to run a maximum of 10 assembly lines simultaneously for the service. If you enter 0 in the **Max Connection Count** field, the dispatcher does not limit the number of assembly lines that are run simultaneously for the service.

On the Status and information tab

Contains read only information about the adapter and managed resource. These fields are examples. The actual fields vary depending on the type of adapter and how the service form is configured. The adapter must be running to obtain the information. Click **Test Connection** to populate the fields.

Last status update: Date

Specifies the most recent date when the Status and information tab was updated.

Last status update: Time

Specifies the most recent time of the date when the Status and information tab was updated.

Managed resource status

Specifies the status of the managed resource that the adapter is connected to.

Adapter version

Specifies the version of the adapter that the service uses to provision request to the managed resource.

Profile version

Specifies the version of the profile that is installed in the Identity server.

TDI version

Specifies the version of the Security Directory Integrator on which the adapter is deployed.

Dispatcher version

Specifies the version of the dispatcher.

Installation platform

Specifies summary information about the operating system where the adapter is installed.

Adapter account

Specifies the account that is running the adapter binary file.

Adapter up time: Date

Specifies the date when the adapter started.

Adapter up time: Time

Specifies the time of the date when the adapter started.

Adapter memory usage

Specifies the memory usage for running the adapter.

If the connection fails, follow the instructions in the error message. Also

- Verify the adapter log to ensure that the test request was successfully sent to the adapter.
- Verify the adapter configuration information.
- Verify service parameters for the adapter profile. Verify parameters such as the work station name or the IP address of the managed resource and the port.

Related concepts

Installing the dispatcher

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Restarting the adapter service

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Installing the adapter language package

The adapters use a separate language package from IBM Security Verify Identity.

Related tasks

Installing the adapter binaries or connector

The connector might or might not be available with the base Security Directory Integrator or Security Directory Integrator product. The connector is required to establish communication between the adapter and the Dispatcher.

Installing 3rd party client libraries

Third party client libraries are libraries and/or configuration files that are provided by the target vendor. These 3rd party client libraries must be installed with the adapter. This is not required for all adapters. This topic is not applicable for this adapter.

Setting up the adapter environment

In addition to 3rd party client libraries, some adapters require file system and operating system configuration. This topic is not applicable for this adapter.

Importing the adapter profile

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Adding a connector

After you import the adapter profile on the Verify Governance Identity Manager server, add a connector so that Verify Governance Identity Manager server can communicate with the managed resource.

Enabling connectors

After you create a connector, by default it is in a disabled state. You must enable a connector to use it.

Reviewing and setting channel modes for each new connector

Use this procedure to set up the read-from and write-to channels and to set the synchronization schedule for each new connector.

Attribute Mapping

Attribute mapping is required to define which target attributes correspond to the Verify Governance Identity Manager account attributes.

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The adapters use a separate language package from IBM Security Verify Identity.

See *Installing the adapter language pack* from the IBM Security Verify Identity product documentation.

Related concepts

Installing the dispatcher

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Restarting the adapter service

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Service/Target form details

Complete the service/target form fields.

Related tasks

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Procedure

1. Test the connection for the service that you created on the Identity serverIdentity server.
2. Run a full reconciliation from the Identity serverIdentity server.
3. Run all supported operations such as add, modify, and delete on one user account.
4. Verify the `ibmdi.log` file after each operation to ensure that no errors are reported.
5. Verify the `trace.log` file to ensure that no errors are reported when you run an adapter operation.

Related concepts

Installing the dispatcher

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Verifying that the adapter is working correctly

After you install and configure the adapter, verify that the installation and configuration are correct.

Chapter 4. Upgrading

Upgrading an IBM Security Directory Integrator-based adapter involves tasks such as upgrading the dispatcher, the connector, and the adapter profile. Depending on the adapter, some of these tasks might not be applicable. Other tasks might also be required to complete the upgrade.

To verify the required version of these adapter components, see the adapter release notes. For the installation steps, see [Chapter 3, “Installing,”](#) on page 7.

Upgrading the dispatcher

Before you upgrade the dispatcher, verify the version of the dispatcher.

- If the dispatcher version mentioned in the release notes is later than the existing version on your workstation, install the dispatcher.
- If the dispatcher version mentioned in the release notes is the same or earlier than the existing version, do not install the dispatcher.

Note: Stop the dispatcher service before the upgrading the dispatcher and start it again after the upgrade is complete.

Related concepts

[Upgrading the adapter profile](#)

Read the adapter Release Notes for any specific instructions before you import a new adapter profile.

Upgrading the adapter profile

Read the adapter Release Notes for any specific instructions before you import a new adapter profile.

Note: Restart the Dispatcher service after importing the profile. Restarting the Dispatcher clears the assembly lines cache and ensures that the dispatcher runs the assembly lines from the updated adapter profile.

Related concepts

[Upgrading the dispatcher](#)

Before you upgrade the dispatcher, verify the version of the dispatcher.

Chapter 5. Configuring

After you install the adapter, configure it to function correctly. Configuration is based on your requirements or preference.

See the *IBM Security Dispatcher Installation and Configuration Guide* for more configuration options such as:

- JVM properties
- Dispatcher filtering
- Dispatcher properties
- Dispatcher port number
- Logging configurations
- Secure Sockets Layer (SSL) communication

Customizing the adapter profile

To customize the adapter profile, you must modify the PostgreSQL Adapter JAR file. You might customize the adapter profile to change the account form or the service form.

About this task

You can also use the Form Designer or the `CustomLabels.properties` file to change the labels on the forms. Each adapter has a `CustomLabels.properties` file for that adapter.

The JAR file is included in the PostgreSQL Adapter compressed file that you downloaded from the IBM website. The JAR file and the files that are contained in the JAR file vary depending on your operating system.

Note: You cannot modify the schema for this adapter. You cannot add or delete attributes from the schema.

The adapter JAR file includes the following files:

- `CustomLabels.properties`
- `erPgSQLAccount.xml`
- `erPgSQLService.xml`
- `schema.dsm1`
- `service.def`
- `PgSQLManageUser.xml`
- `PgSQLSearch.xml`
- `PgSQLTest.xml`
- `targetprofile.json`

Procedure

- To edit the JAR file, take these steps:
 - a) Log on to the workstation where the PostgreSQL Adapter is installed.
 - b) On the **Start** menu, click **Programs** → **Accessories** → **Command Prompt**.
 - c) Copy the JAR file into a temporary directory.
 - d) Extract the contents of the JAR file into the temporary directory by running the following command.

The following example applies to the PostgreSQL Adapter profile. Type the name of the JAR file for your operating system.

```
cd c:\temp cd /tmp
jar -xvf PostgreSQLAdapterProfile.jar
```

The **jar** command extracts the files into the PostgreSQLAdapterProfile directory.

e) Edit the file that you want to change

After you edit the file, you must import the file into the Identity server for the changes to take effect.

- To import the file, take these steps:

a) Create a JAR file by using the files in the \temp /tmp directory.

Run the following commands:

```
cd /tmp cd c:\temp
jar -cvf PostgreSQLAdapterProfile.jar PostgreSQLAdapterProfile
```

b) Import the JAR file into the IBM Security Verify Identity Manager application server.

c) Stop and start the Identity server.

d) Restart the adapter service.

Related tasks

[Editing adapter profiles on the UNIX or Linux operating system](#)

The adapter profile .jar file might contain ASCII files that are created by using the MS-DOS ASCII format.

Editing adapter profiles on the UNIX or Linux operating system

The adapter profile .jar file might contain ASCII files that are created by using the MS-DOS ASCII format.

About this task

If you edit an MS-DOS ASCII file on the UNIX operating system, you might see a character ^M at the end of each line. These characters indicate new lines of text in MS-DOS. The characters can interfere with the running of the file on UNIX or Linux® systems. You can use tools, such as **dos2unix**, to remove the ^M characters. You can also use text editors, such as the **vi** editor, to remove the characters manually.

Example

You can use the **vi** editor to remove the ^M characters. From the **vi** command mode, run the following command and press Enter:

```
:%s/^M//g
```

When you use this command, enter ^M or Ctrl-M by pressing **^v^M** or **Ctrl V Ctrl M** sequentially. The **^v** instructs the **vi** editor to use the next keystroke instead of issuing it as a command.

Related tasks

[Customizing the adapter profile](#)

To customize the adapter profile, you must modify the PostgreSQL Adapter JAR file. You might customize the adapter profile to change the account form or the service form.

Chapter 6. Troubleshooting

Troubleshooting is a systematic approach to solving a problem. The goal of troubleshooting is to determine why something does not work as expected and how to resolve the problem. This topic provides information and techniques for identifying and resolving problems that are related to the adapter, including troubleshooting errors that might occur during the adapter installation.

Techniques for troubleshooting problems

Certain common techniques can help with the task of troubleshooting. The first step in the troubleshooting process is to describe the problem completely.

Problem descriptions help you and the IBM technical-support representative find the cause of the problem. This step includes asking yourself basic questions:

- What are the symptoms of the problem?
- Where does the problem occur?
- When does the problem occur?
- Under which conditions does the problem occur?
- Can the problem be reproduced?

The answers to these questions typically lead to a good description of the problem, which can then lead you to a problem resolution.

What are the symptoms of the problem?

When you start to describe a problem, the most obvious question is "What is the problem?" This question might seem straightforward; however, you can break it down into several more-focused questions that create a more descriptive picture of the problem. These questions can include:

- Who, or what, is reporting the problem?
- What are the error codes and messages?
- How does the system fail? For example, is it a loop, hang, crash, performance degradation, or incorrect result?

Where does the problem occur?

Determining where the problem originates is not always easy, but it is one of the most important steps in resolving a problem. Many layers of technology can exist between the reporting and failing components. Networks, disks, and drivers are only a few of the components to consider when you are investigating problems.

The following questions help you to focus on where the problem occurs to isolate the problem layer:

- Is the problem specific to one operating system, or is it common across multiple operating systems?
- Is the current environment and configuration supported?
- Do all users have the problem?
- (For multi-site installations.) Do all sites have the problem?

If one layer reports the problem, the problem does not necessarily originate in that layer. Part of identifying where a problem originates is understanding the environment in which it exists. Take some time to completely describe the problem environment, including the operating system and version, all corresponding software and versions, and hardware information. Confirm that you are running within an environment that is a supported configuration. Many problems can be traced back to incompatible levels of software that are not intended to run together or are not fully tested together.

When does the problem occur?

Develop a detailed timeline of events that lead up to a failure, especially for those cases that are one-time occurrences. You can most easily develop a timeline by working backward: Start at the time an error was reported (as precisely as possible, even down to the millisecond), and work backward through the available logs and information. Typically, you use the first suspicious event that you find in a diagnostic log.

To develop a detailed timeline of events, answer these questions:

- Does the problem happen only at a certain time of day or night?
- How often does the problem happen?
- What sequence of events leads up to the time that the problem is reported?
- Does the problem happen after an environment change, such as upgrading or installing software or hardware?

Responding to these types of questions can give you a frame of reference in which to investigate the problem.

Under which conditions does the problem occur?

Knowing which systems and applications are running at the time that a problem occurs is an important part of troubleshooting. These questions about your environment can help you to identify the root cause of the problem:

- Does the problem always occur when the same task is being done?
- Is a certain sequence of events required for the problem to occur?
- Do any other applications fail at the same time?

Answering these types of questions can help you explain the environment in which the problem occurs and correlate any dependencies. Remember that just because multiple problems might occur around the same time, the problems are not necessarily related.

Can the problem be reproduced?

From a troubleshooting standpoint, the ideal problem is one that can be reproduced. Typically, when a problem can be reproduced you have a larger set of tools or procedures at your disposal to help you investigate. Problems that you can reproduce are often easier to debug and solve.

However, problems that you can reproduce can have a disadvantage: If the problem is of significant business impact, you do not want it to recur. If possible, re-create the problem in a test or development environment, which typically offers you more flexibility and control during your investigation.

- Can the problem be re-created on a test system?
- Do multiple users or applications have the same type of problem?
- Can the problem be re-created by running a single command, a set of commands, or a particular application?

Related concepts

Configuring debugging

By default, adapters log message in "INFO" level. In order to force the adapter to log detailed message, you must enable "DEBUG" level logging.

Logs

When the adapter is initially configured, a default directory is selected to store the log files that record the adapter activities. Logs can help you determine the background or cause of an issue and to find the proper solution.

Error messages and problem solving

A warning or error message might be displayed in the user interface to provide information about the adapter or when an error occurs.

Configuring debugging

By default, adapters log message in "INFO" level. In order to force the adapter to log detailed message, you must enable "DEBUG" level logging.

Related concepts

[Techniques for troubleshooting problems](#)

Certain common techniques can help with the task of troubleshooting. The first step in the troubleshooting process is to describe the problem completely.

[Logs](#)

When the adapter is initially configured, a default directory is selected to store the log files that record the adapter activities. Logs can help you determine the background or cause of an issue and to find the proper solution.

[Error messages and problem solving](#)

A warning or error message might be displayed in the user interface to provide information about the adapter or when an error occurs.

Logs

When the adapter is initially configured, a default directory is selected to store the log files that record the adapter activities. Logs can help you determine the background or cause of an issue and to find the proper solution.

```
<Log Level> [<Assembly Line_ProfileName>_<Request Id>]_
[<Connector Name>] - <message>
```

Log Level

Specifies the logging level that you configured for the adapter. The options are DEBUG, ERROR, INFO, and WARN. For information about using the `log4j.properties` file to configure logging, see the *Dispatcher Installation and Configuration Guide*.

Assembly Line

Specifies the name of the assembly line that is logging the information.

ProfileName

Specifies the name of the profile. Profile names can vary based on the adapter that is running or the operating system.

Request ID

Specifies the number of the request. The Request ID is used to uniquely identify a specific request.

Connector Name

Specifies the adapter connector.

Message

Specifies the informational message.

When you click the **Test** button on the service form, the service, environment, and configuration values are sent to the IBM Security Directory Integrator log during the test. These collected information can help diagnose issues.

The log files are kept in the UNIX System Services file system, under the installation path of the adapter, in the read/write log subdirectory.

The adapter log name is the adapter instance name, followed by an extension of `.log`. When the extension is `.log`, it is the current log file. Old log files have a different extension such as `.log_001`, `.log_002`, `.log_003` and so on.

Details	Example values
Installation path	/usr/itim
Adapter log name	
Log location	/usr/itim/log/
Log files	<ul style="list-style-type: none"> • .log • .log_001 • .log_002 • .log_003

You can use the UNIX System Services **obrowse** command **tail**, or any other UNIX based utility to inspect the adapter logs.

The size of a log file, the number of log files, the directory path, and the detailed level of logging are configured with the **agentCfg** program.

Related concepts

Techniques for troubleshooting problems

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Configuring debugging

By default, adapters log message in "INFO" level. In order to force the adapter to log detailed message, you must enable "DEBUG" level logging.

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Error messages and problem solving

A warning or error message might be displayed in the user interface to provide information about the adapter or when an error occurs.

A warning or error might be displayed in the user interface to provide information that you must know about the adapter or about an error. [Table 9 on page 60](#) contains warnings or errors that might be displayed in the user interface if the PostgreSQL Adapter is installed on your system.

Message code	Warning or error message	Remedial action
CTGIMT001E	The following error occurred. Error: Either the PostgreSQL service name is incorrect or the service is not up.	Ensure that the PostgreSQL service name given on IBM Security Verify Identity Governance Identity Manager Privileged Identity Manager service form is running.
CTGIMT001E	The following error occurred. Error: Either the PostgreSQL host or port is incorrect.	Verify that the host workstation name or the port for the PostgreSQL service is correctly specified.
CTGIMT002E	The login credential is missing or incorrect.	Verify that you provided correct login credential on service form.

<i>Table 9. Warning and error messages (continued)</i>		
Message code	Warning or error message	Remedial action
CTGIMT001E	The following error occurred. Error: No suitable JDBC driver found.	Ensure that the correct version of the JDBC driver is copied onto the workstation where the adapter is installed. Ensure that the path for the driver is included in the system CLASSPATH variable.
CTGIMT600E	An error occurred while establishing communication with the IBM Security Directory Integrator server.	IBM Security Verify Identity IBM Security Verify Governance Identity Manager IBM Security Privileged Identity Manager cannot establish a connection with IBM Security Directory Integrator. To fix this problem, ensure that: <ul style="list-style-type: none"> • IBM Security Directory Integrator is running. • The URL specified on the service form for the IBM Security Directory Integrator is correct.
CTGIMT004E	The adapter does not have permission to add an account: <i>Account_Name</i> .	The administrator user that is provided on the IBM Security Directory Integrator service form does not have the required privileges to add a user account. Ensure that an administrator user with the required privileges is specified on service form. These privileges are the minimum that are required for the administrator user: <ul style="list-style-type: none"> • CREATEROLE - Create Role permission • SUPERUSER - Superuser administrator authority
CTGIMT003E	The account already exists.	Use a different name for the user to be added.
CTGIMT015E	An error occurred while deleting the <i>Account_Name</i> account because the account does not exist.	The user you trying to delete does not exist. Ensure that you are deleting only an existing account.

Related concepts

Techniques for troubleshooting problems

Certain common techniques can help with the task of troubleshooting. The first step in the troubleshooting process is to describe the problem completely.

Configuring debugging

By default, adapters log message in "INFO" level. In order to force the adapter to log detailed message, you must enable "DEBUG" level logging.

Logs

When the adapter is initially configured, a default directory is selected to store the log files that record the adapter activities. Logs can help you determine the background or cause of an issue and to find the proper solution.

Chapter 7. Uninstalling

To remove an adapter from the Identity server for any reason, you must remove all the components that were added during installation. Uninstalling an IBM Security Directory Integrator based adapter mainly involves removing the connector file, and the adapter profile from the Identity server. Depending on the adapter, some of these tasks might not be applicable, or there can be other tasks.

Deleting the adapter profile

Remove the adapter service/target type from the Identity server. Before you delete the adapter profile, ensure that no objects exist on the Identity server that reference the adapter profile.

Objects on the Identity server that can reference the adapter profile:

- Adapter service instances
- Policies referencing an adapter instance or the profile
- Accounts

Note: The Dispatcher component must be installed on your system for adapters to function correctly in a Security Directory Integrator environment. When you delete the adapter profile, do not uninstall the Dispatcher.

For specific information about how to delete the adapter profile, see the IBM Security Verify Identity IBM Security Verify Governance Identity Manager IBM Security Privileged Identity Manager product documentation.

Chapter 8. Reference

Reference information is organized to help you locate particular facts quickly, such as adapter attributes, registry settings, and environment variables.

Adapter attributes

Adapter attributes and object classes are required for customization, creating provisioning rules, and understanding what service/target attributes are supported by the adapter. The Identity server communicates with the adapter by using attributes, which are included in transmission packets that are sent over a network. The PostgreSQL adapter supports a standard set of attributes for user information.

The mandatory attribute to create an account is `User Name`

PostgreSQL adapter attribute name	Description	Required
<code>eruid</code>	User Name	Yes
<code>erPassword</code>	Password for the user ID	No
<code>erAccountStatus</code>	Status of the account (suspended/restored)	No
<code>erPgsQLSysID</code>	User System ID	No
<code>erPgsQLCreateDB</code>	Create databases	No
<code>erPgsQLCanLogin</code>	Can login	No
<code>erPgsQLSuper</code>	SuperUser	No
<code>erPgsQLInherit</code>	Inherit rights from parent Roles	No
<code>erPgsQLCreateRole</code>	Create Roles	No
<code>erPgsQLReplication</code>	Can initiate streaming replication and backups	No
<code>erPgsQLBypassRLS</code>	Bypass every row-level security (RLS) policy	No
<code>erPgsQLValidUntil</code>	Account Expires	No
<code>erPgsQLRoles</code>	Roles Membership	No
<code>erPgsQLSchemaPrivs</code>	Schema Privileges to Users	No

PostgreSQL adapter attribute name	Description	Required
<code>erPgsQLSchemaName</code>	Schema Name	Yes
<code>erPgsQLSchemaCatalogName</code>	Schema Catalog Name	No

<i>Table 12. Supported Role attributes</i>		
PostgreSQL adapter attribute name	Description	Required
erPgSQLRoleName	Role Name	Yes
erPgSQLRoleID	Role ID	No

<i>Table 13. Supported object classes</i>	
Description	Object class name in schema
Service class	erPgSQLService
Account class	erPgSQLAccount
Role class	erPgSQLRole
Schema class	erPgSQLSchema

Adapter attributes by operations

Adapter attributes by operations refer to adapter actions by their functional transaction group. They are required for customization, creating provisioning rules, and understanding what service/target attributes are supported by the adapter.

System Login Add

A System Login Add is a request to create a user account with the specified attributes.

<i>Table 14. Add request attributes</i>	
Required attribute	Optional attribute
eruid	All other supported attributes

System Login Change

A System Login Change is a request to change one or more attributes for the specified users.

<i>Table 15. Change request attributes</i>	
Required attribute	Optional attributes
eruid	All other supported attributes

System Login Suspend

A database login suspend is a request to disable a user account.

The user is not removed. User attributes are not modified. To Suspend the account, `connlimit` value is set to 0.

<i>Table 16. Suspend request attributes</i>	
Required attribute	Optional attribute
eruid	None
erAccountStatus	None

System Login Restore

A System Login Restore is a request to activate a user account that was previously suspended.

After an account is restored, the user can access the system by using the same attributes as the ones before the **Suspend** function is called. When `connlimit` value is set to `-1`, the user account is active.

Required attribute	Optional attribute
eruid	None
erAccountStatus	None

Test

Use Test to verify the connection between the adapter and the Identity server.

Required attribute	Optional attribute
erPgSQLServerHost	None
erPgSQLServerPort	None
erPgSQLDatabaseName	None
erserviceuid	None
erservicepwd1	None

Reconciliation

The Reconciliation request synchronizes user account information between IBM Security Verify Identity IBM Security Verify Governance Identity Manager IBM Security Privileged Identity Manager and the adapter.

Required Attributes	Optional Attributes
None	All other supported Attributes

Adapter configuration properties

For information about setting Security Directory Integrator configuration properties for the operation of the PostgreSQL adapter, see the *Dispatcher Installation and Configuration Guide*.

Special attributes

Certain attributes have special syntax and meaning that customers needs to be aware off. This information will be used to help the customer in how to supply the attribute value. This topic is not applicable for this adapter.

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