



One Identity Manager 9.0

Administration Guide for Connecting to OneLogin

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One Identity LLC.
Attn: LEGAL Dept
4 Polaris Way
Aliso Viejo, CA 92656

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Legend

-  **WARNING: A WARNING icon highlights a potential risk of bodily injury or property damage, for which industry-standard safety precautions are advised. This icon is often associated with electrical hazards related to hardware.**
-  **CAUTION: A CAUTION icon indicates potential damage to hardware or loss of data if instructions are not followed.**

One Identity Manager Administration Guide for Connecting to OneLogin
Updated - 01 August 2022, 16:13
Version - 9.0

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Managing OneLogin domains

One Identity Manager offers simplified user account administration for OneLogin domains. One Identity Manager focuses on setting up and editing user accounts and providing the permissions required for accessing applications and for authentication and authorization.

To equip users with the required permissions, OneLogin roles and OneLogin applications are mapped in One Identity Manager. This makes it possible to use Identity and Access Governance processes, including attestation, Identity Audit, user account management and system entitlements, IT Shop, or report subscriptions for OneLogin domains.

One Identity Manager provides company employees with the user accounts required to allow you to use different mechanisms for connecting employees to their user accounts. You can also manage user accounts independently of employees and therefore set up administrator user accounts.

Additional information about the OneLogin domains is loaded into the One Identity Manager database by synchronization. There are only limited options for customizing this information in One Identity Manager due to the complex dependencies and far-reaching effects of any changes.

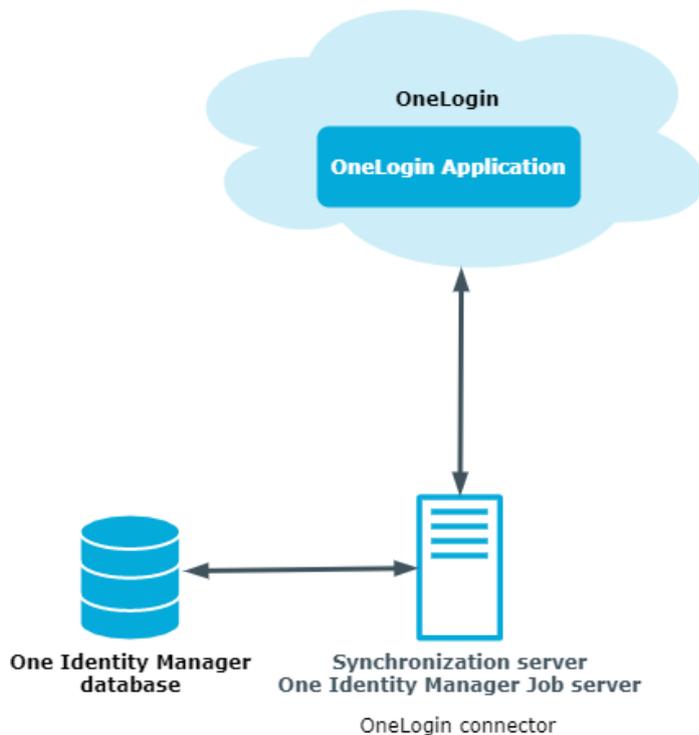
For more information about OneLogin, see your *OneLogin documentation*.

NOTE: The OneLogin Module must be installed as a prerequisite for managing OneLogin domains in One Identity Manager. For more information about installing, see the *One Identity Manager Installation Guide*.

Architecture overview

To access a OneLogin domain's data, the OneLogin connector is installed on a synchronization server. The synchronization server ensures the comparison of data between the One Identity Manager database and OneLogin. The OneLogin is part of the OneLogin Module. The OneLogin API controls access to OneLogin data.

Figure 1: The synchronization architecture



One Identity Manager users for managing a OneLogin domain

The following users are used for setting up and administration of OneLogin.

Table 1: Users

User	Tasks
Target system administrators	<p>Target system administrators must be assigned to the Target systems Administrators application role.</p> <p>Users with this application role:</p> <ul style="list-style-type: none"> • Administer application roles for individual target system types. • Specify the target system manager. • Set up other application roles for target system managers if required. • Specify which application roles for target system

User	Tasks
Target system managers	<p>managers are mutually exclusive.</p> <ul style="list-style-type: none"> • Authorize other employees to be target system administrators. • Do not assume any administrative tasks within the target system. <p>Target system managers must be assigned to the Target systems OneLogin application role or a child application role.</p> <p>Users with this application role:</p> <ul style="list-style-type: none"> • Assume administrative tasks for the target system. • Create, change, or delete target system objects. • Edit password policies for the target system. • Prepare roles to add to the IT Shop. • Can add employees who have another identity than the Primary identity. • Configure synchronization in the Synchronization Editor and define the mapping for comparing target systems and One Identity Manager. • Edit the synchronization's target system types and outstanding objects. • Authorize other employees within their area of responsibility as target system managers and create child application roles if required.
One Identity Manager administrators	<p>One Identity Manager administrator and administrative system users Administrative system users are not added to application roles.</p> <p>One Identity Manager administrators:</p> <ul style="list-style-type: none"> • Create customized permissions groups for application roles for role-based login to administration tools in the Designer as required. • Create system users and permissions groups for non role-based login to administration tools in the Designer as required. • Enable or disable additional configuration parameters in the Designer as required. • Create custom processes in the Designer as required. • Create and configure schedules as required.

User	Tasks
	<ul style="list-style-type: none"> • Create and configure password policies as required.
Administrators for the IT Shop	<p>Administrators must be assigned to the Request & Fulfillment IT Shop Administrators application role.</p> <p>Users with this application role:</p> <ul style="list-style-type: none"> • Assign system entitlements to IT Shop structures.
Product owner for the IT Shop	<p>Product owners must be assigned to the Request & Fulfillment IT Shop Product owners application role or a child application role.</p> <p>Users with this application role:</p> <ul style="list-style-type: none"> • Approve through requests. • Edit service items and service categories under their management.
Administrators for organizations	<p>Administrators must be assigned to the Identity Management Organizations Administrators application role.</p> <p>Users with this application role:</p> <ul style="list-style-type: none"> • Assign system entitlements to departments, cost centers, and locations.
Business roles administrators	<p>Administrators must be assigned to the Identity Management Business roles Administrators application role.</p> <p>Users with this application role:</p> <ul style="list-style-type: none"> • Assign system entitlements to business roles.

Configuration parameters for managing OneLogin environments

Use configuration parameters to configure the behavior of the system's basic settings. One Identity Manager provides default settings for different configuration parameters. Check the configuration parameters and modify them as necessary to suit your requirements.

Configuration parameters are defined in the One Identity Manager modules. Each One Identity Manager module can also install configuration parameters. In the Designer, you can find an overview of all configuration parameters in the **Base data > General > Configuration parameters** category.

For more information, see [Configuration parameters for managing OneLogin domains](#) on page 143.

Synchronizing a OneLogin domain

The One Identity Manager is responsible for synchronizing data between the OneLogin database and One Identity Manager Service.

This sections explains how to:

- Set up synchronization to import initial data from OneLogin domains to the One Identity Manager database.
- Adjust a synchronization configuration, for example, to synchronize different OneLogin domains with the same synchronization project.
- Start and deactivate the synchronization.
- Evaluate the synchronization results.

TIP: Before you set up synchronization with an OneLogin domain, familiarize yourself with the Synchronization Editor. For more information about this tool, see the *One Identity Manager Target System Synchronization Reference Guide*.

Detailed information about this topic

- [Setting up initial synchronization with an OneLogin domain](#) on page 12
- [Customizing the synchronization configuration](#) on page 25
- [Running synchronization](#) on page 35
- [Tasks following synchronization](#) on page 39
- [Troubleshooting](#) on page 42

Setting up initial synchronization with an OneLogin domain

The Synchronization Editor provides a project template that can be used to set up the synchronization of user accounts and permissions for the OneLogin environment. You use these project templates to create synchronization projects with which you import the data from an OneLogin domain into your One Identity Manager database. In addition, the

required processes are created that are used for the provisioning of changes to target system objects from the One Identity Manager database into the target system.

To load OneLogin objects into the One Identity Manager database for the first time

1. Prepare a user account in the OneLogin domain with sufficient permissions for synchronization.
2. One Identity Manager components for managing OneLogin domains are available if the **TargetSystem | OneLogin** configuration parameter is set.
 - In the Designer, check if the configuration parameter is set. Otherwise, set the configuration parameter and compile the database.
NOTE: If you disable the configuration parameter at a later date, model components and scripts that are not longer required, are disabled. SQL procedures and triggers are still carried out. For more information about the behavior of preprocessor relevant configuration parameters and conditional compiling, see the *One Identity Manager Configuration Guide*.
 - Other configuration parameters are installed when the module is installed. Check the configuration parameters and modify them as necessary to suit your requirements.
3. Install and configure a synchronization server and declare the server as a Job server in One Identity Manager.
4. Create a synchronization project with the Synchronization Editor.

Related topics

- [Users and permissions for synchronizing with a OneLogin domain](#) on page 13
- [Setting up a synchronization server for OneLogin domains](#) on page 14
- [Creating a synchronization project for initial synchronization of a OneLogin domain](#) on page 18
- [Configuration parameters for managing OneLogin domains](#) on page 143
- [Default template for OneLogin domains](#) on page 145

Users and permissions for synchronizing with a OneLogin domain

The following users are involved in synchronizing with a OneLogin domain.

Table 2: Users for synchronization

Users	Permissions
Security tokens or	Base64-encrypted client secret or combination of user name

Users	Permissions
users for accessing the OneLogin domain	and password. The Manage All scope is a prerequisite for sufficient permissions.
One Identity Manager Service user account	<p>The user account for the One Identity Manager Service requires user permissions to carry out operations at file level (adding and editing directories and files).</p> <p>The user account must belong to the Domain users group.</p> <p>The user account must have the Login as a service extended user permissions.</p> <p>The user account requires permissions for the internal web service.</p> <p>NOTE: If the One Identity Manager Service runs under the network service (NT Authority\NetworkService), you can grant permissions for the internal web service with the following command line call:</p> <pre>netsh http add urlacl url=http://<IP address>:<port number>/ user="NT AUTHORITY\NETWORKSERVICE"</pre> <p>In the default installation, One Identity Manager is installed under:</p> <ul style="list-style-type: none"> • %ProgramFiles(x86)%\One Identity (on 32-bit operating systems) • %ProgramFiles%\One Identity (on 64-bit operating systems)
User for accessing the One Identity Manager database	The Synchronization default system user is provided to run synchronization using an application server.

Setting up a synchronization server for OneLogin domains

All One Identity Manager Service actions are run against the target system environment on the synchronization server. Data entries required for synchronization and administration with the One Identity Manager database are processed by the synchronization server.

The One Identity Manager Service with the **OneLogin** machine role must be installed on the synchronization server. The **OneLogin** machine role contains the OneLogin connector. The OneLogin connector is implemented for synchronizing and provisioning OneLogin domain objects.

Detailed information about this topic

- [System requirements for the OneLogin synchronization server](#) on page 15
- [Installing One Identity Manager Service with a OneLogin connector](#) on page 15

System requirements for the OneLogin synchronization server

To set up synchronization with a OneLogin domain, a server has to be available that has the following software installed on it:

- Windows operating system
The following versions are supported:
 - Windows Server 2022
 - Windows Server 2019
 - Windows Server 2016
 - Windows Server 2012 R2
 - Windows Server 2012
- Microsoft .NET Framework version 4.8 or later

| **NOTE:** Take the target system manufacturer's recommendations into account.

Installing One Identity Manager Service with a OneLogin connector

The One Identity Manager Service with the **OneLogin** machine role is installed on the synchronization server. The **OneLogin** machine role contains the OneLogin connector. The OneLogin connector is implemented for synchronizing and provisioning OneLogin domain objects.

The synchronization server must be declared as a Job server in One Identity Manager.

Table 3: Properties of the Job server

Property	Value
Server function	OneLogin connector
Machine role	Server Job Server OneLogin

| **NOTE:** If several target system environments of the same type are synchronized under the same synchronization server, it is recommended that you set up a Job server for each target system for performance reasons. This avoids unnecessary swapping of

connections to target systems because a Job server only has to process tasks of the same type (re-use of existing connections).

Use the One Identity Manager Service to install the Server Installer. The program runs the following steps:

- Sets up a Job server.
- Specifies machine roles and server function for the Job server.
- Remotely installs One Identity Manager Service components corresponding to the machine roles.
- Configures the One Identity Manager Service.
- Starts the One Identity Manager Service.

NOTE: The program performs a remote installation of the One Identity Manager Service. Local installation of the service is not possible with this program.

To remotely install the One Identity Manager Service, you must have an administrative workstation on which the One Identity Manager components are installed. For more information about installing a workstation, see the *One Identity Manager Installation Guide*.

NOTE: To generate processes for the Job server, you need the provider, connection parameters, and the authentication data. By default, this information is determined from the database connection data. If the Job server runs through an application server, you must configure extra connection data in the Designer. For more information about setting up Job servers, see the *One Identity Manager Configuration Guide*.

To remotely install and configure One Identity Manager Service on a server

1. Start the Server Installer program on your administrative workstation.
2. On the **Database connection** page, enter the valid connection credentials for the One Identity Manager database.
3. On the **Server properties** page, specify the server on which you want to install the One Identity Manager Service.
 - a. Select a Job server from the **Server** menu.
- OR -
To create a new Job server, click **Add**.
 - b. Enter the following data for the Job server.
 - **Server:** Name of the Job server.
 - **Queue:** Name of the queue to handle the process steps. Each Job server within the network must have a unique queue identifier. The process steps are requested by the Job queue using this exact queue name. The queue identifier is entered in the One Identity Manager Service configuration file.
 - **Full server name:** Full server name in accordance with DNS syntax.

Syntax:

<Name of servers>.<Fully qualified domain name>

NOTE: You can use the **Extended** option to make changes to other properties for the Job server. You can also edit the properties later with the Designer.

4. On the **Machine roles** page, select **OneLogin**.
5. On the **Server functions** page, select **OneLogin connector**.
6. On the **Service Settings** page, enter the connection data and check the One Identity Manager Service configuration.

NOTE: The initial service configuration is predefined. If further changes need to be made to the configuration, you can do this later with the Designer. For more information about configuring the service, see the *One Identity Manager Configuration Guide*.

- For a direct connection to the database:
 1. Select **Process collection > sqlprovider**.
 2. Click the **Connection parameter** entry, then click the **Edit** button.
 3. Enter the connection data for the One Identity Manager database.
 - For a connection to the application server:
 1. Select **Process collection**, click the **Insert** button and select **AppServerJobProvider**.
 2. Click the **Connection parameter** entry, then click the **Edit** button.
 3. Enter the connection data for the application server.
 4. Click the **Authentication data** entry and click the **Edit** button.
 5. Select the authentication module. Depending on the authentication module, other data may be required, such as user and password. For more information about One Identity Manager authentication modules, see the *One Identity Manager Authorization and Authentication Guide*.
7. To configure remote installations, click **Next**.
 8. Confirm the security prompt with **Yes**.
 9. On the **Select installation source** page, select the directory with the install files. Change the directory if necessary.
 10. If the database is encrypted, on the **Select private key file** page, select the file with the private key.
 11. On the **Service access** page, enter the service's installation data.
 - **Computer:** Enter the name or IP address of the server that the service is installed and started on.
 - **Service account:** Enter the details of the user account that the One Identity

Manager Service is running under. Enter the user account, the user account's password and password confirmation.

The service is installed using the user account with which you are logged in to the administrative workstation. If you want to use another user account for installing the service, you can enter it in the advanced options. You can also change the One Identity Manager Service details, such as the installation directory, name, display name, and the One Identity Manager Service description, using the advanced options.

12. Click **Next** to start installing the service.

Installation of the service occurs automatically and may take some time.

13. Click **Finish** on the last page of the Server Installer.

NOTE: In a default installation, the service is entered in the server's service management with the name **One Identity Manager Service**.

Creating a synchronization project for initial synchronization of a OneLogin domain

Use the Synchronization Editor to configure synchronization between the One Identity Manager database and a OneLogin domain. The following describes the steps for initial configuration of a synchronization project.

After the initial configuration, you can customize and configure workflows within the synchronization project. Use the workflow wizard in the Synchronization Editor for this. The Synchronization Editor also provides different configuration options for a synchronization project.

For more information about setting up synchronization, see the *One Identity Manager Target System Synchronization Reference Guide*.

Detailed information about this topic

- [Information required to set up a synchronization project](#) on page 18
- [Creating an initial synchronization project for OneLogin domains](#) on page 20
- [Default template for OneLogin domains](#) on page 145
- [OneLogin connector settings](#) on page 149

Information required to set up a synchronization project

Have the following information available for setting up a synchronization project.

Table 4: Information required to set up a synchronization project

Data	Explanation
Domain	Full OneLogin domain name. Example: <your domain>.onelogin.com
URI of API	URL for reaching the API. Only the part of the URL used in common by all endpoints to be called, is required.
Authentication endpoint	URL available for authenticating. Only the part of the URL added to the common part, is required to reach the authentication endpoints. If authentication of another server or another root URL is used for authentication, the full URL is required.
Client secret or User account and password for logging in	Base64-encrypted client secret or combination of user name and password for logging in. You obtain the client secret when you register your application with OneLogin. For more information, see your <i>OneLogin documentation</i> . If both credentials are present, the security token is preferred.
Application/Client ID	Client ID for the application. You obtain the client ID when you register your application with OneLogin. For more information, see your <i>OneLogin documentation</i> .
Synchronization server for the OneLogin domain	All One Identity Manager Service actions are run against the target system environment on the synchronization server. Data entries required for synchronization and administration with the One Identity Manager database are processed by the synchronization server. The One Identity Manager Service with the OneLogin connector must be installed on the synchronization server. The synchronization server must be declared as a Job server in One Identity Manager. Use the following properties when you set up the Job server. <ul style="list-style-type: none"> • Server function: OneLogin connector • Machine role: Server Job Server OneLogin
One Identity Manager database connection data	<ul style="list-style-type: none"> • Database server • Database name • SQL Server login and password • Specifies whether integrated Windows authentication is used <p>Use of the integrated Windows authentication is not recommended. If you decide to use it anyway, ensure that</p>

Data	Explanation
Remote connection server	<p>your environment supports Windows authentication.</p> <p>To configure synchronization with a target system, One Identity Manager must load the data from the target system. One Identity Manager communicates directly with the target system to do this. Sometimes direct access from the workstation, on which the Synchronization Editor is installed, is not possible. For example, because of the firewall configuration or the workstation does not fulfill the necessary hardware and software requirements.</p> <p>The remote connection server and the workstation must be in the same Active Directory domain.</p> <p>Remote connection server configuration:</p> <ul style="list-style-type: none"> <li>• One Identity Manager Service is started <li>• RemoteConnectPlugin is installed <p>The remote connection server must be declared as a Job server in One Identity Manager. The Job server name is required.</p> <p>For more detailed information about setting up a remote connection, see the <i>One Identity Manager Target System Synchronization Reference Guide</i>.</p>

Related topics

- [Users and permissions for synchronizing with a OneLogin domain](#) on page 13
- [Setting up a synchronization server for OneLogin domains](#) on page 14

Creating an initial synchronization project for OneLogin domains

NOTE: The following sequence describes how to configure a synchronization project if the Synchronization Editor is both:

- Run in default mode
- Started from the Launchpad

If you run the project wizard in expert mode or directly from the Synchronization Editor, additional configuration settings can be made. Follow the project wizard instructions through these steps.

NOTE: Just one synchronization project can be created per target system and default project template used.

To set up an initial synchronization project for a OneLogin-based target system

1. Start the Launchpad and log in on the One Identity Manager database.

NOTE: If synchronization is run by an application server, connect the database through the application server.

2. On the **System access** page, specify how One Identity Manager can access the target system.

- If access is possible from the workstation on which you started the Synchronization Editor, do not change any settings.
- If access is not possible from the workstation on which you started the Synchronization Editor, you can set up a remote connection.

Enable the **Connect using remote connection server** option and select the server to be used for the connection under **Job server**.

3. On the **Connection data** page, enter the connection data for the OneLogin domain.

- **OneLogin domain:** Enter the full name of the OneLogin domain, for example **<your domain>.onelogin.com**.
- **URI of API without version:** Enter the URI under which the API can be reached. Only the part of the URL used in common by all endpoints to be called, is required.

If the complete URL is `https://my-identities.onelogin.com/api/2`, then enter **api** as the URI here. The version part and the object type part are given in the resource configuration.

- **Authentication endpoint/URL:** Enter the URI under which authentication is possible. Only the part of the URL added to the common part, is required to reach the authentication endpoints. If authentication of another server or another root URL is used for authentication, the full URL must be entered here.

If the complete URI is `https://my-identities.onelogin.com/api/auth/oauth2/token`, enter **auth/oauth2/token** here. If the base URL or the server is different to the resource URL, enter the full URL, for example

https://api.us.onelogin.com/auth/oauth2/v2/token.

4. On the **OAuth authentication** page, enter the login credentials and select a grant type.

- **Client secret:** Secret security token for logging in. If the security token is not known, enter the user name and password.
- **User name and password:** User name and password for logging in if the security token is not known.
- **Application/Client ID:** Enter the client ID with which the application is registered in OneLogin.
- **Grant type:** Select the type of access for the login. Enable **Client credentials** or **Password credentials**.

- **Scope:** (Optional) Enter a scope parameter valid for target system login. If several parameters apply, separate them with spaces.
5. On **Verify connection settings** page, you can test the connection. Click **Test**.
One Identity Manager tries to connect to the OneLogin domain.
TIP: One Identity Manager saves the test result. When you reopen the page and the connection data has not changed, the result of the test is displayed. You do not have to run the connection test again if it was successful.
 6. On the **Optimizations** page, you can configure additional settings for optimizing synchronization performance.
 - **Use local cache:** Specify whether to use the OneLogin connector's local cache.

Local cache is used to speed up synchronization. Access to the cloud application is minimized during full synchronization. The option is ignored during provisioning.

It does not make sense to use the cache during synchronization with revision filtering. If the target system supports revision filtering, disable the option after initial synchronization.
 - **Max. number of parallel queries:** Maximum number of target system queries that can be carried out simultaneously. Enter a value between **1** and **32**.
 - **Use HTTP Keep-Alive:** Specifies whether HTTP connections are kept open. If the option is not set, connections are closed immediately and cannot be used for further queries.
 7. On the **Display Name** page, enter a unique display name.
You can use the display names to differentiate between the various connection configurations for the OneLogin REST API.
 8. On the last page of the system connection wizard you can save the connection data locally and finish the system connection configuration.
 - Set the **Save connection locally** option to save the connection data. This can be reused when you set up other synchronization projects.
 - Click **Finish**, to end the system connection wizard and return to the project wizard.
 9. On the **One Identity Manager Connection** tab, test the data for connecting to the One Identity Manager database. The data is loaded from the connected database. Reenter the password.

NOTE:

- If you use an unencrypted One Identity Manager database and have not yet saved any synchronization projects to the database, you need to enter all connection data again.
- This page is not shown if a synchronization project already exists.

10. The wizard loads the target system schema. This may take a few minutes depending on the type of target system access and the size of the target system.
11. On the **Restrict target system access** page, specify how system access should work. You have the following options:

Table 5: Specify target system access

Option	Meaning
	<p>Specifies that a synchronization workflow is only to be set up for the initial loading of the target system into the One Identity Manager database.</p> <p>The synchronization workflow has the following characteristics:</p> <ul style="list-style-type: none"> • Synchronization is in the direction of One Identity Manager. • Processing methods in the synchronization steps are only defined for synchronization in the direction of One Identity Manager.
<p>Read/write access to target system. Provisioning available.</p>	<p>Specifies whether a provisioning workflow is set up in addition to the synchronization workflow for the initial loading of the target system.</p> <p>The provisioning workflow displays the following characteristics:</p> <ul style="list-style-type: none"> • Synchronization is in the direction of the Target system. • Processing methods are only defined in the synchronization steps for synchronization in the direction of the Target system. • Synchronization steps are only created for such schema classes whose schema types have write access.

12. On the **Synchronization server** page, select the synchronization server to run the synchronization.

If the synchronization server is not declared as a Job server in the One Identity Manager database yet, you can add a new Job server.

- a. Click  to add a new Job server.
- b. Enter a name for the Job server and the full server name conforming to DNS syntax.
- c. Click **OK**.

The synchronization server is declared as Job server for the target system in the One Identity Manager database.

- d. **NOTE:** After you save the synchronization project, ensure that this server is set up as a synchronization server.

13. To close the project wizard, click **Finish**.

This sets up, saves and immediately activates the synchronization project.

NOTE:

- If enabled, a consistency check is carried out. If errors occur, a message appears. You can decide whether the synchronization project can remain activated or not.

Check the errors before you use the synchronization project. To do this, in the **General** view on the Synchronization Editor's start page, click **Verify project**.

- If you do not want the synchronization project to be activated immediately, disable the **Activate and save the new synchronization project automatically option**. In this case, save the synchronization project manually before closing the Synchronization Editor.

Related topics

- [Information required to set up a synchronization project](#) on page 18
- [Users and permissions for synchronizing with a OneLogin domain](#) on page 13
- [Setting up a synchronization server for OneLogin domains](#) on page 14
- [Configuring the synchronization log](#) on page 24
- [Customizing the synchronization configuration](#) on page 25
- [Tasks following synchronization](#) on page 39
- [Default template for OneLogin domains](#) on page 145
- [OneLogin connector settings](#) on page 149

Configuring the synchronization log

All the information, tips, warnings, and errors that occur during synchronization are recorded in the synchronization log. You can configure the type of information to record separately for each system connection.

To configure the content of the synchronization log

1. To configure the synchronization log for target system connection, select the **Configuration > Target system** category in the Synchronization Editor.

- OR -

To configure the synchronization log for the database connection, select the **Configuration > One Identity Manager connection** category in the Synchronization Editor.

2. Select the **General** view and click **Configure**.
3. Select the **Synchronization log** view and set **Create synchronization log**.
4. Enable the data to be logged.

NOTE: Some content generates a particularly large volume of log data. The synchronization log should only contain data required for error analysis and other analyzes.

5. Click **OK**.

Synchronization logs are stored for a fixed length of time.

To modify the retention period for synchronization logs

- In the Designer, enable the **DPR | Journal | LifeTime** configuration parameter and enter the maximum retention period.

Related topics

- [Displaying synchronization results](#) on page 37

Customizing the synchronization configuration

Having used the Synchronization Editor to set up a synchronization project for initial synchronization of an OneLogin domain, you can use the synchronization project to load OneLogin objects into the One Identity Manager database. If you manage user accounts and their authorizations with One Identity Manager, changes are provisioned in the OneLogin domain.

You must customize the synchronization configuration in order to compare the database with the OneLogin domain regularly and to synchronize changes.

- To use One Identity Manager as the primary system during synchronization, create a workflow with synchronization in the direction of the **Target system**.
- You can use variables to create generally applicable synchronization configurations that contain the necessary information about the synchronization objects when synchronization starts. Variables can be implemented in base objects, schema classes, or processing method, for example.
- Use variables to set up a synchronization project for synchronizing different domains. Store a connection parameter as a variable for logging in to the domain.
- To specify which OneLogin objects and database objects are included in synchronization, edit the scope of the target system connection and the One Identity Manager database connection. To prevent data inconsistencies, define the same scope in both systems. If no scope is defined, all objects will be synchronized.

- Update the schema in the synchronization project if the One Identity Manager schema or target system schema has changed. Then you can add the changes to the mapping.
- To synchronize additional schema properties, update the schema in the synchronization project. Include the schema extensions in the mapping.

For more information about configuring synchronization, see the *One Identity Manager Target System Synchronization Reference Guide*.

Detailed information about this topic

- [Configuring synchronization in OneLogin domains](#) on page 26
- [Configuring synchronization of several OneLogin domains](#) on page 27
- [Changing system connection settings of OneLogin domains](#) on page 27
- [Updating schemas](#) on page 30
- [Speeding up synchronization with revision filtering](#) on page 31
- [Configuring the provisioning of memberships](#) on page 32
- [Configuring single object synchronization](#) on page 33
- [Accelerating provisioning and single object synchronization](#) on page 34

Configuring synchronization in OneLogin domains

The synchronization project for initial synchronization provides a workflow for initial loading of target system objects (initial synchronization) and one for provisioning object modifications from the One Identity Manager database to the target system (provisioning). To use One Identity Manager as the primary system during synchronization, you also require a workflow with synchronization in the direction of the **Target system**.

To create a synchronization configuration for synchronizing OneLogin domains

1. In the Synchronization Editor, open the synchronization project.
2. Check whether the existing mappings can be used to synchronize into the target system. Create new maps if required.
3. Create a new workflow with the workflow wizard.
This creates a workflow with **Target system** as its direction of synchronization.
4. Create a new start up configuration. Use the new workflow to do this.
5. Save the changes.
6. Run a consistency check.

Detailed information about this topic

- [Configuring synchronization of several OneLogin domains](#) on page 27

Configuring synchronization of several OneLogin domains

In some circumstances, it is possible to use a synchronization project to synchronize different OneLogin domains.

Prerequisites

- The target system schema of both domains are identical.
- All virtual schema properties used in the mapping must exist in the extended schema of both domains.

To customize a synchronization project for synchronizing another domain

1. Prepare a user account with sufficient permissions for synchronizing in the other domain.
2. In the Synchronization Editor, open the synchronization project.
3. Create a new base object for every other domain.
 - Use the wizard to attach a base object.
 - In the wizard, select the OneLogin connector.
 - Declare the connection parameters. The connection parameters are saved in a special variable set.

A start up configuration is created that uses the newly created variable set.

4. Change other elements of the synchronization configuration as required.
5. Save the changes.
6. Run a consistency check.

Related topics

- [Configuring synchronization in OneLogin domains](#) on page 26

Changing system connection settings of OneLogin domains

When you set up synchronization for the first time, the system connection properties are set to default values that you can modify. There are two ways to do this:

- a. Specify a specialized variable set and change the values of the affected variables.
The default values remain untouched in the default variable set. The variables can be reset to the default values at any time. (Recommended action).
- b. Edit the target system connection with the system connection wizard and change the effected values.
The system connection wizard supplies additional explanations of the settings. The default values can only be restored under particular conditions.

Detailed information about this topic

- [Editing connection parameters in the variable set](#) on page 28
- [Editing target system connection properties](#) on page 29
- [OneLogin connector settings](#) on page 149

Editing connection parameters in the variable set

The connection parameters were saved as variables in the default variable set when synchronization was set up. You can change the values in these variables to suit your requirements and assign the variable set to a start up configuration and a base object. This means that you always have the option to use default values from the default variable set.

NOTE: To guarantee data consistency in the connected target system, ensure that the start-up configuration for synchronization and the base object for provisioning use the same variable set. This especially applies if a synchronization project is used for synchronizing different OneLogin domains.

To customize connection parameters in a specialized variable set

1. In the Synchronization Editor, open the synchronization project.
2. Select the **Configuration > Target system** category.
3. Open the **Connection parameters** view.
Some connection parameters can be converted to variables here. For other parameters, variables are already created.
4. Select a parameter and click **Convert**.
5. Select the **Configuration > Variables** category.
All specialized variable sets are shown in the lower part of the document view.
6. Select a specialized variable set or click on  in the variable set view's toolbar.
 - To rename the variable set, select the variable set and click the variable set view in the toolbar . Enter a name for the variable set.
7. Select the previously added variable and enter a new value.
8. Select the **Configuration > Start up configurations** category.
9. Select a start up configuration and click **Edit**.

10. Select the **General** tab.
11. Select the specialized variable set in the **Variable set** menu.
12. Select the **Configuration > Base objects** category.
13. Select the base object and click .
- OR -
- To add a new base object, click .
14. Select the specialized variable set in the **Variable set** menu.
15. Save the changes.

For more information about using variables and variable sets, or restoring default values and adding base objects, see the *One Identity Manager Target System Synchronization Reference Guide*.

Related topics

- [Editing target system connection properties](#) on page 29

Editing target system connection properties

You can also use the system connection wizard to change the connection parameters. If variables are defined for the settings, the changes are transferred to the active variable set.

NOTE: In the following circumstances, the default values cannot be restored:

- The connection parameters are not defined as variables.
- The default variable set is selected as an active variable set.

In both these cases, the system connection wizard overwrites the default values. They cannot be restored at a later time.

To edit connection parameters using the system connection wizard

1. In the Synchronization Editor, open the synchronization project.
2. In the toolbar, select the active variable set to be used for the connection to the target system.
NOTE: If the default variable set is selected, the default values are overwritten and cannot be restored at a later time.
3. Select the **Configuration > Target system** category.
4. Click **Edit connection**.
This starts the system connection wizard.
5. Follow the system connection wizard instructions and change the relevant properties.
6. Save the changes.

Related topics

- [Editing connection parameters in the variable set](#) on page 28

Updating schemas

All the schema data (schema types and schema properties) of the target system schema and the One Identity Manager schema are available when you are editing a synchronization project. Only a part of this data is really needed for configuring synchronization. If a synchronization project is finished, the schema is compressed to remove unnecessary data from the synchronization project. This can speed up the loading of the synchronization project. Deleted schema data can be added to the synchronization configuration again at a later point.

If the target system schema or the One Identity Manager schema has changed, these changes must also be added to the synchronization configuration. Then the changes can be added to the schema property mapping.

To include schema data that have been deleted through compression and schema modifications in the synchronization project, update each schema in the synchronization project. This may be necessary if:

- A schema was changed by:
 - Changes to a target system schema
 - Customizations to the One Identity Manager schema
 - A One Identity Manager update migration
- A schema in the synchronization project was shrunk by:
 - Enabling the synchronization project
 - Saving the synchronization project for the first time
 - Compressing a schema

To update a system connection schema

1. Select the **Configuration > Target system** category.
- OR -
Select the **Configuration > One Identity Manager connection** category.
2. Select the **General** view and click **Update schema**.
3. Confirm the security prompt with **Yes**.
This reloads the schema data.

To edit a mapping

1. In the Synchronization Editor, open the synchronization project.
2. Select the **Mappings** category.

3. Select a mapping in the navigation view.

Opens the Mapping Editor. For more information about mappings, see the *One Identity Manager Target System Synchronization Reference Guide*.

NOTE: The synchronization is deactivated if the schema of an activated synchronization project is updated. Reactivate the synchronization project to synchronize.

Speeding up synchronization with revision filtering

When you start synchronization, all synchronization objects are loaded. Some of these objects have not be modified since the last synchronization and, therefore, must not be processed. Synchronization is accelerated by only loading those object pairs that have changed since the last synchronization. One Identity Manager uses revision filtering to accelerate synchronization.

OneLogin supports revision filtering. The change date of OneLogin objects from the OneLogin change history is used as the revision counter (OLGEvent table). Each synchronization saves the last date it was run as a revision in the One Identity Manager database (DPRRevisionStore table, Value column). This value is used as a comparison for revision filtering when the same workflow is synchronized the next time. When this workflow is synchronized the next time, the OneLogin objects' change date is compared with the revision saved in the One Identity Manager database. Only those objects that have been changed since this date are loaded from the OneLogin domain.

The revision is found at start of synchronization. Objects modified by synchronization are loaded and checked by the next synchronization. This means that the second synchronization after initial synchronization is not significantly faster.

Revision filtering can be applied to workflows and start up configuration.

To permit revision filtering on a workflow

- In the Synchronization Editor, open the synchronization project.
- Edit the workflow properties. Select the **Use revision filter** item from **Revision filtering** menu.

To permit revision filtering for a start up configuration

- In the Synchronization Editor, open the synchronization project.
- Edit the start up configuration properties. Select the **Use revision filter** item from the **Revision filtering** menu.

For more information about revision filtering, see the *One Identity Manager Target System Synchronization Reference Guide*.

Configuring the provisioning of memberships

Memberships, such as user accounts in roles, are saved in assignment tables in the One Identity Manager database. During provisioning of modified memberships, changes made in the target system may be overwritten. This behavior can occur under the following conditions:

- Memberships are saved as an object property in list form in the target system.
Example: List of user accounts in the User property of a OneLogin role (Role)
- Memberships can be modified in either of the connected systems.
- A provisioning workflow and provisioning processes are set up.

If one membership in One Identity Manager changes, by default, the complete list of members is transferred to the target system. Therefore, memberships that were previously added to the target system are removed in the process and previously deleted memberships are added again.

To prevent this, provisioning can be configured such that only the modified membership is provisioned in the target system. The corresponding behavior is configured separately for each assignment table.

To allow separate provisioning of memberships

1. In the Manager, select the **OneLogin > Basic configuration data > Target system types** category.
2. In the result list, select the **OneLogin** target system type.
3. Select the **Configure tables for publishing** task.
4. Select the assignment tables that you want to set up for single provisioning. Multi-select is possible.
5. Click **Merge mode**.

NOTE:

- This option can only be enabled for assignment tables that have a base table with a XDateSubItem column.
- Assignment tables that are grouped together in a virtual schema property in the mapping must be marked identically.

6. Save the changes.

For each assignment table labeled like this, the changes made in One Identity Manager are saved in a separate table. Therefore, only newly added and deleted assignments are processed. During modification provisioning, the members list in the target system is compared to the entries in this table. This means that only modified memberships are provisioned and not the entire members list.

NOTE: The complete members list is updated by synchronization. During this process, objects with changes but incomplete provisioning are not handled. These objects are

logged in the synchronization log.

You can restrict single provisioning of memberships with a condition. Once merge mode has been disabled for a table, the condition is deleted. Tables that have had the condition deleted or edited are marked with the following icon: . You can restore the original condition at any time.

To restore the original condition

1. Select the auxiliary table for which you want to restore the condition.
2. Right-click on the selected row and select the **Restore original values** context menu item.
3. Save the changes.

NOTE: To create the reference to the added or deleted assignments in the condition, use the *i* table alias.

Example of a condition on the `OLGUserInOLGRoIe` assignment table:

```
exists (select top 1 1 from OLGUser g
        where g.UID_OLGUser = i.UID_OLGUser
        and <limiting condition>)
```

For more information about provisioning memberships, see the *One Identity Manager Target System Synchronization Reference Guide*.

Configuring single object synchronization

Changes made to individual objects in the target system can be immediately applied in the One Identity Manager database without having to start a full synchronization of the target system environment. Individual objects can only be synchronized if the object is already present in the One Identity Manager database. The changes are applied to the mapped object properties. If a membership list belongs to one of these properties, the entries in the assignment table will also be updated. If the object is no longer present in the target system, then it is deleted from the One Identity Manager database.

Prerequisites

- A synchronization step exists that can import the changes to the changed object into One Identity Manager.
- The path to the base object of the synchronization is defined for the table that contains the changed object.

Single object synchronization is fully configured for synchronization projects created using the default project template. If you want to incorporate custom tables into this type of synchronization project, you must configure single object synchronization for these tables. For more information about this, see the *One Identity Manager Target System Synchronization Reference Guide*.

To define the path to the base object for synchronization for a table

1. In the Manager, select the **OneLogin > Basic configuration data > Target system types** category.
2. In the result list, select the **OneLogin** target system type.
3. Select the **Assign synchronization tables** task.
4. In the **Add assignments** pane, assign the custom table for which you want to use single object synchronization.
5. Save the changes.
6. Select the **Configure tables for publishing** task.
7. Select the custom table and enter the **Root object path**.
Enter the path to the base object in the ObjectWalker notation of the VI.DB.
Example: `FK(UID_OLGAPIDomain).XObjectKey`
8. Save the changes.

Related topics

- [Synchronizing single objects](#) on page 38
- [Post-processing outstanding objects](#) on page 39

Accelerating provisioning and single object synchronization

To smooth out spikes in data traffic, handling of processes for provisioning and single object synchronization can be distributed over several Job servers. This will also accelerate these processes.

NOTE: You should not implement load balancing for provisioning or single object synchronization on a permanent basis. Parallel processing of objects might result in dependencies not being resolved because referenced objects from another Job server have not been completely processed.

Once load balancing is no longer required, ensure that the synchronization server runs the provisioning processes and single object synchronization.

To configure load balancing

1. Configure the server and declare it as a Job server in One Identity Manager.
 - Job servers that share processing must have the **No process assignment** option enabled.
 - Assign the **OneLogin connector** server function to the Job server.

All Job servers must access the same OneLogin domain as the synchronization server for the respective base object.

2. In the Synchronization Editor, assign a custom server function to the base object.

This server function is used to identify all the Job servers being used for load balancing.

If there is no custom server function for the base object, create a new one.

For more information about editing base objects, see the *One Identity Manager Target System Synchronization Reference Guide*.

3. In the Manager, assign this server function to all the Job servers that will be processing provisioning and single object synchronization for the base object.

Only select those Job servers that have the same configuration as the base object's synchronization server.

Once all the processes have been handled, the synchronization server takes over provisioning and single object synchronization again.

To use the synchronization server without load balancing.

- In the Synchronization Editor, remove the server function from the base object.

For more information about load balancing, see the *One Identity Manager Target System Synchronization Reference Guide*.

Detailed information about this topic

- [Job server for OneLogin-specific process handling](#) on page 137

Running synchronization

Synchronization is started using scheduled process plans. It is possible to start synchronization manually in the Synchronization Editor. You can simulate synchronization beforehand to estimate synchronization results and discover errors in the synchronization configuration. If synchronization stopped unexpectedly, you must reset the start information to be able to restart synchronization.

If you want to specify the order in which target systems are synchronized, use the start up sequence to run synchronization. In a start up sequence, you can combine start up configurations from different synchronization projects and specify the order in which they are run. For more information about start up sequences, see the *One Identity Manager Target System Synchronization Reference Guide*.

Detailed information about this topic

- [Starting synchronization](#) on page 36
- [Deactivating synchronization](#) on page 37

- [Displaying synchronization results](#) on page 37
- [Synchronizing single objects](#) on page 38
- [Pausing handling of target system specific processes \(Offline mode\)](#) on page 43

Starting synchronization

When you set up the initial synchronization project using the Launchpad, a default schedule for regular synchronization is created and assigned. Activate this schedule to synchronize on a regular basis.

To synchronize on a regular basis

1. In the Synchronization Editor, open the synchronization project.
2. Select the **Configuration > Start up configurations** category.
3. Select a start up configuration in the document view and click **Edit schedule**.
4. Edit the schedule properties.
5. To enable the schedule, click **Activate**.
6. Click **OK**.

You can also start synchronization manually if there is no active schedule.

To start initial synchronization manually

1. In the Synchronization Editor, open the synchronization project.
2. Select the **Configuration > Start up configurations** category.
3. Select a start up configuration in the document view and click **Run**.
4. Confirm the security prompt with **Yes**.

IMPORTANT: As long as a synchronization process is running, you must not start another synchronization process for the same target system. This especially applies, if the same synchronization objects would be processed.

- If another synchronization process is started with the same start up configuration, the process is stopped and is assigned **Frozen** status. An error message is written to the One Identity Manager Service log file.
 - Ensure that start up configurations that are used in start up sequences are not started individually at the same time. Assign start up sequences and start up configurations different schedules.
- Starting another synchronization process with different start up configuration that addresses same target system may lead to synchronization errors or loss of data. Specify One Identity Manager behavior in this case, in the start up configuration.
 - Use the schedule to ensure that the start up configurations are run in

sequence.

- Group start up configurations with the same start up behavior.

Deactivating synchronization

Regular synchronization cannot be started until the synchronization project and the schedule are active.

To prevent regular synchronization

1. In the Synchronization Editor, open the synchronization project.
2. Select the start up configuration and deactivate the configured schedule.

Now you can only start synchronization manually.

An activated synchronization project can only be edited to a limited extent. The schema in the synchronization project must be updated if schema modifications are required. The synchronization project is deactivated in this case and can be edited again.

Furthermore, the synchronization project must be deactivated if synchronization should not be started by any means (not even manually).

To deactivate the synchronization project

1. In the Synchronization Editor, open the synchronization project.
2. Select the **General** view on the home page.
3. Click **Deactivate project**.

Detailed information about this topic

- [Creating a synchronization project for initial synchronization of a OneLogin domain](#) on page 18
- [Pausing handling of target system specific processes \(Offline mode\)](#) on page 43

Displaying synchronization results

Synchronization results are summarized in the synchronization log. You can specify the extent of the synchronization log for each system connection individually. One Identity Manager provides several reports in which the synchronization results are organized under different criteria.

To display a synchronization log

1. In the Synchronization Editor, open the synchronization project.
2. Select the **Logs** category.

3. Click ► in the navigation view toolbar.
Logs for all completed synchronization runs are displayed in the navigation view.
4. Select a log by double-clicking it.
An analysis of the synchronization is shown as a report. You can save the report.

To display a provisioning log

1. In the Synchronization Editor, open the synchronization project.
2. Select the **Logs** category.
3. Click ⚡ in the navigation view toolbar.
Logs for all completed provisioning processes are displayed in the navigation view.
4. Select a log by double-clicking it.
An analysis of the provisioning is shown as a report. You can save the report.

The log is marked in color in the navigation view. This mark shows you the status of the synchronization/provisioning.

TIP: The logs are also displayed in the Manager under the **<target system>** **synchronization log** category.

Related topics

- [Configuring the synchronization log](#) on page 24
- [Troubleshooting](#) on page 42

Synchronizing single objects

Individual objects can only be synchronized if the object is already present in the One Identity Manager database. The changes are applied to the mapped object properties. If a membership list belongs to one of these properties, the entries in the assignment table will also be updated.

NOTE: If the object is no longer present in the target system, then it is deleted from the One Identity Manager database.

To synchronize a single object

1. In the Manager, select the **OneLogin** category.
2. Select the object type in the navigation view.
3. In the result list, select the object that you want to synchronize.
4. Select the **Synchronize this object** task.
A process for reading this object is entered in the job queue.

Detailed information about this topic

- [Configuring single object synchronization](#) on page 33

Tasks following synchronization

After the synchronization of data from the target system into the One Identity Manager database, rework may be necessary. Check the following tasks:

- [Post-processing outstanding objects](#) on page 39
- [Adding custom tables to the target system synchronization](#) on page 41
- [Managing OneLogin user accounts through account definitions](#) on page 41

Post-processing outstanding objects

Objects, which do not exist in the target system, can be marked as outstanding in One Identity Manager by synchronizing. This prevents objects being deleted because of an incorrect data situation or an incorrect synchronization configuration.

Outstanding objects:

- Cannot be edited in One Identity Manager.
- Are ignored by subsequent synchronizations.
- Are ignored by inheritance calculations.

This means, all memberships and assignments remain intact until the outstanding objects have been processed.

Start target system synchronization to do this.

To post-process outstanding objects

1. In the Manager, select the **OneLogin > Target system synchronization: OneLogin** category.
The navigation view lists all the synchronization tables assigned to the **OneLogin** target system type.
2. On the **Target system synchronization** form, in the **Table / object** column, open the node of the table for which you want to post-process outstanding objects.
All objects that are marked as outstanding are shown. The **Last log entry** and **Last method run** columns display the time at which the last entry was made in the synchronization log and which processing method was run. The **No log available** entry can mean the following:

- The synchronization log has already been deleted.
- OR -
- An assignment from a member list has been deleted from the target system. The base object of the assignment was updated during the synchronization. A corresponding entry appears in the synchronization log. The entry in the assignment table is marked as outstanding, but there is no entry in the synchronization log.
- An object that contains a member list has been deleted from the target system. During synchronization, the object and all corresponding entries in the assignment tables are marked as outstanding. However, an entry in the synchronization log appears only for the deleted object.

TIP:

To display object properties of an outstanding object

1. Select the object on the target system synchronization form.
 2. Open the context menu and click **Show object**.
3. Select the objects you want to rework. Multi-select is possible.
 4. Click on one of the following icons in the form toolbar to run the respective method.

Table 6: Methods for handling outstanding objects

Icon	Method	Description
	Delete	The object is immediately deleted from the One Identity Manager database. Deferred deletion is not taken into account. Indirect memberships cannot be deleted.
	Publish	The object is added to the target system. The Outstanding label is removed from the object. This runs a target system specific process that triggers the provisioning process for the object. Prerequisites: <ul style="list-style-type: none"> • The table containing the object can be published. • The target system connector has write access to the target system.
	Reset	The Outstanding label is removed for the object.

5. Confirm the security prompt with **Yes**.

NOTE: By default, the selected objects are processed in parallel, which speeds up the selected method. If an error occurs during processing, the action is stopped and all changes are discarded.

Bulk processing of objects must be disabled if errors are to be localized, which means the objects are processed sequentially. Failed objects are named in the error message. All changes that were made up until the error occurred are saved.

To disable bulk processing

- Disable the  icon in the form's toolbar.

NOTE: The target system connector must have write access to the target system in order to publish outstanding objects that are being post-processed. That means, the **Connection is read-only** option must not be set for the target system connection.

Adding custom tables to the target system synchronization

You must customize your target system synchronization to synchronize custom tables.

To add custom tables to target system synchronization

1. In the Manager, select the **OneLogin > Basic configuration data > Target system types** category.
2. In the result list, select the **OneLogin** target system type.
3. Select the **Assign synchronization tables** task.
4. In the Add assignments pane, assign **custom** tables to the outstanding objects you want to handle.
5. Save the changes.
6. Select the **Configure tables for publishing** task.
7. Select the custom tables that contain the outstanding objects that can be published in the target system and set the **Publishable** option.
8. Save the changes.

Related topics

- [Post-processing outstanding objects](#) on page 39

Managing OneLogin user accounts through account definitions

In the default installation, after synchronizing, employees are automatically created for the user accounts. If an account definition for the domain is not known at the time of synchronization, user accounts are linked with employees. However, account definitions are not assigned. The user accounts are therefore in a **Linked** state.

To manage the user accounts using account definitions, assign an account definition and a manage level to these user accounts.

To manage user accounts through account definitions

1. Create an account definition.
2. Assign an account definition to the domain.
3. Assign a user account in the **Linked** state to the account definition. The account definition's default manage level is applied to the user account.
 - a. In the Manager, select the **OneLogin > User accounts > Linked but not configured > Domain>** category.
 - b. Select the **Assign account definition to linked accounts** task.
 - c. In the **Account definition** menu, select the account definition.
 - d. Select the user accounts that contain the account definition.
 - e. Save the changes.

Related topics

- [Account definitions for OneLogin user accounts](#) on page 47

Troubleshooting

Synchronization Editor helps you to analyze and eliminate synchronization errors.

- **Simulating synchronization**

The simulation allows you to estimate the result of synchronization. This means you can, for example, recognize potential errors in the synchronization configuration.
- **Analyzing synchronization**

You can generate the synchronization analysis report for analyzing problems which occur during synchronization, for example, insufficient performance.
- **Logging messages**

One Identity Manager offers different options for logging errors. These include the synchronization log, the log file for One Identity Manager Service, the logging of messages with NLOG, and similar.
- **Reset start information**

If synchronization stopped unexpectedly, for example, because a server was not available, the start information must be reset manually. Only then can the synchronization be restarted.

For more information about these topics, see the *One Identity Manager Target System Synchronization Reference Guide*.

Related topics

- [Displaying synchronization results](#) on page 37

Ignoring data error in synchronization

By default, objects with incorrect data are not synchronized. These objects can be synchronized once the data has been corrected. In certain situations, however, it might be necessary to synchronize objects like these and ignore the data properties that have errors. This synchronization behavior can be configured in One Identity Manager.

To ignoring data errors during synchronization in One Identity Manager

1. In the Synchronization Editor, open the synchronization project.
2. Select the **Configuration > One Identity Manager connection** category.
3. In the **General** view, click **Edit connection**.

This starts the system connection wizard.

4. On the **Additional options** page, enable **Try to ignore data errors**.

This option is only effective if **Continue on error** is set in the synchronization workflow.

Default columns, such as primary keys, UID columns, or mandatory input columns cannot be ignored.

5. Save the changes.

IMPORTANT: If this option is set, One Identity Manager tries to ignore commit errors that could be related to data errors in a single column. This causes the data changed in the affected column to be discarded and the object is subsequently saved again. This effects performance and leads to loss of data.

Only set this option in the exceptional circumstance of not being able to correct the data before synchronization.

Pausing handling of target system specific processes (Offline mode)

If a target system connector is not able to reach the target system temporarily, you can enable offline mode for the target system. This stops target system specific processes from being frozen and having to be manually re-enabled later.

Whether offline mode is generally available for a target system connection is set in the base object of the respective synchronization project. Once a target system is truly unavailable, the target system connection can be switched offline and online again with the Launchpad.

In offline mode, all Job servers assigned to the base object are stopped. This includes the synchronization server and all Job servers involved in load balancing. If one of the Job servers also handles other tasks, these are not processed either.

Prerequisites

Offline mode can only be specified for a base object if certain prerequisites are fulfilled.

- The synchronization server is not used for any other base object as a synchronization server.
- If a server function is assigned to the base object, none of the Job servers with this server function may have any other server function (for example, update server).
- A dedicated synchronization server must be set up to exclusively process the Job queue for this base object. The same applies to all Job servers that are determined by the server function.

To allow offline mode for a base object

1. In the Synchronization Editor, open the synchronization project.
2. Select the **Base objects** category.
3. Select a base object in the document view and click .
4. Enable **Offline mode available**.
5. Click **OK**.
6. Save the changes.

IMPORTANT: To prevent data inconsistencies, the offline phase should be kept as short as possible.

The number of processes to handle depends on the extent of the changes in the One Identity Manager database and their effect on the target system during the offline phase. To establish data consistency between the One Identity Manager database and the target system, all pending processes must be handled before synchronization can start.

Only use offline mode, if possible, for short system downtimes such as maintenance windows.

To flag a target system as offline

1. Start the Launchpad and log in on the One Identity Manager database.
2. Select **Manage > System monitoring > Flag target systems as offline**.
3. Click **Run**.

This opens the **Manage offline systems** dialog. The **Base objects** section displays the base objects of target system connections that can be switched to offline.

4. Select the base object whose target system connection is not available.
5. Click **Switch offline**.
6. Confirm the security prompt with **OK**.

This stops all the Job servers assigned to the base object. No more synchronization or provisioning Jobs are performed. The Job Queue Info program shows when a Job server has been switched offline and the corresponding tasks are not being processed.

For more information about offline mode, see the *One Identity Manager Target System Synchronization Reference Guide*.

Related topics

- [Deactivating synchronization](#) on page 37

Managing OneLogin user accounts and employees

The main feature of One Identity Manager is to map employees together with the main data and permissions available to them in different target systems. To achieve this, information about user accounts and permissions can be read from the target system into the One Identity Manager database and linked to employees. This provides an overview of the permissions for each employee in all of the connected target systems. One Identity Manager offers the option of managing user accounts and their permissions. You can provision modifications in the target systems. Employees are supplied with the necessary permissions in the connected target systems according to their function in the company. Regular synchronization keeps data consistent between target systems and the One Identity Manager database.

Because requirements vary between companies, One Identity Manager offers different methods for supplying user accounts to employees. One Identity Manager supports the following methods for linking employees and their user accounts:

- Employees can automatically obtain their account definitions using user account resources.

If an employee does not yet have a user account in a OneLogin domain, a new user account is created. This is done by assigning account definitions to an employee using the integrated inheritance mechanisms and subsequent process handling.

When you manage account definitions through user accounts, you can specify the way user accounts behave when employees are enabled or deleted.

- When user accounts are inserted, they can be automatically assigned to an existing employee. This mechanism can be implemented if a new user account is created manually or by synchronization. However, this is not the One Identity Manager default method. You must define criteria for finding employees for automatic employee assignment.
- Employees and user accounts can be entered manually and assigned to each other.

For more information about employee handling and administration, see the *One Identity Manager Target System Base Module Administration Guide*.

Related topics

- [Account definitions for OneLogin user accounts on page 47](#)
- [Assigning employees automatically to OneLogin user accounts on page 67](#)
- [Specifying deferred deletion for OneLogin user accounts on page 78](#)
- [Editing main data of OneLogin user accounts on page 114](#)

Account definitions for OneLogin user accounts

One Identity Manager has account definitions for automatically allocating user accounts to employees. You can create account definitions for every target system. If an employee does not yet have a user account in a target system, a new user account is created. This is done by assigning account definitions to an employee.

The data for the user accounts in the respective target system comes from the basic employee data. The employees must have a central user account. The assignment of the IT operating data to the employee's user account is controlled through the primary assignment of the employee to a location, a department, a cost center, or a business role. Processing is done through templates. There are predefined templates for determining the data required for user accounts included in the default installation. You can customize templates as required.

Specify the manage level for an account definition for managing user accounts. The user account's manage level specifies the extent of the employee's properties that are inherited by the user account. This allows an employee to have several user accounts in one target system, for example:

- Default user account that inherits all properties from the employee.
- Administrative user account that is associated to an employee but should not inherit the properties from the employee.

For more detailed information about the principles of account definitions, manage levels, and determining the valid IT operating data, see the *One Identity Manager Target System Base Module Administration Guide*.

The following steps are required to implement an account definition:

- Creating account definitions
- Configuring manage levels
- Creating the formatting rules for IT operating data
- Collecting IT operating data
- Assigning account definitions to employees and target systems

Detailed information about this topic

- [Creating account definitions](#) on page 48
- [Editing account definitions](#) on page 48
- [Main data for an account definition](#) on page 49
- [Editing manage levels](#) on page 51
- [Creating manage levels](#) on page 52
- [Main data for manage levels](#) on page 53
- [Creating mapping rules for IT operating data](#) on page 54
- [Entering IT operating data](#) on page 55
- [Modify IT operating data](#) on page 57
- [Assigning account definitions to employees](#) on page 57
- [Assigning account definitions to OneLogin domains](#) on page 64
- [Deleting account definitions](#) on page 65

Creating account definitions

To create a new account definition

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Click  in the result list.
3. On the main data form, enter the main data of the account definition.
4. Save the changes.

Detailed information about this topic

- [Main data for an account definition](#) on page 49

Editing account definitions

To edit an account definition

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Change main data** task.

4. Enter the account definition's main data.
5. Save the changes.

Related topics

- [Main data for an account definition](#) on page 49
- [Creating account definitions](#) on page 48
- [Assigning manage levels to account definitions](#) on page 53

Main data for an account definition

Enter the following data for an account definition:

Table 7: Main data for an account definition

Property	Description
Account definition	Account definition name.
User account table	Table in the One Identity Manager schema that maps user accounts. For OneLogin user accounts, select OLGUser .
Target system	Target system to which the account definition applies.
Required account definition	Specifies the required account definition. Define the dependencies between account definitions. When this account definition is requested or assigned, the required account definition is assigned automatically. Leave empty for OneLogin domains.
Description	Text field for additional explanation.
Manage level (initial)	Manage level to use by default when you add new user accounts.
Risk index	Value for evaluating the risk of assigning the account definition to employees. Set a value in the range 0 to 1 . This input field is only visible if the QER CalculateRiskIndex configuration parameter is set. For more information, see the <i>One Identity Manager Risk Assessment Administration Guide</i> .
Service item	Service item through which you can request the account definition resource in the IT Shop. Assign an existing service item or add a new one.
IT Shop	Specifies whether the account definition can be requested

Property	Description
Only for use in IT Shop	<p>through the IT Shop. The account definition can be requested by an employee through the Web Portal and distributed using a defined approval process. The resource can also be assigned directly to employees and roles outside the IT Shop.</p> <p>Specifies whether the account definition can only be requested through the IT Shop. The account definition can be requested by an employee through the Web Portal and distributed using a defined approval process. The account definition cannot be directly assigned to roles outside the IT Shop.</p>
Automatic assignment to employees	<p>Specifies whether the account definition is automatically assigned to all internal employees. To automatically assign the account definition to all internal employee, use the Enable automatic assignment to employees. The account definition is assigned to every employee that is not marked as external. Once a new internal employee is created, they automatically obtain this account definition.</p> <p>To automatically remove the account definition assignment from all employees, use the Disable automatic assignment to employees. The account definition cannot be reassigned to employees from this point on. Existing account definition assignments remain intact.</p>
Retain account definition if permanently disabled	<p>Specifies the account definition assignment to permanently deactivated employees.</p> <p>Option set: The account definition assignment remains in effect. The user account remains intact.</p> <p>Option not set (default): The account definition assignment is not in effect. The associated user account is deleted.</p>
Retain account definition if temporarily disabled	<p>Specifies the account definition assignment to temporarily deactivated employees.</p> <p>Option set: The account definition assignment remains in effect. The user account remains intact.</p> <p>Option not set (default): The account definition assignment is not in effect. The associated user account is deleted.</p>
Retain account definition on deferred deletion	<p>Specifies the account definition assignment on deferred deletion of employees.</p> <p>Option set: The account definition assignment remains in effect.</p> <p>Option not set (default): The account definition assignment is not in effect. The associated user account is deleted.</p>

Property	Description
Retain account definition on security risk	<p>Specifies the account definition assignment to employees posing a security risk.</p> <p>Option set: The account definition assignment remains in effect. The user account remains intact.</p> <p>Option not set (default): The account definition assignment is not in effect. The associated user account is deleted.</p>
Resource type	Resource type for grouping account definitions.
Spare field 01 - spare field 10	Additional company-specific information. Use the Designer to customize display names, formats, and templates for the input fields.
Roles can be inherited	Specifies whether the user account can inherit OneLogin roles through the linked employee. If the option is set, the user account inherits the roles through hierarchical roles, in which the employee is a member, or through IT Shop requests.

Editing manage levels

One Identity Manager supplies a default configuration for manage levels:

- **Unmanaged:** User accounts with the **Unmanaged** manage level are linked to the employee but they do not inherit any further properties. When a new user account is added with this manage level and an employee is assigned, some of the employee's properties are transferred initially. If the employee properties are changed at a later date, the changes are not passed onto the user account.
- **Full managed:** User accounts with the **Full managed** manage level inherit defined properties of the assigned employee. When a new user account is created with this manage level and an employee is assigned, the employee's properties are transferred in an initial state. If the employee properties are changed at a later date, the changes are passed onto the user account.

NOTE: The **Full managed** and **Unmanaged** manage levels are analyzed in templates. You can customize the supplied templates in the Designer.

You can define other manage levels depending on your requirements. You need to amend the templates to include manage level approaches.

Specify the effect of temporarily or permanently disabling, deleting, or the security risk of an employee on its user accounts and group memberships for each manage level. For more information about manage levels, see the *One Identity Manager Target System Base Module Administration Guide*.

- Employee user accounts can be locked when they are disabled, deleted, or rated as a security risk so that permissions are immediately withdrawn. If the employee is

reinstated at a later date, the user accounts are also reactivated.

- You can also define group membership inheritance. Inheritance can be discontinued if desired when, for example, the employee's user accounts are disabled and therefore cannot be members in groups. During this time, no inheritance processes should be calculated for this employee. Existing group memberships are deleted.

To edit a manage level

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Manage levels** category.
2. Select the manage level in the result list.
3. Select the **Change main data** task.
4. Edit the manage level's main data.
5. Save the changes.

Related topics

- [Main data for manage levels](#) on page 53
- [Creating manage levels](#) on page 52
- [Assigning manage levels to account definitions](#) on page 53

Creating manage levels

One Identity Manager supplies a default configuration for the **Unmanaged** and **Full managed** manage levels. You can define other manage levels depending on your requirements.

IMPORTANT: In the Designer, extend the templates by adding the procedure for the additional manage levels. For more information about templates, see the *One Identity Manager Configuration Guide*

To create a manage level

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Manage levels** category.
2. Click  in the result list.
3. On the main data form, edit the main data of the manage level.
4. Save the changes.

Related topics

- [Main data for manage levels](#) on page 53
- [Editing account definitions](#) on page 48
- [Assigning manage levels to account definitions](#) on page 53

Assigning manage levels to account definitions

IMPORTANT: The **Unmanaged** manage level is assigned automatically when you create an account definition and it cannot be removed.

To assign manage levels to an account definition

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Assign manage level** task.
4. In the **Add assignments** pane, assign the manage level.

TIP: In the **Remove assignments** pane, you can remove assigned manage levels.

To remove an assignment

- Select the manage level and double-click .
5. Save the changes.

Main data for manage levels

Enter the following data for a manage level.

Table 8: Main data for manage levels

Property	Description
Manage level	Name of the manage level.
Description	Text field for additional explanation.
IT operating data overwrites	Specifies whether user account data formatted from IT operating data is automatically updated. Permitted values are: <ul style="list-style-type: none">• Never: Data is not updated. (Default)• Always: Data is always updated.• Only initially: Data is only determined at the start.
Retain groups if temporarily disabled	Specifies whether user accounts of temporarily deactivated retain their group memberships.
Lock user accounts if temporarily disabled	Specifies whether user accounts of temporarily deactivated employees are locked.
Retain groups if	Specifies whether user accounts of permanently deactivated

Property	Description
permanently disabled	employees retain group memberships.
Lock user accounts if permanently disabled	Specifies whether user accounts of permanently deactivated employees are locked.
Retain groups on deferred deletion	Specifies whether user accounts of employees marked for deletion retain their group memberships.
Lock user accounts if deletion is deferred	Specifies whether user accounts of employees marked for deletion are locked.
Retain groups on security risk	Specifies whether user accounts of employees posing a security risk retain their group memberships.
Lock user accounts if security is at risk	Specifies whether user accounts of employees posing a security risk are locked.
Retain groups if user account disabled	Specifies whether disabled user accounts retain their group memberships.

Creating mapping rules for IT operating data

An account definition specifies which rules are used to form the IT operating data and which default values will be used if no IT operating data can be found through the employee's primary roles.

The following IT operating data is used in the One Identity Manager default configuration for automatically creating user accounts for an employee in the target system and modifying them.

- Roles can be inherited
- Identity
- Privileged user account.

To create a mapping rule for IT operating data

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Edit IT operating data mapping** task.
4. Click **Add** and enter the following information:
 - **Column:** User account property for which the value is set. In the menu, you can select the columns that use the `TSB_ITDataFromOrg` script in their template. For more information about this, see the *One Identity Manager Target System*

Base Module Administration Guide.

- **Source:** Specifies which roles to use in order to find the user account properties. You have the following options:
 - Primary department
 - Primary location
 - Primary cost center
 - Primary business roles

NOTE: The business role can only be used if the Business Roles Module is available.

 - Empty

If you select a role, you must specify a default value and set the **Always use default value** option.
- **Default value:** Default value of the property for an employee's user account if the value is not determined dynamically from the IT operating data.
- **Always use default value:** Specifies whether the user account property is always set with the default value. IT operating data is not determined dynamically from a role.
- **Notify when applying the default:** Specifies whether an email is sent to a specific mailbox when the default value is used. The **Employee - new user account with default properties created** mail template is used.

To change the mail template, in the Designer, adjust the **TargetSystem | OneLogin | Accounts | MailTemplateDefaultValues** configuration parameter.

5. Save the changes.

Related topics

- [Entering IT operating data](#) on page 55

Entering IT operating data

To create user accounts with the **Full managed** manage level, the required IT operating data must be determined. The operating data required to automatically supply an employee with IT resources is shown in the business roles, departments, locations, or cost centers. An employee is assigned a primary business role, primary location, primary department, or primary cost center. The necessary IT operating data is ascertained from these assignments and used in creating the user accounts. Default values are used if valid IT operating data cannot be found over the primary roles.

You can also specify IT operating data directly for a specific account definition.

Example:

Normally, each employee in department A obtains a default user account in the domain A. In addition, certain employees in department A obtain administrative user accounts in the domain A.

Create an account definition A for the default user account of the domain A and an account definition B for the administrative user account of domain A. In the IT operating data mapping rule for the account definitions A and B, specify the **Department** property in order to determine the valid IT operating data.

Specify the effective IT operating data of department A for the domain A. This IT operating data is used for standard user accounts. In addition, for department A, specify the effective IT operating data of account definition B. This IT operating data is used for administrative user accounts.

To define IT operating data

1. In the Manager, select the role in the **Organizations** or **Business roles** category.
2. Select the **Edit IT operating data** task.
3. Click **Add** and enter the following data.
 - **Effects on:** Specify an IT operating data application scope. The IT operating data can be used for a target system or a defined account definition.

To specify an application scope

- a. Click  next to the field.
 - b. Under **Table**, select the table that maps the target system for select the `TSBAccountDef` table or an account definition.
 - c. Select the specific target system or account definition under **Effects on**.
 - d. Click **OK**.
- **Column:** Select the user account property for which the value is set.
In the menu, you can select the columns that use the `TSB_ITDataFromOrg` script in their template. For more information about this, see the *One Identity Manager Target System Base Module Administration Guide*.
 - **Value:** Enter a fixed value to assign to the user account's property.
4. Save the changes.

Related topics

- [Creating mapping rules for IT operating data](#) on page 54

Modify IT operating data

If IT operating data changes, you must transfer the changes to the existing user accounts. To do this, templates must be rerun on the affected columns. Before you can run the templates, you can check what effect a change to the IT operating data has on the existing user accounts. You can decide whether the change is transferred to the One Identity Manager database in the case of each affected column in each affected database.

Prerequisites

- The IT operating data of a department, a cost center, a business role, or a location have been changed.
- OR -
- The default values in the IT operating data template were modified for an account definition.

NOTE: If the assignment of an employee to a primary department, cost center, to a primary business role or to a primary location changes, the templates are automatically run.

To run the template

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Run templates** task.

This displays a list of all user accounts that were created with the selected account definition and whose properties were changed by modifying the IT operating data. That means:

- **Old value:** Value of the object property before changing the IT operating data.
 - **New value:** Value of the object property after changing the IT operating data.
 - **Selection:** Specifies whether the new value is copied to the user account.
4. Mark all the object properties in the **selection** column that will be given the new value.
 5. Click **Apply**.

The templates are applied to all selected user accounts and properties.

Assigning account definitions to employees

Account definitions are assigned to company employees.

Indirect assignment is the default method for assigning account definitions to employees. Account definitions are assigned to departments, cost centers, locations, or roles. The

employees are categorized into these departments, cost centers, locations, or roles depending on their function in the company and thus obtain their account definitions. To react quickly to special requests, you can assign individual account definitions directly to employees.

You can automatically assign special account definitions to all company employees. It is possible to assign account definitions to the IT Shop as requestable products. Department managers can then request user accounts from the Web Portal for their staff. It is also possible to add account definitions to system roles. These system roles can be assigned to employees through hierarchical roles or added directly to the IT Shop as products.

In the One Identity Manager default installation, the processes are checked at the start to see if the employee already has a user account in the target system that has an account definition. If no user account exists, a new user account is created with the account definition's default manage level.

NOTE: If a user account already exists and is disabled, then it is re-enabled. In this case, you must change the user account manage level afterward.

NOTE: As long as an account definition for an employee is valid, the employee retains the user account that was created by it. If the account definition assignment is removed, the user account that was created from this account definition, is deleted.

Prerequisites for indirect assignment of account definitions to employees

- Assignment of employees and account definitions is permitted for role classes (departments, cost centers, locations, or business roles).

To configure assignments to roles of a role class

1. In the Manager, select role classes in the **Organizations > Basic configuration data > Role classes** category.
- OR -
In the Manager, select role classes in the **Business roles > Basic configuration data > Role classes** category.
2. Select the **Configure role assignments** task and configure the permitted assignments.
 - To generally allow an assignment, enable the **Assignments allowed** column.
 - To allow direct assignment, enable the **Direct assignments permitted** column.
3. Save the changes.

For more information about preparing role classes to be assigned, see the *One Identity Manager Identity Management Base Module Administration Guide*.

Detailed information about this topic

- [Assigning account definitions to departments, cost centers, and locations](#) on page 59
- [Assigning account definitions to business roles](#) on page 59

- [Assigning account definitions to all employees](#) on page 60
- [Assigning account definitions directly to employees](#) on page 61
- [Assigning account definitions to system roles](#) on page 61
- [Adding account definitions to the IT Shop](#) on page 62

Assigning account definitions to departments, cost centers, and locations

To add account definitions to hierarchical roles

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Assign organizations** task.
4. In the **Add assignments** pane, assign the organizations:
 - On the **Departments** tab, assign departments.
 - On the **Locations** tab, assign locations.
 - On the **Cost centers** tab, assign cost centers.

TIP: In the **Remove assignments** pane, you can remove assigned organizations.

To remove an assignment

- Select the organization and double-click .
5. Save the changes.

Related topics

- [Assigning account definitions to business roles](#) on page 59
- [Assigning account definitions to all employees](#) on page 60
- [Assigning account definitions directly to employees](#) on page 61
- [Assigning account definitions to system roles](#) on page 61
- [Adding account definitions to the IT Shop](#) on page 62

Assigning account definitions to business roles

NOTE: This function is only available if the Business Roles Module is installed.

To add account definitions to hierarchical roles

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Assign business roles** task.
4. In the **Add assignments** pane, select the role class and assign business roles.

TIP: In the **Remove assignments** pane, you can remove assigned business roles.

To remove an assignment

- Select the business role and double-click .
5. Save the changes.

Related topics

- [Assigning account definitions to departments, cost centers, and locations](#) on page 59
- [Assigning account definitions to all employees](#) on page 60
- [Assigning account definitions directly to employees](#) on page 61
- [Assigning account definitions to system roles](#) on page 61
- [Adding account definitions to the IT Shop](#) on page 62

Assigning account definitions to all employees

Use this task to assign the account definition to all internal employees. Employees that are marked as external do not obtain this account definition. Once a new internal employee is created, they automatically obtain this account definition. The assignment is calculated by the DBQueue Processor.

IMPORTANT: Only run this task if you can ensure that all current internal employees in the database and all pending newly added internal employees obtain a user account in this target system.

To assign an account definition to all employees

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Change main data** task.
4. Select the **Disable automatic assignment to employees** task.
5. Confirm the security prompt with **Yes**.
6. Save the changes.

NOTE: To automatically remove the account definition assignment from all employees, run the [DISABLE AUTOMATIC ASSIGNMENT TO EMPLOYEES](#) task. The account definition cannot be reassigned to employees from this point on. Existing assignments remain intact.

Related topics

- [Assigning account definitions to departments, cost centers, and locations](#) on page 59
- [Assigning account definitions to business roles](#) on page 59
- [Assigning account definitions directly to employees](#) on page 61
- [Assigning account definitions to system roles](#) on page 61
- [Adding account definitions to the IT Shop](#) on page 62

Assigning account definitions directly to employees

To assign an account definition directly to employees

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Assign to employees** task.
4. In the **Add assignments** pane, add employees.

TIP: In the **Remove assignments** pane, you can remove assigned employees.

To remove an assignment

- Select the employee and double-click .
5. Save the changes.

Related topics

- [Assigning account definitions to departments, cost centers, and locations](#) on page 59
- [Assigning account definitions to business roles](#) on page 59
- [Assigning account definitions to all employees](#) on page 60
- [Assigning account definitions to system roles](#) on page 61
- [Adding account definitions to the IT Shop](#) on page 62

Assigning account definitions to system roles

NOTE: This function is only available if the System Roles Module is installed.

Account definitions with the **Only use in IT Shop** option can only be assigned to system roles that also have this option set.

To add account definitions to a system role

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Assign system roles** task.
4. In the **Add assignments** pane, assign system roles.

TIP: In the **Remove assignments** pane, you can remove the system role assignment.

To remove an assignment

- Select the system role and double-click .
5. Save the changes.

Related topics

- [Assigning account definitions to departments, cost centers, and locations](#) on page 59
- [Assigning account definitions to business roles](#) on page 59
- [Assigning account definitions to all employees](#) on page 60
- [Assigning account definitions directly to employees](#) on page 61
- [Adding account definitions to the IT Shop](#) on page 62

Adding account definitions to the IT Shop

An account definition can be requested by shop customers when it is assigned to an IT Shop shelf. To ensure it can be requested, further prerequisites need to be guaranteed.

- The account definition must be labeled with the **IT Shop** option.
- The account definition must be assigned to a service item.

TIP: In the Web Portal, all products that can be requested are grouped together by service category. To make the account definition easier to find in the Web Portal, assign a service category to the service item.

- If the account definition is only assigned to employees using IT Shop assignments, you must also set the **Only for use in IT Shop** option. Direct assignment to hierarchical roles may not be possible.

NOTE: IT Shop administrators can assign account definitions to IT Shop shelves if login is role-based. Target system administrators are not authorized to add account definitions in the IT Shop.

To add an account definition to the IT Shop (role-based login)

1. In the Manager, select the **Entitlements > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Add to IT Shop** task.
4. In the **Add assignments** pane, assign the account definitions to the IT Shop shelves.
5. Save the changes.

To add an account definition to the IT Shop (non role-based login)

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Add to IT Shop** task.
4. In the **Add assignments** pane, assign the account definitions to the IT Shop shelves.
5. Save the changes.

To remove an account definition from individual IT Shop shelves (role-based login)

1. In the Manager, select the **Entitlements > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Add to IT Shop** task.
4. In the **Remove assignments** pane, remove the account definitions from the IT Shop shelves.
5. Save the changes.

To remove an account definition from individual IT Shop shelves (non role-based login)

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Add to IT Shop** task.
4. In the **Remove assignments** pane, remove the account definitions from the IT Shop shelves.
5. Save the changes.

To remove an account definition from all IT Shop shelves (role-based login)

1. In the Manager, select the **Entitlements > Account definitions** category.
2. Select an account definition in the result list.

3. Select the **Remove from all shelves (IT Shop)** task.
4. Confirm the security prompt with **Yes**.
5. Click **OK**.

The account definition is removed from all shelves by the One Identity Manager Service. At the same time, any requests and assignment requests with this account definition are canceled.

To remove an account definition from all IT Shop shelves (non role-based login)

1. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
2. Select an account definition in the result list.
3. Select the **Remove from all shelves (IT Shop)** task.
4. Confirm the security prompt with **Yes**.
5. Click **OK**.

The account definition is removed from all shelves by the One Identity Manager Service. At the same time, any requests and assignment requests with this account definition are canceled.

For more information about requesting company resources through the IT Shop, see the *One Identity Manager IT Shop Administration Guide*.

Related topics

- [Main data for an account definition](#) on page 49
- [Assigning account definitions to departments, cost centers, and locations](#) on page 59
- [Assigning account definitions to business roles](#) on page 59
- [Assigning account definitions to all employees](#) on page 60
- [Assigning account definitions directly to employees](#) on page 61
- [Assigning account definitions to system roles](#) on page 61

Assigning account definitions to OneLogin domains

The following prerequisites must be fulfilled if you implement automatic assignment of user accounts and employees resulting in administered user accounts (**Linked configured** state):

- The account definition is assigned to the target system.
- The account definition has the default manage level.

User accounts are only linked to the employee (**Linked** state) if no account definition is given. This is the case on initial synchronization, for example.

To assign the account definition to a target system

1. In the Manager, select the domain in the **OneLogin > Domains** category.
2. Select the **Change main data** task.
3. From the **Account definition (initial)** menu, select the account definition for user accounts.
4. Save the changes.

Detailed information about this topic

- [Assigning employees automatically to OneLogin user accounts](#) on page 67

Deleting account definitions

You can delete account definitions if they are not assigned to target systems, employees, hierarchical roles or any other account definitions.

To delete an account definition

1. Remove automatic assignments of the account definition from all employees.
 - a. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
 - b. Select an account definition in the result list.
 - c. Select the **Change main data** task.
 - d. Select the **Disable automatic assignment to employees** task.
 - e. Confirm the security prompt with **Yes**.
 - f. Save the changes.
2. Remove direct assignments of the account definition to employees.
 - a. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
 - b. Select an account definition in the result list.
 - c. Select the **Assign to employees** task.
 - d. In the **Remove assignments** pane, remove employees.
 - e. Save the changes.
3. Remove the account definition's assignments to departments, cost centers, and locations.
 - a. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
 - b. Select an account definition in the result list.

- c. Select the **Assign organizations** task.
 - d. In the **Remove assignments** pane, remove the relevant departments, cost centers, and locations.
 - e. Save the changes.
4. Remove the account definition's assignments to business roles.
 - a. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
 - b. Select an account definition in the result list.
 - c. Select the **Assign business roles** task.
 - d. In the **Remove assignments** pane, remove the business roles.
 - e. Save the changes.
 5. If the account definition was requested through the IT Shop, it must be canceled and removed from all IT Shop shelves.

For more detailed information about unsubscribing requests, see the *One Identity Manager Web Designer Web Portal User Guide*.

To remove an account definition from all IT Shop shelves (role-based login)

- a. In the Manager, select the **Entitlements > Account definitions** category.
- b. Select an account definition in the result list.
- c. Select the **Remove from all shelves (IT Shop)** task.
- d. Confirm the security prompt with **Yes**.
- e. Click **OK**.

The account definition is removed from all shelves by the One Identity Manager Service. At the same time, any requests and assignment requests with this account definition are canceled.

To remove an account definition from all IT Shop shelves (non role-based login)

- a. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
- b. Select an account definition in the result list.
- c. Select the **Remove from all shelves (IT Shop)** task.
- d. Confirm the security prompt with **Yes**.
- e. Click **OK**.

The account definition is removed from all shelves by the One Identity Manager Service. At the same time, any requests and assignment requests with this account definition are canceled.

6. Remove the required account definition assignment. As long as the account definition is required for another account definition, it cannot be deleted. Check all the account definitions.
 - a. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
 - b. Select an account definition in the result list.
 - c. Select the **Change main data** task.
 - d. From the **Required account definition** menu, remove the account definition.
 - e. Save the changes.
7. Remove the account definition's assignments to target systems.
 - a. In the Manager, select the domain in the **OneLogin > Domains** category.
 - b. Select the **Change main data** task.
 - c. On the **General** tab, remove the assigned account definitions.
 - d. Save the changes.
8. Delete the account definition.
 - a. In the Manager, select the **OneLogin > Basic configuration data > Account definitions > Account definitions** category.
 - b. Select an account definition in the result list.
 - c. Click  to delete an account definition.

Assigning employees automatically to OneLogin user accounts

When you add a user account, an existing employee can automatically be assigned to it. If necessary, a new employee can be created. The identity's main data is created on the basis of existing user account main data. This mechanism can be triggered after a new user account is created either manually or through synchronization.

Define criteria for finding employees to apply to automatic employee assignment. If a user account is linked to an employee through the current mode, the user account is given, through an internal process, the default manage level of the account definition entered in the user account's target system. You can customize user account properties depending on how the behavior of the manage level is defined.

If you run this procedure during working hours, automatic assignment of employees to user accounts takes place from that moment onwards. If you disable the procedure again later, the changes only affect user accounts added or updated after this point in time. Existing employee assignments to user accounts remain intact.

NOTE: It is not recommended to assign employees using automatic employee assignment in the case of administrative user accounts. Use **Change main data** to assign employees to administrative user accounts for the respective user account.

For more information about assigning employees automatically, see the *One Identity Manager Target System Base Module Administration Guide*.

Run the following tasks to assign employees automatically:

- If you want employees to be assigned during the synchronization of user accounts, in the Designer, set the **TargetSystem | OneLogin | PersonAutoFullsync** configuration parameter and select the required mode.
- If you want employees to be assigned outside synchronization, in the Designer, set the **TargetSystem | OneLogin | PersonAutoDefault** configuration parameter and select the required mode.
- Use the **TargetSystem | OneLogin | PersonAutoDisabledAccounts** configuration parameter to specify whether employees can be automatically assigned to disabled user accounts. User accounts are not given an account definition.
- Assign an account definition to the domain. Ensure that the manage level to be used is entered as the default manage level.
- Define the search criteria for employees assigned in the domain.

NOTE:

The following applies for synchronization:

- Automatic employee assignment takes effect if user accounts are added or updated.

The following applies outside synchronization:

- Automatic employee assignment takes effect if user accounts are added.

NOTE:

In the default installation, after synchronizing, employees are automatically created for the user accounts. If an account definition for the domain is not known at the time of synchronization, user accounts are linked with employees. However, account definitions are not assigned. The user accounts are therefore in a **Linked** state.

To manage the user accounts using account definitions, assign an account definition and a manage level to these user accounts.

For more information, see [Managing OneLogin user accounts through account definitions](#) on page 41.

Related topics

- [Creating account definitions](#) on page 48
- [Assigning account definitions to OneLogin domains](#) on page 64
- [Changing manage levels for OneLogin user accounts](#) on page 72
- [Editing search criteria for automatic employee assignment](#) on page 69

Editing search criteria for automatic employee assignment

NOTE: First, an attempt is made to determine an Active Directory user account and assign its associated employee to the OneLogin user account. If no matching Active Directory user account is found, the search criteria will be used to identify an employee.

If other directory services, such as LDAP, are used to determine a user account and the employee assigned to it, in the Designer, alter the `OLG_PersonAuto_Mapping_OLGUser` script.

NOTE: One Identity Manager supplies a default mapping for employee assignment. Only carry out the following steps when you want to customize the default mapping.

The criteria for employee assignments are defined for the domain. You specify which user account properties must match the employee's properties such that the employee can be assigned to the user account. You can limit search criteria further by using format definitions.

The search criterion is written in XML notation to the **Search criteria for automatic employee assignment** column (`AccountToPersonMatchingRule`) in the `OLGAPIDomain` table.

Search criteria are evaluated when employees are automatically assigned to user accounts. Furthermore, you can create a suggestion list for assignments of employees to user accounts based on the search criteria and make the assignment directly.

NOTE: Object definitions for user accounts that can have search criteria applied to them are predefined. For example, if you require other objects definitions that limit a preselection of user accounts, set up the respective custom object definitions in the Designer. For more information, see the *One Identity Manager Configuration Guide*.

To specify criteria for employee assignment

1. In the Manager, select the **OneLogin > Domains** category.
2. Select the domain in the result list.
3. Select the **Define search criteria for employee assignment** task.
4. Specify which user account properties must match with which employee so that the employee is linked to the user account.

Table 9: Search criteria for user accounts

Apply to	Employee column	User account column
OneLogin user accounts	Default email address (DefaultEmailAddress)	Email address (EMail)

5. Save the changes.

For more information about defining search criteria, see the *One Identity Manager Target System Base Module Administration Guide*.

Related topics

- [Finding employees and directly assigning them to user accounts](#) on page 70
- [Assigning employees automatically to OneLogin user accounts](#) on page 67

Finding employees and directly assigning them to user accounts

Based on the search criteria, you can create a suggestion list for the assignment of employees to user accounts and make the assignment directly. User accounts are grouped in different views for this.

Table 10: Manual assignment view

View	Description
Suggested assignments	This view lists all user accounts to which One Identity Manager can assign an employee. All employees are shown who were found using the search criteria and can be assigned.
Assigned user accounts	This view lists all user accounts to which an employee is assigned.
Without employee assignment	This view lists all user accounts to which no employee is assigned and for which no employee was found using the search criteria.

To apply search criteria to user accounts

1. In the Manager, select the **OneLogin > Domains** category.
2. Select the domain in the result list.
3. Select the **Define search criteria for employee assignment** task.
4. At the bottom of the form, click **Reload**.

All possible assignments based on the search criteria are found in the target system for all user accounts. The three views are updated.

TIP: By double-clicking on an entry in the view, you can view the user account and employee main data.

The assignment of employees to user accounts creates connected user accounts (**Linked** state). To create managed user accounts (**Linked configured** state), you can assign an account definition at the same time.

To assign employees directly over a suggestion list

- Click **Suggested assignments**.
 1. Click the **Selection** box of all user accounts to which you want to assign the suggested employees. Multi-select is possible.
 2. (Optional) Select an account definition in the **Assign this account definition** menu, and select a manage level in the **Assign this account manage level** menu.
 3. Click **Assign selected**.
 4. Confirm the security prompt with **Yes**.

The employees determined using the search criteria are assigned to the selected user accounts. If an account definition was selected, this is assigned to all selected user accounts.
- OR -
- Click **No employee assignment**.
 1. Click **Select employee** for the user account to which you want to assign an employee. Select an employee from the menu.
 2. Click the **Selection** box of all user accounts to which you want to assign the selected employees. Multi-select is possible.
 3. (Optional) Select an account definition in the **Assign this account definition** menu, and select a manage level in the **Assign this account manage level** menu.
 4. Click **Assign selected**.
 5. Confirm the security prompt with **Yes**.

The employees displayed in the **Employee** column are assigned to the selected user accounts. If an account definition was selected, this is assigned to all selected user accounts.

To remove assignments

- Click **Assigned user accounts**.
 1. Click the **Selection** box of all the user accounts you want to delete the employee assignment from. Multi-select is possible.
 2. Click **Remove selected**.
 3. Confirm the security prompt with **Yes**.

The assigned employees are removed from the selected user accounts.

Changing manage levels for OneLogin user accounts

The default manage level is applied if you create user accounts using automatic employee assignment. You can change a user account manage level later.

To change the manage level for a user account

1. Select the user account in the result list.
2. Select the **Change main data** task.
3. Select the manage level in the **Manage level** list on the **General** tab.
4. Save the changes.

Related topics

- [Editing main data of OneLogin user accounts](#) on page 114

Supported user account types

Different types of user accounts, such as default user accounts, administrative user accounts, service accounts, or privileged user accounts, can be mapped in One Identity Manager.

The following properties are used for mapping different user account types.

- Identity

The **Identity** property (IdentityType column) is used to describe the type of user account.

Table 11: Identities of user accounts

Identity	Description	Value of the IdentityType column
Primary identity	Employee's default user account.	Primary
Organizational identity	Secondary user account used for different roles in the organization, for example for subcontracts with other functional areas.	Organizational
Personalized admin identity	User account with administrative permissions, used by one employee.	Admin

Identity	Description	Value of the IdentityType column
Sponsored identity	User account used for a specific purpose. For example, for training purposes.	Sponsored
Shared identity	User account with administrative permissions, used by several employees.	Shared
Service identity	Service account.	Service

NOTE: To enable working with identities for user accounts, the employees also need identities. You can only link user accounts to which an identity is assigned with employees who have this same identity.

The primary identity, the organizational identity, and the personalized admin identity are used for different user accounts, which can be used by the same actual employee to perform their different tasks within the company.

To provide user accounts with a personalized admin identity or an organizational identity for an employee, you create subidentities for the employee. These subidentities are then linked to user accounts, enabling you to assign the required permissions to the different user accounts.

User accounts with a sponsored identity, shared identity, or service identity are linked to pseudo employees that do not refer to a real employee. These pseudo employees are needed so that permissions can be inherited by the user accounts. When evaluating reports, attestations, or compliance checks, check whether pseudo employees need to be considered separately.

For more information about mapping employee identities, see the *One Identity Manager Identity Management Base Module Administration Guide*.

- Privileged user account

Privileged user accounts are used to provide employees with additional privileges. This includes administrative user accounts or service accounts, for example. The user accounts are labeled with the **Privileged user account** property (IsPrivilegedAccount column).

Detailed information about this topic

- [Default user accounts](#) on page 74
- [Administrative user accounts](#) on page 74
- [Providing administrative user accounts for one employee](#) on page 75
- [Providing administrative user accounts for several employees](#) on page 76
- [Privileged user accounts](#) on page 77

Default user accounts

Normally, each employee obtains a default user account, which has the permissions they require for their regular work. The user accounts are linked to the employee. The effect of the link and the scope of the employee's inherited properties on the user accounts can be configured through an account definition and its manage levels.

To create default user accounts through account definitions

1. Create an account definition and assign the **Unmanaged** and **Full managed** manage levels.
2. Specify the effect of temporarily or permanently disabling, deleting, or the security risk of an employee on its user accounts and group memberships for each manage level.
3. Create a formatting rule for IT operating data.

You use the mapping rule to define which rules are used to map IT operating data for user accounts and which default values are used if no IT operating data can be determined through a person's primary roles.

The type of IT operating data required depends on the target system. The following settings are recommended for default user accounts:

- In the mapping rule for the `IsGroupAccount_Role` column, use the default value **1** and enable the **Always use default value** option.
 - In the mapping rule for the `IdentityType` column, use the default value **Primary** and enable **Always use default value**.
4. Enter the effective IT operating data for the target system. Select the concrete target system under **Effects on**.

Specify in the departments, cost centers, locations, or business roles that IT operating data should apply when you set up a user account.

5. Assign the account definition to employees.

When the account definition is assigned to an employee, a new user account is created through the inheritance mechanism and subsequent processing.

Related topics

- [Account definitions for OneLogin user accounts](#) on page 47

Administrative user accounts

An administrative user account must be used for certain administrative tasks. Administrative user accounts are usually predefined by the target system and have fixed names and login names, such as **Administrator**.

Administrative user accounts are imported into One Identity Manager during synchronization.

NOTE: Some administrative user accounts can be automatically identified as privileged user accounts. To do this, in the Designer, enable the **Mark selected user accounts as privileged** schedule.

Related topics

- [Providing administrative user accounts for one employee](#) on page 75
- [Providing administrative user accounts for several employees](#) on page 76

Providing administrative user accounts for one employee

Prerequisites

- The user account must be labeled as a personalized admin identity.
- The employee who will be using the user account must be labeled as a personalized admin identity.
- The employee who will be using the user account must be linked to a main identity.

To prepare an administrative user account for a person

1. Label the user account as a personalized admin identity.
 - a. In the Manager, select the **OneLogin > User accounts** category.
 - b. Select the user account in the result list.
 - c. Select the **Change main data** task.
 - d. On the **General** tab, in the **Identity** selection list, select **Personalized administrator identity**.
2. Link the user account to the employee who will be using this administrative user account.
 - a. In the Manager, select the **OneLogin > User accounts** category.
 - b. Select the user account in the result list.
 - c. Select the **Change main data** task.
 - d. On the **General** tab, in the **Person** selection list, select the employee who will be using this administrative user account.

TIP: If you are the target system manager, you can choose  to create a new person.

Related topics

- [Providing administrative user accounts for several employees](#) on page 76
- For more information about mapping employee identities, see the *One Identity Manager Identity Management Base Module Administration Guide*.

Providing administrative user accounts for several employees

Prerequisite

- The user account must be labeled as a shared identity.
- A pseudo employee must exist. The pseudo employee must be labeled as a shared identity and must have a manager.
- The employees who are permitted to use the user account must be labeled as a primary identity.

To prepare an administrative user account for multiple employees

1. Label the user account as a shared identity.
 - a. In the Manager, select the **OneLogin > User accounts** category.
 - b. Select the user account in the result list.
 - c. Select the **Change main data** task.
 - d. On the **General** tab, in the **Identity** menu, select **Shared identity**.
2. Link the user account to a pseudo employee.
 - a. In the Manager, select the **OneLogin > User accounts** category.
 - b. Select the user account in the result list.
 - c. Select the **Change main data** task.
 - d. On the **General** tab, select the pseudo employee from the **Employee** menu.
TIP: If you are the target system manager, you can choose  to create a new pseudo employee.
3. Assign the employees who will use this administrative user account to the user account.
 - a. In the Manager, select the **OneLogin > User accounts** category.
 - b. Select the user account in the result list.
 - c. Select the **Assign employees authorized to use** task.
 - d. In the **Add assignments** pane, add employees.
TIP: In the **Remove assignments** pane, you can remove assigned employees.

To remove an assignment

- Select the employee and double-click .

Related topics

- [Providing administrative user accounts for one employee](#) on page 75
- For more information about mapping employee identities, see the *One Identity Manager Identity Management Base Module Administration Guide*.

Privileged user accounts

Privileged user accounts are used to provide employees with additional privileges. This includes administrative user accounts or service accounts, for example. The user accounts are labeled with the **Privileged user account** property (IsPrivilegedAccount column).

NOTE: The criteria according to which user accounts are automatically identified as privileged are defined as extensions to the view definition (ViewAddOn) in the TSBVAccountIsPrivDetectRule table (which is a table of the **Union** type). The evaluation is done in the TSB_SetIsPrivilegedAccount script.

To create privileged users through account definitions

1. Create an account definition. Create a new manage level for privileged user accounts and assign this manage level to the account definition.
2. If you want to prevent the properties for privileged user accounts from being overwritten, set the **IT operating data overwrites** property for the manage level to **Only initially**. In this case, the properties are populated just once when the user accounts are created.
3. Specify the effect of temporarily or permanently disabling or deleting, or the security risk of an employee on its user accounts and group memberships for each manage level.
4. Create a formatting rule for the IT operating data.

You use the mapping rule to define which rules are used to map IT operating data for user accounts and which default values are used if no IT operating data can be determined through a person's primary roles.

The type of IT operating data required depends on the target system. The following settings are recommended for privileged user accounts:

- In the mapping rule for the IsPrivilegedAccount column, use the default value **1** and set the **Always use default value** option.
- You can also specify a mapping rule for the IdentityType column. The column owns different permitted values that represent user accounts.
- To prevent privileged user accounts from inheriting the entitlements of the

default user, define a mapping rule for the `IsGroupAccount_Role` column with a default value of **0** and set the **Always use default value** option.

5. Enter the effective IT operating data for the target system.

Specify in the departments, cost centers, locations, or business roles which IT operating data should apply when you set up a user account.

6. Assign the account definition directly to employees who work with privileged user accounts.

When the account definition is assigned to an employee, a new user account is created through the inheritance mechanism and subsequent processing.

TIP: If customization requires that the login names of privileged user accounts follow a defined naming convention, specify how the login names are formatted in the template.

Related topics

- [Account definitions for OneLogin user accounts](#) on page 47

Specifying deferred deletion for OneLogin user accounts

You can use deferred deletion to specify how long the user accounts remain in the database after deletion is triggered before they are finally removed. By default, user accounts are finally deleted from the database after 30 days. First, the user accounts are disabled or blocked. You can reenable the user accounts up until deferred deletion runs. After deferred deletion is run, the user accounts are deleted from the database and cannot be restored anymore.

You have the following options for configuring deferred deletion.

- Global deferred deletion: Deferred deletion applies to user accounts in all target system. The default value is **30** days.

In the Designer, enter a different value for deferred deletion in the Deferred deletion [days] property of the **OLGUser** table.

- Object-specific deferred deletion: Deferred deletion can be configured depending on certain properties of the accounts.

To use object-specific deferred deletion, in the Designer, create a Script (deferred deletion) for the **OLGUser** table.

Example:

Deferred deletion of privileged user accounts is 10 days. The following **Script (deferred deletion)** is entered in the table.

```
If Not $IsPrivilegedAccount:Bool$ Then  
    Value = 10  
End If
```

For more information on editing table definitions and configuring deferred deletion in the Designer, see the *One Identity Manager Configuration Guide*.

Managing memberships in OneLogin roles

OneLogin user accounts can be grouped into OneLogin roles that can be used to regulate access to OneLogin applications.

In One Identity Manager, you can assign OneLogin roles directly to user accounts or they can be inherited through departments, cost centers, locations, or business roles. Users can also request the roles through the Web Portal. To do this, roles are provided in the IT Shop.

Detailed information about this topic

- [Assigning OneLogin roles to OneLogin user accounts](#) on page 80
- [Effectiveness of membership in OneLogin roles](#) on page 88
- [OneLogin role inheritance based on categories](#) on page 89
- [Overview of all assignments](#) on page 92

Assigning OneLogin roles to OneLogin user accounts

OneLogin roles can be assigned directly or indirectly to OneLogin user accounts.

In the case of indirect assignment, employees and OneLogin roles are assigned to hierarchical company structures, such as departments, cost centers, locations, or business roles. The OneLogin roles assigned to an employee are calculated from the position in the hierarchy and the direction of inheritance. If you add an employee to company structures and that employee owns a OneLogin user account, the OneLogin user account is added to the OneLogin role.

Furthermore, OneLogin roles can be requested through the Web Portal. To do this, add employees to a shop as customers. All OneLogin roles, which are assigned to this shop as products, can be requested by the customers. Requested OneLogin roles are assigned to the employees after approval is granted.

You can use system roles to group OneLogin roles together and assign them to employees as a package. You can create system roles that contain only OneLogin roles. You can also group any number of company resources into a system role.

To react quickly to special requests, you can assign OneLogin roles directly to OneLogin user accounts.

For more information see the following guides:

Topic	Guide
Basic principles for assigning and inheriting company resources	<i>One Identity Manager Identity Management Base Module Administration Guide</i> <i>One Identity Manager Business Roles Administration Guide</i>
Assigning company resources through IT Shop requests	<i>One Identity Manager IT Shop Administration Guide</i>
System roles	<i>One Identity Manager System Roles Administration Guide</i>

Detailed information about this topic

- [Prerequisites for indirect assignment of OneLogin roles to OneLogin user accounts](#) on page 81
- [Assigning OneLogin roles to departments, cost centers and locations](#) on page 82
- [Assigning OneLogin roles to business roles](#) on page 84
- [Adding OneLogin roles to system roles](#) on page 85
- [Adding OneLogin roles to the IT Shop](#) on page 85
- [Assigning OneLogin user accounts directly to OneLogin roles](#) on page 87
- [Assigning OneLogin roles directly to OneLogin user accounts](#) on page 88

Prerequisites for indirect assignment of OneLogin roles to OneLogin user accounts

In the case of indirect assignment, employees and OneLogin roles are assigned to hierarchical company structures, such as departments, cost centers, locations, or business roles. When assigning OneLogin roles indirectly, check the following settings and modify them if necessary.

1. Assignment of employees and OneLogin roles is permitted for role classes (departments, cost centers, locations, or business roles).

For more information, see the *One Identity Manager Identity Management Base Module Administration Guide*.

To configure assignments to roles of a role class

- a. In the Manager, select role classes in the **Organizations > Basic configuration data > Role classes** category.
- OR -
In the Manager, select role classes in the **Business roles > Basic configuration data > Role classes** category.
- b. Select the **Configure role assignments** task and configure the permitted assignments.
 - To generally allow an assignment, enable the **Assignments allowed** column.
 - To allow direct assignment, enable the **Direct assignments permitted** column.
- c. Save the changes.

2. Settings for assigning OneLogin roles to OneLogin user accounts.

- The OneLogin user account is linked to an employee.
- The OneLogin user account is labeled with the **Roles can be inherited** option.

NOTE: There are other configuration settings that play a role when company resources are inherited through departments, cost centers, locations, and business roles. For example, role inheritance might be blocked or inheritance of employees not allowed. For more detailed information about the basic principles for assigning company resources, see the *One Identity Manager Identity Management Base Module Administration Guide*.

Related topics

- [Editing main data of OneLogin user accounts](#) on page 114
- [General main data of OneLogin user accounts](#) on page 114

Assigning OneLogin roles to departments, cost centers and locations

Assign roles to departments, cost centers and locations in order to assign user accounts to them through these roles.

To assign a role to departments, cost centers, or locations (non role-based login)

1. In Manager, select the category **OneLogin > Roles**.
2. Select the role in the result list.

3. Select the **Assign organizations** task.
4. In the **Add assignments** pane, assign the organizations:
 - On the **Departments** tab, assign departments.
 - On the **Locations** tab, assign locations.
 - On the **Cost centers** tab, assign cost centers.

TIP: In the **Remove assignments** pane, you can remove assigned organizations.

To remove an assignment

- Select the organization and double-click .
5. Save the changes.

To assign roles to a department, a cost center, or a location (non role-based login or role-based login)

1. In the Manager, select the **Organizations > Departments** category.
 - OR -
 - In the Manager, select the **Organizations > Cost centers** category.
 - OR -
 - In the Manager, select the **Organizations > Locations** category.
2. Select the department, cost center, or location in the result list.
3. Select the **Assign OneLogin roles** task.
4. In the **Add assignments** pane, assign the roles.

TIP: In the **Remove assignments** pane, you can remove assigned roles.

To remove an assignment

- Select the role and double-click .
5. Save the changes.

Related topics

- [Prerequisites for indirect assignment of OneLogin roles to OneLogin user accounts](#) on page 81
- [Assigning OneLogin roles to business roles](#) on page 84
- [Adding OneLogin roles to system roles](#) on page 85
- [Adding OneLogin roles to the IT Shop](#) on page 85
- [Assigning OneLogin user accounts directly to OneLogin roles](#) on page 87
- [Assigning OneLogin roles directly to OneLogin user accounts](#) on page 88
- [One Identity Manager users for managing a OneLogin domain](#) on page 9

Assigning OneLogin roles to business roles

NOTE: This function is only available if the Business Roles Module is installed.

Assign roles to business roles to allow them to be assigned to user accounts through these business roles.

To assign a role to a business role (non role-based login)

1. In Manager, select the category **OneLogin > Roles**.
2. Select the role in the result list.
3. Select the **Assign business roles** task.
4. In the **Add assignments** pane, select the role class and assign business roles.

TIP: In the **Remove assignments** pane, you can remove assigned business roles.

To remove an assignment

- Select the business role and double-click .
5. Save the changes.

To assign roles to a business role (non role-based login or role-based login)

1. In the Manager, select the **Business roles > <role class>** category.
2. Select the business role in the result list.
3. Select the **Assign OneLogin roles** task.
4. In the **Add assignments** pane, assign the roles.

TIP: In the **Remove assignments** pane, you can remove assigned roles.

To remove an assignment

- Select the role and double-click .
5. Save the changes.

Related topics

- [Prerequisites for indirect assignment of OneLogin roles to OneLogin user accounts](#) on page 81
- [Assigning OneLogin roles to departments, cost centers and locations](#) on page 82
- [Adding OneLogin roles to system roles](#) on page 85
- [Adding OneLogin roles to the IT Shop](#) on page 85
- [Assigning OneLogin user accounts directly to OneLogin roles](#) on page 87
- [Assigning OneLogin roles directly to OneLogin user accounts](#) on page 88
- [One Identity Manager users for managing a OneLogin domain](#) on page 9

Adding OneLogin roles to system roles

NOTE: This function is only available if the System Roles Module is installed.

Use this task to add a role to system roles. If you assign a system role to employees, all OneLogin user accounts owned by these employees inherit the group.

NOTE: Roles with **Only use in IT Shop** set can only be assigned to system roles that also have this option set. For more information, see the *One Identity Manager System Roles Administration Guide*.

To assign a role to system roles

1. In Manager, select the category **OneLogin > Roles**.
2. Select the role in the result list.
3. Select the **Assign system roles** task.
4. In the **Add assignments** pane, assign system roles.

TIP: In the **Remove assignments** pane, you can remove the system role assignment.

To remove an assignment

- Select the system role and double-click .
5. Save the changes.

Related topics

- [Prerequisites for indirect assignment of OneLogin roles to OneLogin user accounts](#) on page 81
- [Assigning OneLogin roles to departments, cost centers and locations](#) on page 82
- [Assigning OneLogin roles to business roles](#) on page 84
- [Adding OneLogin roles to the IT Shop](#) on page 85
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Adding OneLogin roles to the IT Shop

Once a role has been assigned to an IT Shop shelf, it can be requested by the shop customers. To ensure it can be requested, further prerequisites need to be guaranteed.

- The roles must be labeled with the **IT Shop** option.
- The role must be assigned to a service item.

- If you want the role to be assigned to employees only by IT Shop requests, the application must also be labeled with the **Only use in IT Shop option**. Direct assignment to hierarchical roles may not be possible.

NOTE: IT Shop administrators can assign roles to the IT Shop shelves if login is role-based. Target system administrators are not authorized to add roles in the IT Shop.

To add a role to the IT Shop

1. In the Manager, select the **OneLogin > Roles** (non role-based login) category.
- OR -
In the Manager, select the **Entitlements > OneLogin roles** (role-based login) category.
2. Select the role in the result list.
3. Select **Add to IT Shop**.
4. In the **Add assignments** pane, add to the IT Shop shelves.
5. Save the changes.

For more information about requesting company resources through the IT Shop, see the *One Identity Manager IT Shop Administration Guide*.

Related topics

- [Prerequisites for indirect assignment of OneLogin roles to OneLogin user accounts](#) on page 81
- [General main data of OneLogin roles](#) on page 125
- [Removing OneLogin roles from an IT Shop shelf](#) on page 86
- [Removing OneLogin roles from all IT Shop shelves](#) on page 87
- [One Identity Manager users for managing a OneLogin domain](#) on page 9

Removing OneLogin roles from an IT Shop shelf

To remove a role from individual IT Shop shelves

1. In the Manager, select the **OneLogin > Roles** (non role-based login) category.
- OR -
In the Manager, select the **Entitlements > OneLogin roles** (role-based login) category.
2. Select the role in the result list.
3. Select **Add to IT Shop**.
4. In the **Remove assignments** pane, remove the role from the IT Shop shelves.
5. Save the changes.

Related topics

- [Removing OneLogin roles from all IT Shop shelves](#) on page 87

Removing OneLogin roles from all IT Shop shelves

To remove a roles from all IT Shop shelves

1. In the Manager, select the **OneLogin > Roles** (non role-based login) category.
- OR -
In the Manager, select the **Entitlements > OneLogin roles** (role-based login) category.
2. Select the role in the result list.
3. Select the **Remove from all shelves (IT Shop)** task.
4. Confirm the security prompt with **Yes**.
5. Click **OK**.

The role is removed from all shelves by the One Identity Manager Service. All requests and assignment requests are canceled along with this role as a result.

Related topics

- [Removing OneLogin roles from an IT Shop shelf](#) on page 86

Assigning OneLogin user accounts directly to OneLogin roles

To react quickly to special requests, you can assign roles directly to user accounts. You cannot directly assign roles that have the **Only use in IT Shop** option set.

To assign user accounts directly to a role

1. In Manager, select the category **OneLogin > Roles**.
2. Select the role in the result list.
3. Select in the **Assign user accounts** task.
4. In the **Add assignments** pane, assign the user accounts.

TIP: In the **Remove assignments** pane, you can remove assigned user accounts.

To remove an assignment

- Select the user account and double-click .
5. Save the changes.

Related topics

- [Assigning OneLogin roles directly to OneLogin user accounts](#) on page 88
- [Assigning OneLogin roles to departments, cost centers and locations](#) on page 82
- [Assigning OneLogin roles to business roles](#) on page 84
- [Adding OneLogin roles to system roles](#) on page 85
- [Adding OneLogin roles to the IT Shop](#) on page 85

Assigning OneLogin roles directly to OneLogin user accounts

To react quickly to special requests, you can assign roles directly to user accounts. You cannot directly assign roles that have the **Only use in IT Shop** option set.

To assign roles directly to user accounts

1. In the Manager, select the **OneLogin > User accounts** category.
2. Select the user account in the result list.
3. Select the **Assign roles** task.
4. In the **Add assignments** pane, assign the roles.

TIP: In the **Remove assignments** pane, you can remove assigned roles.

To remove an assignment

- Select the role and double-click .
5. Save the changes.

Related topics

- [Assigning OneLogin roles to OneLogin user accounts](#) on page 80

Effectiveness of membership in OneLogin roles

When roles are assigned to user accounts an employee may obtain two or more groups, which are not permitted in this combination. To prevent this, you can declare mutually exclusive roles. To do this, you specify which of the two roles should apply to the user accounts if both are assigned.

It is possible to assign an excluded role at any time either directly, indirectly, or with an IT Shop request. One Identity Manager determines whether the assignment is effective.

NOTE:

- You cannot define a pair of mutually exclusive roles. That means, the definition "Role A excludes role B" AND "Role B excludes role A" is not permitted.
- Every role to be excluded from another role must be declared separately. Exclusion definitions cannot be inherited.

The effect of the assignments is mapped in the `OLGUserInOLGRo1e` table through the `XIsInEffect` column.

Prerequisites

- The **QER | Structures | Inherit | GroupExclusion** configuration parameter is set.

In the Designer, set the configuration parameter and compile the database.

NOTE: If you disable the configuration parameter at a later date, model components and scripts that are no longer required, are disabled. SQL procedures and triggers are still carried out. For more information about the behavior of preprocessor relevant configuration parameters and conditional compiling, see the *One Identity Manager Configuration Guide*.

- Mutually exclusive roles belong to the same domain

To exclude roles

1. In Manager, select the category **OneLogin > Roles**.
2. Select the role in the result list.
3. Select the **Exclude roles** task.
4. In the **Add assignments** pane, assign the roles that are mutually exclusive to the selected role.

- OR -

In the **Remove assignments** pane, remove the roles that are no longer mutually exclusive.

5. Save the changes.

OneLogin role inheritance based on categories

In One Identity Manager, user accounts can selectively inherit roles. To do this, the roles and user accounts are divided into categories. The categories can be freely selected and are specified using a mapping rule. Each category is given a specific position within the template. The mapping rule contains different tables. Use the user account table to specify categories for target system dependent user accounts. In the other tables, enter your

categories for the roles. Each table contains the category positions **position 1** to **position 63**.

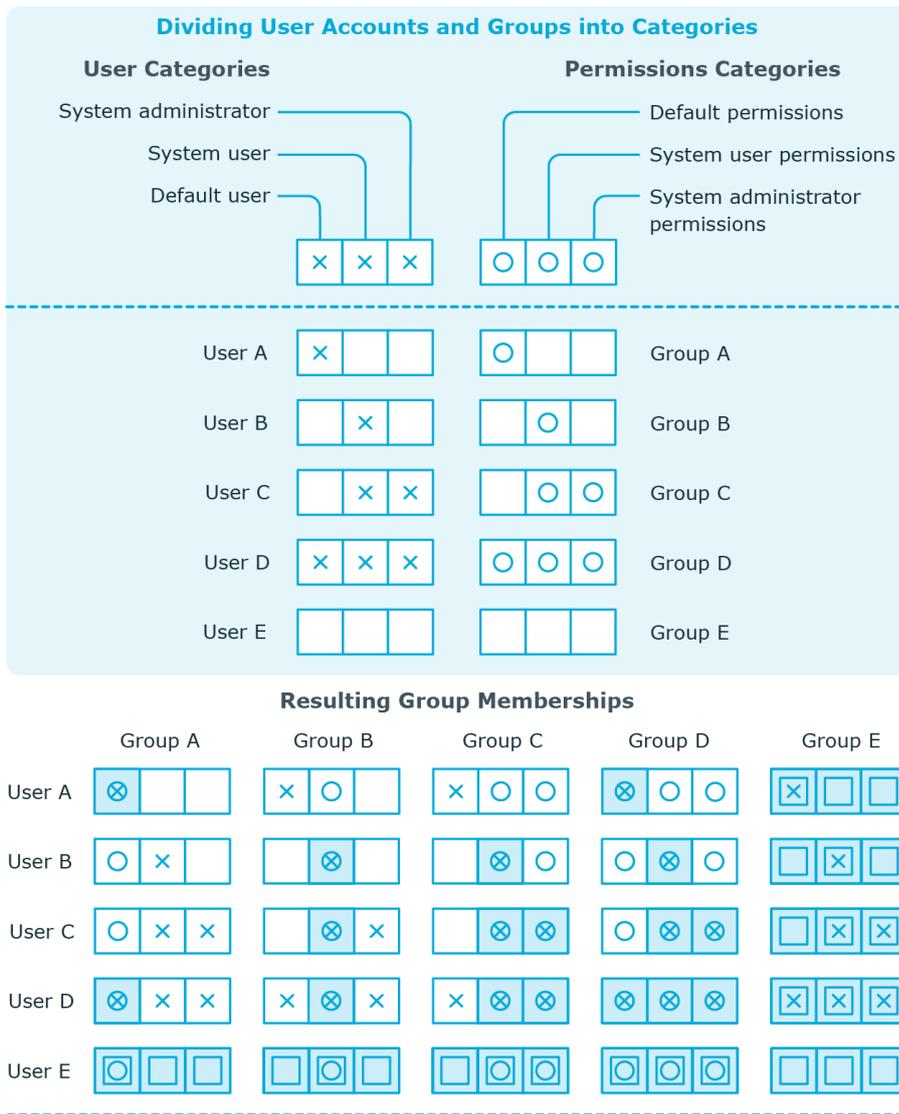
Each user account can be assigned to one or more categories. Each role can also be assigned to one or more categories. The role is inherited by the user account when at least one user account category items matches an assigned role . The role is also inherited by the user account if the role or the user account is not put into categories.

NOTE: Inheritance through categories is only taken into account when roles are assigned indirectly through hierarchical roles. Categories are not taken into account when roles are directly assigned to user accounts.

Table 12: Category examples

Category item	Categories for user accounts	Categories for roles
1	Default user	Default permissions
2	System users	System user permissions
3	System administrator	System administrator permissions

Figure 2: Example of inheriting through categories.



Key:

<p>⊗ Inherits due to matching categories</p> <p>□ Inherits because user account and group are not categorized</p>	<p>⊙ Inherits because user account is not categorized</p> <p>⊗ Inherits because group is not categorized</p>
---	--

To use inheritance through categories

- In the Manager, define the categories in the OneLogin domain.
- Assign categories to user accounts through their main data.
- Assign categories to roles through their main data.

Related topics

- [Defining categories for the inheritance of entitlements](#) on page 111
- [General main data of OneLogin user accounts](#) on page 114
- [General main data of OneLogin roles](#) on page 125

Overview of all assignments

The **Overview of all assignments** report is displayed for some objects, such as authorizations, compliance rules, or roles. The report finds all the roles, for example, departments, cost centers, locations, business roles, and IT Shop structures in which there are employees who own the selected base object. In this case, direct as well as indirect base object assignments are included.

Examples:

- If the report is created for a resource, all roles are determined in which there are employees with this resource.
- If the report is created for a group or another system entitlement, all roles are determined in which there are employees with this group or system entitlement.
- If the report is created for a compliance rule, all roles are determined in which there are employees who violate this compliance rule.
- If the report is created for a department, all roles are determined in which employees of the selected department are also members.
- If the report is created for a business role, all roles are determined in which employees of the selected business role are also members.

To display detailed information about assignments

- To display the report, select the base object from the navigation or the result list and select the **Overview of all assignments** report.
- Click the  **Used by** button in the report toolbar to select the role class for which you want to determine whether roles exist that contain employees with the selected base object.

All the roles of the selected role class are shown. The color coding of elements identifies the role in which there are employees with the selected base object. The meaning of the report control elements is explained in a separate legend. To access the legend, click the  icon in the report's toolbar.

- Double-click a control to show all child roles belonging to the selected role.

- By clicking the  button in a role's control, you display all employees in the role with the base object.
- Use the small arrow next to  to start a wizard that allows you to bookmark this list of employees for tracking. This creates a new business role to which the employees are assigned.

Figure 3: Toolbar of the Overview of all assignments report.



Table 13: Meaning of icons in the report toolbar

Icon	Meaning
	Show the legend with the meaning of the report control elements
	Saves the current report view as a graphic.
	Selects the role class used to generate the report.
	Displays all roles or only the affected roles.

Login information for OneLogin user accounts

When new user accounts are created in One Identity Manager, the passwords needed to log in to the target system are created immediately also. Various options are available for assigning the initial password. Predefined password policies are applied to the passwords, and you can adjust these policies to suit your individual requirements if necessary. You can set up email notifications to distribute the login information generated to users.

Detailed information about this topic

- [Password policies for OneLogin user accounts](#) on page 94
- [Initial password for new OneLogin user accounts](#) on page 106
- [Email notifications about login data](#) on page 106

Password policies for OneLogin user accounts

One Identity Manager provides you with support for creating complex password policies, for example, for system user passwords, the employees' central password as well as passwords for individual target systems. Password policies apply not only when the user enters a password but also when random passwords are generated.

Predefined password policies are supplied with the default installation that you can use or customize if required. You can also define your own password policies.

Detailed information about this topic

- [Predefined password policies](#) on page 95
- [Using password policies](#) on page 96
- [Creating password policies](#) on page 97
- [Editing password policies](#) on page 98

- [Custom scripts for password requirements](#) on page 102
- [Password exclusion list](#) on page 105
- [Checking a password](#) on page 105
- [Testing password generation](#) on page 105

Predefined password policies

You can customize predefined password policies to meet your own requirements if necessary.

Password for logging in to One Identity Manager

The **One Identity Manager password policy** is applied for logging in to One Identity Manager. This password policy defines the settings for the system user passwords (DialogUser.Password and Person.DialogUserPassword) as well as the passcode for a one time log in on the Web Portal (Person.Passcode).

NOTE: The **One Identity Manager password policy** is marked as the default policy. This password policy is applied if no other password policy can be found for employees, user accounts, or system users.

For more information about password policies for employees, see the *One Identity Manager Identity Management Base Module Administration Guide*.

Password policy for forming employees' central passwords

An employee's central password is formed from the target system specific user accounts by respective configuration. The **Employee central password policy** defines the settings for the (Person.CentralPassword) central password. Members of the **Identity Management | Employees | Administrators** application role can adjust this password policy.

IMPORTANT: Ensure that the **Employee central password policy** does not violate the target system-specific requirements for passwords.

For more information about password policies for employees, see the *One Identity Manager Identity Management Base Module Administration Guide*.

Password policies for user accounts

Predefined password policies are provided, which you can apply to the user account password columns of the user accounts.

IMPORTANT: If you do not use password policies that are specific to the target system, the **One Identity Manager password policy** default policy applies. In this case, ensure that the default policy does not violate the target systems requirements.

The **OneLogin password policy** is predefined for OneLogin. You can apply this password policy to the OneLogin user accounts (OLGUser.Password) of a OneLogin domain.

If the domains' password requirements differ, it is recommended that you set up your own password policies for each domain.

Furthermore, you can apply password policies based on the account definition of the user accounts or based on the manage level of the user accounts.

Using password policies

The **OneLogin password policy** is predefined for OneLogin. You can apply this password policy to the OneLogin user accounts (OLGUser.Password) of a OneLogin domain.

If the domains' password requirements differ, it is recommended that you set up your own password policies for each domain.

Furthermore, you can apply password policies based on the account definition of the user accounts or based on the manage level of the user accounts.

The password policy that is to be used for a user account is determined in the following sequence:

1. Password policy of the user account's account definition.
2. Password policy of the user account's manage level.
3. Password policies of the user account's OneLogin domain.
4. The **One Identity Manager password policy** (default policy).

IMPORTANT: If you do not use password policies that are specific to the target system, the **One Identity Manager password policy** default policy applies. In this case, ensure that the default policy does not violate the target systems requirements.

To reassign a password policy

1. In the Manager, select the **OneLogin > Basic configuration data > Password policies** category.
2. Select the password policy in the result list.
3. Select **Assign objects**.
4. Click **Add** in the **Assignments** section and enter the following data.
 - **Apply to:** Application scope of the password policy.

To specify an application scope

1. Click **→** next to the field.
2. Select one of the following references under **Table**:
 - The table that contains the base objects of synchronization.
 - To apply the password policy based on the account definition, select the **TSBAccountDef** table.

- To apply the password policy based on the manage level, select the **TSBBehavior** table.
3. Under **Apply to**, select the table that contains the base objects.
 - If you have selected the table containing the base objects of synchronization, next select the specific target system.
 - If you have selected the **TSBAccountDef** table, next select the specific account definition.
 - If you have selected the **TSBBehavior** table, next select the specific manage level.
 4. Click **OK**.
 - **Password column**: Name of the password column.
 - **Password policy**: Name of the password policy to use.
 5. Save the changes.

To change a password policy's assignment

1. In the Manager, select the **OneLogin > Basic configuration data > Password policies** category.
2. Select the password policy in the result list.
3. Select the **Assign objects** task.
4. In the **Assignments** pane, select the assignment you want to change.
5. From the **Password Policies** menu, select the new password policy you want to apply.
6. Save the changes.

Creating password policies

Predefined password policies are supplied with the default installation that you can use or customize if required. You can also define your own password policies.

To create a password policy

1. In the Manager, select the **OneLogin > Basic configuration data > Password policies** category.
2. On the main data form, enter the main data of the password policy.
3. Save the changes.

Detailed information about this topic

- [General main data for password policies](#) on page 98
- [Policy settings](#) on page 100

- [Character classes for passwords](#) on page 99
- [Custom scripts for password requirements](#) on page 102
- [Editing password policies](#) on page 98

Editing password policies

Predefined password policies are supplied with the default installation that you can use or customize if required.

To edit a password policy

1. In the Manager, select the **OneLogin > Basic configuration data > Password policies** category.
2. In the result list, select the password policy.
3. Select the **Change main data** task.
4. Edit the password policy's main data.
5. Save the changes.

Detailed information about this topic

- [General main data for password policies](#) on page 98
- [Policy settings](#) on page 100
- [Character classes for passwords](#) on page 99
- [Custom scripts for password requirements](#) on page 102
- [Creating password policies](#) on page 97

General main data for password policies

Enter the following main data of a password policy.

Table 14: main data for a password policy

Property	Meaning
Display name	Password policy name. Translate the given text using the  button.
Description	Text field for additional explanation. Translate the given text using the  button.
Error Message	Custom error message generated if the policy is not fulfilled. Translate the given text using the  button.

Property	Meaning
Owner (Application Role)	Application roles whose members can configure the password policies.
Default policy	Mark as default policy for passwords. This option cannot be changed. NOTE: The One Identity Manager password policy is marked as the default policy. This password policy is applied if no other password policy can be found for employees, user accounts, or system users.

Character classes for passwords

Use the **Character classes** tab to specify which characters are permitted for a password.

Table 15: Character classes for passwords

Property	Meaning
Required number of character classes	Number of rules for character classes that must be fulfilled so that a password adheres to the password policy. The following rules are taken into account for Min. number letters , Min. number lowercase , Min. number uppercase , Min. number digits , and Min. number special characters . That means: <ul style="list-style-type: none"> • Value 0: All character class rules must be fulfilled. • Value >0: Minimum number of character class rules that must be fulfilled. At most, the value can be the number of rules with a value >0. <p>NOTE: Generated passwords are not tested for this.</p>
Min. number letters	Specifies the minimum number of alphabetical characters the password must contain.
Min. number lowercase	Specifies the minimum number of lowercase letters the password must contain.
Min. number uppercase	Specifies the minimum number of uppercase letters the password must contain.
Min. number digits	Specifies the minimum number of digits the password must contain.
Min. number special characters	Specifies the minimum number of special characters the password must contain.

Property	Meaning
Permitted special characters	List of permitted special characters.
Max. identical characters in total	Specifies the maximum number of identical characters that can be present in the password in total.
Max. identical characters in succession	Specifies the maximum number of identical character that can be repeated after each other.
Denied special characters	List of special characters that are not permitted.
Do not generate lowercase letters	Specifies whether a generated password can contain lowercase letters. This setting only applies when passwords are generated.
Do not generate uppercase letters	Specifies whether a generated password can contain uppercase letters. This setting only applies when passwords are generated.
Do not generate digits	Specifies whether a generated password can contain digits. This setting only applies when passwords are generated.
Do not generate special characters	Specifies whether a generated password can contain special characters. If this option is set, only letters, numbers, and spaces are allowed in passwords. This setting only applies when passwords are generated.

Policy settings

Define the following settings for a password policy on the **Password** tab.

Table 16: Policy settings

Property	Meaning
Initial password	Initial password for newly created user accounts. The initial password is used if a password is not entered when you

Property	Meaning
	create a user account or if a random password is not generated.
Password confirmation	Reconfirm password.
Minimum Length	Minimum length of the password. Specify the number of characters a password must have. If the value is 0 , no password is required.
Max. length	Maximum length of the password. Specify the number of characters a password can have. The maximum permitted value is 256 .
Max. errors	<p>Maximum number of errors. Set the number of invalid passwords attempts. The number of failed logins is only taken into account when logging in to One Identity Manager. If the value is 0, the number of failed logins is not taken into account.</p> <p>This data is only taken into account if the One Identity Manager login was through a system user or employee based authentication module. If a user has exceeded the maximum number of failed logins, the employee or system user will not be able to log in to One Identity Manager.</p> <p>You can use the Password Reset Portal to reset the passwords of employees and system users who have been blocked. For more information, see the <i>One Identity Manager Web Designer Web Portal User Guide</i>.</p>
Validity period	Maximum age of the password. Enter the length of time a password can be used before it expires. If the value is 0 , then the password does not expire.
Password history	Enter the number of passwords to be saved. If, for example, a value of 5 is entered, the user's last five passwords are stored. If the value is 0 , then no passwords are stored in the password history.
Minimum password strength	Specifies how secure the password must be. The higher the password strength, the more secure it is. The value 0 means that the password strength is not tested. The values 1 , 2 , 3 and 4 specify the required complexity of the password. The value 1 represents the lowest requirements in terms of password strength. The value 4 requires the highest level of complexity.
Name properties denied	Specifies whether name properties are permitted in the password. If this option is set, name properties are not permitted in passwords. The values of these columns are

Property	Meaning
	taken into account if the Contains name properties for password check option is set. In the Designer, adjust this option in the column definition. For more information, see the <i>One Identity Manager Configuration Guide</i> .

Custom scripts for password requirements

You can implement custom scripts for testing and generating passwords if the password requirements cannot be mapped with the existing settings options. Scripts are applied in addition to the other settings.

Detailed information about this topic

- [Checking passwords with a script](#) on page 102
- [Generating passwords with a script](#) on page 103

Checking passwords with a script

You can implement a script if additional policies need to be used for checking a password that cannot be mapped with the available settings.

Syntax of check scripts

```
Public Sub CCC_CustomPwdValidate( policy As VI.DB.Passwords.PasswordPolicy, spwd
As System.Security.SecureString)
```

With parameters:

policy = password policy object

spwd = password to check

TIP: To use a base object, take the Entity property of the PasswordPolicy class.

Example: Script that checks a password

A password cannot start with ? or ! . The password cannot start with three identical characters. The script checks a given password for validity.

```
Public Sub CCC_PwdValidate( policy As VI.DB.Passwords.PasswordPolicy, spwd
As System.Security.SecureString)
```

```
    Dim pwd = spwd.ToInsecureArray()
```

```

If pwd.Length>0
    If pwd(0)="?" Or pwd(0)="!"
        Throw New Exception(#LD("Password can't start with '?' or '!")#)
    End If
End If
If pwd.Length>2
    If pwd(0) = pwd(1) AndAlso pwd(1) = pwd(2)
        Throw New Exception(#LD("Invalid character sequence in password")#)
    End If
End If
End Sub

```

To use a custom script for checking a password

1. In the Designer, create your script in the **Script Library** category.
2. Edit the password policy.
 - a. In the Manager, select the **OneLogin > Basic configuration data > Password policies** category.
 - b. In the result list, select the password policy.
 - c. Select the **Change main data** task.
 - d. On the **Scripts** tab, enter the name of the script to be used to check a password in the **Check script** field.
 - e. Save the changes.

Related topics

- [Generating passwords with a script](#) on page 103

Generating passwords with a script

You can implement a generating script if additional policies need to be used for generating a random password, which cannot be mapped with the available settings.

Syntax for generating script

```
Public Sub CCC_PwdGenerate( policy As VI.DB.Passwords.PasswordPolicy, spwd As System.Security.SecureString)
```

With parameters:

policy = password policy object

spwd = generated password

TIP: To use a base object, take the Entity property of the PasswordPolicy class.

Example: Script that generates a password

In random passwords, this script replaces the invalid characters ? and ! at the beginning of a password with _.

```
Public Sub CCC_PwdGenerate( policy As VI.DB.Passwords.PasswordPolicy, spwd
As System.Security.SecureString)
    Dim pwd = spwd.ToInsecureArray()
    ' replace invalid characters at first position
    If pwd.Length>0
        If pwd(0)="?" Or pwd(0)="!"
            spwd.SetAt(0, CChar("_"))
        End If
    End If
End Sub
```

To use a custom script for generating a password

1. In the Designer, create your script in the **Script Library** category.
2. Edit the password policy.
 - a. In the Manager, select the **OneLogin > Basic configuration data > Password policies** category.
 - b. In the result list, select the password policy.
 - c. Select the **Change main data** task.
 - d. On the **Scripts** tab, enter the name of the script to be used to generate a password in the **Generating script** field.
 - e. Save the changes.

Related topics

- [Checking passwords with a script on page 102](#)

Password exclusion list

You can add words to a list of restricted terms to prohibit them from being used in passwords.

| NOTE: The restricted list applies globally to all password policies.

To add a term to the restricted list

1. In the Designer, select the **Base data > Security settings > Password policies** category.
2. Create a new entry with the **Object > New** menu item and enter the term you want to exclude from the list.
3. Save the changes.

Checking a password

When you verify a password, all the password policy settings, custom scripts, and the restricted passwords are taken into account.

To verify if a password conforms to the password policy

1. In the Manager, select the **OneLogin > Basic configuration data > Password policies** category.
2. In the result list, select the password policy.
3. Select the **Change main data** task.
4. Select the **Test** tab.
5. Select the table and object to be tested in **Base object for test**.
6. Enter a password in **Enter password to test**.
A display next to the password shows whether it is valid or not.

Testing password generation

When you generate a password, all the password policy settings, custom scripts and the restricted passwords are taken into account.

To generate a password that conforms to the password policy

1. In the Manager, select the **OneLogin > Basic configuration data > Password policies** category.
2. In the result list, select the password policy.

3. Select the **Change main data** task.
4. Select the **Test** tab.
5. Click **Generate**.
This generates and displays a password.

Initial password for new OneLogin user accounts

You can issue an initial password for a new OneLogin user account in the following ways:

- When you create the user account, enter a password in the main data.
- Assign a randomly generated initial password to enter when you create user accounts.
 - In the Designer, set the **TargetSystem | OneLogin | Accounts | InitialRandomPassword** configuration parameter.
 - Apply target system specific password policies and define the character sets that the password must contain.
 - Specify which employee will receive the initial password by email.

Related topics

- [Password policies for OneLogin user accounts](#) on page 94
- [Email notifications about login data](#) on page 106

Email notifications about login data

You can configure the login information for new user accounts to be sent by email to a specified person. In this case, two messages are sent with the user name and the initial password. Mail templates are used to generate the messages. The mail text in a mail template is defined in several languages. This means the recipient's language can be taken into account when the email is generated. Mail templates are supplied in the default installation with which you can configure the notification procedure.

The following prerequisites must be fulfilled in order to use notifications:

1. Ensure that the email notification system is configured in One Identity Manager. For more information, see the *One Identity Manager Installation Guide*.
2. In the Designer, set the **Common | MailNotification | DefaultSender** configuration parameter and enter the sender address for sending the email notifications.

3. Ensure that all employees have a default email address. Notifications are sent to this address. For more information, see the *One Identity Manager Identity Management Base Module Administration Guide*.
4. Ensure that a language can be determined for all employees. Only then can they receive email notifications in their own language. For more information, see the *One Identity Manager Identity Management Base Module Administration Guide*.

When a randomly generated password is issued for the new user account, the initial login data for a user account is sent by email to a previously specified person.

To send initial login data by email

1. In the Designer, set the **TargetSystem | OneLogin | Accounts | InitialRandomPassword** configuration parameter.
2. In the Designer, set the **TargetSystem | OneLogin | Accounts | InitialRandomPassword | SendTo** configuration parameter and enter the message recipient as a value.
3. In the Designer, set the **TargetSystem | OneLogin | Accounts | InitialRandomPassword | SendTo | MailTemplateAccountName** configuration parameter.

By default, the message sent uses the mail template **Employee - new user account created**. The message contains the name of the user account.

4. In the Designer, set the **TargetSystem | OneLogin | Accounts | InitialRandomPassword | SendTo | MailTemplatePassword** configuration parameter.

By default, the message sent uses the mail template **Employee - initial password for new user account**. The message contains the initial password for the user account.

TIP: To use custom mail templates for emails of this type, change the value of the configuration parameter.

Mapping of OneLogin objects in One Identity Manager

One Identity Manager maps the user accounts, roles, and applications of a OneLogin domain. These objects are imported into the One Identity Manager database during synchronization. You cannot display or edit their properties in the Manager.

Detailed information about this topic

- [OneLogin domains](#) on page 108
- [OneLogin user accounts](#) on page 112
- [OneLogin applications](#) on page 121
- [OneLogin roles](#) on page 124
- [OneLogin authentication methods](#) on page 127
- [OneLogin service providers](#) on page 127
- [OneLogin clients](#) on page 128
- [OneLogin policies](#) on page 129
- [OneLogin groups](#) on page 130
- [OneLogin privileges](#) on page 130
- [OneLogin custom user fields](#) on page 131

OneLogin domains

OneLogin domains are added as base objects for the synchronization in One Identity Manager. A domain represents the target system for synchronizing with OneLogin. They are used to configure provisioning processes, automatic assignment of employees to user accounts, and to pass down OneLogin roles and OneLogin applications to user accounts.

NOTE: One Identity Manager sets up the domains in the Synchronization Editor database.

Related topics

- [Creating OneLogin domains on page 109](#)
- [Editing main data of OneLogin domains on page 109](#)
- [General main data for OneLogin domains on page 110](#)
- [Defining categories for the inheritance of entitlements on page 111](#)
- [Editing the synchronization project for a OneLogin domain on page 112](#)
- [Displaying the OneLogin domain overview on page 112](#)
- [Synchronizing single objects on page 38](#)

Creating OneLogin domains

NOTE: If you use a default project template, the Synchronization Editor sets up the domains in the One Identity Manager database. If necessary, domains can also be created in the Manager.

To create an OneLogin domain

1. In the Manager, select the **OneLogin > Domains** category.
2. Click  in the result list.
3. On the main data form, edit the main data for the domain.
4. Save the changes.

Related topics

- [Editing main data of OneLogin domains on page 109](#)
- [General main data for OneLogin domains on page 110](#)
- [Defining categories for the inheritance of entitlements on page 111](#)

Editing main data of OneLogin domains

NOTE: One Identity Manager sets up the domains in the Synchronization Editor database.

To edit main data of an OneLogin domain

1. In the Manager, select the **OneLogin > Domains** category.
2. Select the domain in the result list.
3. Select the **Change main data** task.
4. Edit the domain's main data.
5. Save the changes.

Related topics

- [Creating OneLogin domains on page 109](#)
- [General main data for OneLogin domains on page 110](#)
- [Defining categories for the inheritance of entitlements on page 111](#)

General main data for OneLogin domains

Enter the following data on the **General** tab.

Table 17: General main data of a domain

Property	Description
Domain	Name of OneLogin the domain. This corresponds to the <subdomain> part of the DNS name.
Display name	Name used to display the domain in the user interface. This is preset with the domain name; however, the display name can be changed.
DNS name	Full DNS name. Example: <subdomain>.onelogin.com
Account definition (initial)	Initial account definition for creating user accounts. This account definition is used if automatic assignment of employees to user accounts is used for this domain and if user accounts are to be created that are already managed (Linked configured). The account definition's default manage level is applied. User accounts are only linked to the employee (Linked) if no account definition is given. This is the case on initial synchronization, for example.
Target system managers	Application role in which target system managers are specified for the domain. Target system managers only edit the objects from domains that are assigned to them. Therefore, each domain can have a different target system manager assigned to it. Select the One Identity Manager application role whose members are responsible for administration of this domain. Use the  button to add a new application role.
Synchronized by	Type of synchronization through which the data is synchronized between the domain and One Identity Manager. You can no longer change the synchronization type once objects for these domains are present in One Identity Manager. If you create a domain with the Synchronization Editor, One Identity

Property	Description									
	Manager is used.									
	Table 18: Permitted values									
	<table border="1"> <thead> <tr> <th>Value</th> <th>Synchronization by</th> <th>Provisioned by</th> </tr> </thead> <tbody> <tr> <td>One Identity Manager</td> <td>OneLogin connector</td> <td>OneLogin connector</td> </tr> <tr> <td>No synchronization</td> <td>None</td> <td>none</td> </tr> </tbody> </table>	Value	Synchronization by	Provisioned by	One Identity Manager	OneLogin connector	OneLogin connector	No synchronization	None	none
Value	Synchronization by	Provisioned by								
One Identity Manager	OneLogin connector	OneLogin connector								
No synchronization	None	none								
	NOTE: If you select No synchronization , you can define custom processes to exchange data between One Identity Manager and the target system.									
Description	Text field for additional explanation.									

Defining categories for the inheritance of entitlements

In One Identity Manager, user accounts can selectively inherit roles. To do this, the roles and user accounts are divided into categories. The categories can be freely selected and are specified using a mapping rule. Each category is given a specific position within the template. The mapping rule contains different tables. Use the user account table to specify categories for target system dependent user accounts. In the other tables, enter your categories for the roles. Each table contains the category positions **position 1** to **position 63**.

To define a category

1. In the Manager, select the domain in the **OneLogin > Domains** category.
2. Select the **Change main data** task.
3. Switch to the **Mapping rule category** tab.
4. Extend the relevant roots of a table.
5. To enable the category, double-click .
6. Enter a category name of your choice for user accounts and entitlements in the login language that you use.
7. Save the changes.

Detailed information about this topic

- [OneLogin role inheritance based on categories](#) on page 89

Editing the synchronization project for a OneLogin domain

Synchronization projects in which a domain is already used as a base object can also be opened in the Manager. You can, for example, check the configuration or view the synchronization log in this mode. The Synchronization Editor is not started with its full functionality. You cannot run certain functions, such as, running synchronization or simulation, starting the target system browser and others.

NOTE: The Manager is locked for editing throughout. To edit objects in the Manager, close the Synchronization Editor.

To open an existing synchronization project in the Synchronization Editor:

1. In the Manager, select the **OneLogin > Domains** category.
2. Select the domain in the result list. Select the **Change main data** task.
3. Select the **Edit synchronization project** task.

Related topics

- [Customizing the synchronization configuration](#) on page 25

Displaying the OneLogin domain overview

Use this task to obtain an overview of the most important information about a domain.

To obtain an overview of a domain

1. In the Manager, select the **OneLogin > Domains** category.
2. Select the domain in the result list.
3. Select the **OneLogin domain overview** task.

OneLogin user accounts

You can use One Identity Manager to manage OneLogin user accounts. A user can login in to a domain with a user account and obtain group memberships and access permissions to the applications.

A user account can be linked to an employee in One Identity Manager. You can also manage user accounts separately from employees.

NOTE: It is recommended to use account definitions to set up user accounts for company employees. In this case, some of the main data described in the following is mapped through templates from employee main data.

NOTE: If employees are to obtain their user accounts through account definitions, the employees must own a central user account and obtain their IT operating data through assignment to a primary department, a primary location, or a primary cost center.

Detailed information about this topic

- [Managing OneLogin user accounts and employees](#) on page 46
- [Managing memberships in OneLogin roles](#) on page 80
- [Creating OneLogin user accounts](#) on page 113
- [Editing main data of OneLogin user accounts](#) on page 114
- [General main data of OneLogin user accounts](#) on page 114
- [Login credentials for OneLogin user accounts](#) on page 117
- [Information about OneLogin user accounts' directory](#) on page 118
- [Information about the OneLogin user accounts' company](#) on page 119
- [Changing custom user fields for OneLogin user accounts](#) on page 119
- [Assigning extended properties to OneLogin user accounts](#) on page 120
- [Deleting and restoring OneLogin user accounts](#) on page 120
- [Displaying the OneLogin user account overview](#) on page 121
- [Synchronizing single objects](#) on page 38

Creating OneLogin user accounts

User accounts are imported into One Identity Manager during synchronization. You can set up new user accounts in One Identity Manager.

To create a user account

1. In the Manager, select the **OneLogin > User accounts** category.
2. Click  in the result list.
3. On the main data form, edit the main data of the user account.
4. Save the changes.

Related topics

- [General main data of OneLogin user accounts](#) on page 114
- [Login credentials for OneLogin user accounts](#) on page 117
- [Information about OneLogin user accounts' directory](#) on page 118
- [Information about the OneLogin user accounts' company](#) on page 119
- [Editing main data of OneLogin user accounts](#) on page 114

Editing main data of OneLogin user accounts

User accounts are imported into One Identity Manager during synchronization. You can edit existing user accounts in One Identity Manager.

To edit main data of a user account

1. In the Manager, select the **OneLogin > User accounts** category.
2. Select the user account in the result list.
3. Select the **Change main data** task.
4. Edit the user account's resource data.
5. Save the changes.

Related topics

- [General main data of OneLogin user accounts](#) on page 114
- [Login credentials for OneLogin user accounts](#) on page 117
- [Information about OneLogin user accounts' directory](#) on page 118
- [Information about the OneLogin user accounts' company](#) on page 119
- [Creating OneLogin user accounts](#) on page 113

General main data of OneLogin user accounts

Enter the following data on the **General** tab.

Table 19: Additional main data of a user account

Property	Description
Domain	User account's domain.
Employee	<p>Employee that uses this user account. An employee is already entered if the user account was generated by an account definition. If you create the user account manually, you can select an employee in the menu. If you are using automatic employee assignment, an associated employee is found and added to the user account when you save the user account.</p> <p>You can create a new employee for a user account with an identity of type Organizational identity, Personalized administrator identity, Sponsored identity, Shared identity, or Service identity. To do this, click  next to the input field and enter the required employee main data. Which login data is required depends on the selected identity type.</p>

Property	Description
No link to an employee required	<p>Specifies whether the user account is intentionally not assigned an employee. The option is automatically set if a user account is included in the exclusion list for automatic employee assignment or a corresponding attestation is carried out. You can set the option manually. Enable the option if the user account does not need to be linked with an employee (for example, if several employees use the user account).</p> <p>If attestation approves these user accounts, these user accounts will not be submitted for attestation in the future. In the Web Portal, user accounts that are not linked to an employee can be filtered according to various criteria.</p>
Not linked to an employee	<p>Indicates why the No link to an employee required option is enabled for this user account. Possible values:</p> <ul style="list-style-type: none"> • By administrator: The option was set manually by the administrator. • By attestation: The user account was attested. • By exclusion criterion: The user account is not associated with an employee due to an exclusion criterion. For example, the user account is included in the exclude list for automatic employee assignment (configuration parameter PersonExcludeList).
Account definition	<p>Account definition through which the user account was created.</p> <p>Use the account definition to automatically fill user account main data and to specify a manage level for the user account. One Identity Manager finds the IT operating data of the assigned employee and enters it in the corresponding fields in the user account.</p> <p>NOTE: The account definition cannot be changed once the user account has been saved.</p> <p>NOTE: Use the user account's Remove account definition task to reset the user account to Linked status. This removes the account definition from both the user account and the employee. The user account remains but is not managed by the account definition anymore. The task only removes account definitions that are directly assigned (X0origin=1).</p>
Manage level	<p>Manage level of the user account. Select a manage level from the menu. You can only specify the manage level can if you have also entered an account definition. All manage levels of the selected account definition are available in the menu.</p>
First name	The user's first name.
Last name	The user's last name.

Property	Description
Title	The user's academic title.
User name	Name of the user account for logging in to a OneLogin domain.
Email address	User account email address.
Phone	Telephone number.
Unique ID	Unique ID used by OneLogin to manage the user account.
External ID	ID of the user in an external directory.
Trusted IdP	ID of the trusted IdP (identity provider) in OneLogin, to which the user is assigned.
Activation status	Activation status of a user account in OneLogin. Permitted values are Unactivated, Active, Suspended, Locked, Passport expired, Password pending, Awaiting password reset, and Security questions required.
Licensing state	State of a OneLogin user account's license. Permitted values are Licensed, Unlicensed, Rejected and Approved.
Group	OneLogin group the user belongs to.
Account manager	Manager responsible for the user account.
Risk index (calculated)	Maximum risk index value of all assigned . The property is only visible if the QER CalculateRiskIndex configuration parameter is set. For more information, see the <i>One Identity Manager Risk Assessment Administration Guide</i> .
Category	Categories for the inheritance of groups by the user account. Groups can be selectively inherited by user accounts. To do this, groups and user accounts or contacts are divided into categories. Select one or more categories from the menu.
Comment	Text field for additional explanation.
Identity	User account's identity type Permitted values are: <ul style="list-style-type: none"> • Primary identity: Employee's default user account. • Organizational identity: Secondary user account used for different roles in the organization, for example for subcontracts with other functional areas. • Personalized administrator identity: User account with administrative permissions, used by one employee. • Sponsored identity: User account to use for a specific purpose. Training, for example.

Property	Description
	<ul style="list-style-type: none"> • Shared identity: User account with administrative permissions, used by several employees. Assign all employees that use this user account. • Service identity: Service account.
Roles can be inherited	Specifies whether the user account can inherit OneLogin roles through the linked employee. If the option is set, the user account inherits the roles through hierarchical roles, in which the employee is a member, or through IT Shop requests.
Privileged user account	Specifies whether this is a privileged user account.

Related topics

- [Account definitions for OneLogin user accounts](#) on page 47
- [OneLogin role inheritance based on categories](#) on page 89
- [Supported user account types](#) on page 72
- [Login credentials for OneLogin user accounts](#) on page 117
- [Information about OneLogin user accounts' directory](#) on page 118
- [Information about the OneLogin user accounts' company](#) on page 119
- [General main data for OneLogin domains](#) on page 110
- [Prerequisites for indirect assignment of OneLogin roles to OneLogin user accounts](#) on page 81

Login credentials for OneLogin user accounts

The **Login** tab shows the following main data.

Table 20: Credentials

Property	Description
Created on	Specifies when the user account was created.
Date of invitation	Specifies when the user accounts was invited.
Activation date	Specifies when the user account was activated.
Password	Password for the user account. The employee's central password can be

Property	Description
	<p>mapped to the user account password. For more information about an employee's central password, see <i>One Identity Manager Identity Management Base Module Administration Guide</i>.</p> <p>If you use a random generated initial password for the user accounts, it is automatically entered when a user account is created.</p> <p>The password is deleted from the database after publishing to the target system.</p> <p>NOTE: One Identity Manager password policies are taken into account when a user password is being verified. Ensure that the password policy does not violate the target system's requirements.</p>
Confirmation	Reconfirm password.
Password last changed	Data of last password change.
Last login	Date of last login.
Failed logins count	Number of failed login attempts in sequence by the user.
Locked until	Specifies until when the user account is locked.

Related topics

- [Password policies for OneLogin user accounts](#) on page 94
- [Initial password for new OneLogin user accounts](#) on page 106
- [General main data of OneLogin user accounts](#) on page 114
- [Information about OneLogin user accounts' directory](#) on page 118
- [Information about the OneLogin user accounts' company](#) on page 119

Information about OneLogin user accounts' directory

The **Directory** tab show the following information about the connected directory service, Active Directory or LDAP, for example.

Table 21: Directory information

Property	Description
Distinguished name	Distinguished name of the user account in the connected directory.

Property	Description
Manager	Distinguished name of the manager in the connected directory.
User login name	Login name of the user account in the connected directory.
Login name (pre Win2000)	Login name of the Active Directory user account for the previous version of Active Directory.

Related topics

- [General main data of OneLogin user accounts](#) on page 114
- [Login credentials for OneLogin user accounts](#) on page 117
- [Information about the OneLogin user accounts' company](#) on page 119

Information about the OneLogin user accounts' company

On the **Company** tab, enter the following master data.

Table 22: Main data for identification

Property	Description
Company	Employee's company.
Department	Employee's department

Related topics

- [General main data of OneLogin user accounts](#) on page 114
- [Login credentials for OneLogin user accounts](#) on page 117
- [Information about OneLogin user accounts' directory](#) on page 118

Changing custom user fields for OneLogin user accounts

Use this task to change the values in custom user fields for a user account.

To change a custom user field for a user account

1. In the Manager, select the **OneLogin > User accounts** category.
2. Select the user account in the result list.

3. Select the custom user field and enter the new value in the **Value** column.
4. Save the changes.

Related topics

- [OneLogin custom user fields](#) on page 131

Assigning extended properties to OneLogin user accounts

Extended properties are meta objects, such as operating codes, cost codes, or cost accounting areas that cannot be mapped directly in One Identity Manager.

For more information about using extended properties, see the *One Identity Manager Identity Management Base Module Administration Guide*.

To specify extended properties for a user account

1. In the Manager, select the **OneLogin > User accounts** category.
2. Select the user account in the result list.
3. Select **Assign extended properties**.
4. In the **Add assignments** pane, assign extended properties.

TIP: In the **Remove assignments** pane, you can remove assigned extended properties.

To remove an assignment

- Select the extended property and double-click .
5. Save the changes.

Deleting and restoring OneLogin user accounts

NOTE: As long as an account definition for an employee is valid, the employee retains the user account that was created by it. If the account definition assignment is removed, the user account that was created from this account definition, is deleted.

You can delete a user account that was not created using an account definition through the result list or from the menu bar. After you have confirmed the security alert the user account is marked for deletion in the One Identity Manager. The user account is locked in One Identity Manager and permanently deleted from the One Identity Manager database and the target system depending on the deferred deletion setting.

For more information about deactivating and deleting employees and user accounts, see the *One Identity Manager Target System Base Module Administration Guide*.

To delete a user account that is not managed using an account definition

1. In the Manager, select the **OneLogin > User accounts** category.
2. Select the user account in the result list.
3. Click  in the result list.
4. Confirm the security prompt with **Yes**.

To restore a user account

1. In the Manager, select the **OneLogin > User accounts** category.
2. Select the user account in the result list.
3. Click  in the result list.

Related topics

- [Specifying deferred deletion for OneLogin user accounts](#) on page 78

Displaying the OneLogin user account overview

Use this task to obtain an overview of the most important information about a user account.

To obtain an overview of a user account

1. In the Manager, select the **OneLogin > User accounts** category.
2. Select the user account in the result list.
3. Select the **OneLogin user account overview** task.

OneLogin applications

Users can use applications if they have been assigned permissions to do so through role membership or if the application is assigned directly to them. Applications are loaded into One Identity Manager by synchronization. You can edit certain main data of the application but you cannot create new applications in One Identity Manager.

Detailed information about this topic

- [Editing master data for OneLogin applications](#) on page 122
- [General main data for OneLogin applications](#) on page 122
- [Assigning extended properties to OneLogin application](#) on page 123
- [Displaying OneLogin application overviews](#) on page 124
- [Synchronizing single objects](#) on page 38

Editing master data for OneLogin applications

Applications are loaded into One Identity Manager by synchronization. You can edit existing applications in One Identity Manager.

To edit the main data of an application

1. In the Manager, select the **OneLogin > Applications** category.
2. Select the application in the result list.
3. Select the **Change main data** task.
4. On the main data form, edit the main data of the applications.
5. Save the changes.

Related topics

- [General main data for OneLogin applications](#) on page 122

General main data for OneLogin applications

Enter the following data on the **General** tab.

Table 23: General main data

Property	Description
Display name	Name for displaying the application in the user interface of One Identity Manager tools.
Authentication method	Application authentication method.
Unique ID	Unique ID used by OneLogin to manage the application.

Property	Description
Domain	Domain of the application.
Policy	Permitted policy for the application.
Risk index	Value for evaluating the risk of assigning the application to user accounts. Set a value in the range 0 to 1 . This field is only visible if the QER CalculateRiskIndex configuration parameter is set. For more information about risk assessment, see the <i>One Identity Manager Risk Assessment Administration Guide</i> .
Description	Text field for additional explanation.
Notes	Text field for additional explanation.
Visible	Specifies whether the application is shown in the OneLogin portal.
Provisioning enabled	Specifies whether provisioning is enabled for this application.

Related topics

- [OneLogin policies](#) on page 129

Assigning extended properties to OneLogin application

Extended properties are meta objects, such as operating codes, cost codes, or cost accounting areas that cannot be mapped directly in One Identity Manager.

For more information about setting up extended properties, see the *One Identity Manager Identity Management Base Module Administration Guide*.

To specify extended properties for an application

1. In the Manager, select the **OneLogin > Applications** category.
2. Select the application in the result list.
3. Select **Assign extended properties**.
4. In the **Add assignments** pane, assign extended properties.

TIP: In the **Remove assignments** pane, you can remove assigned extended properties.

To remove an assignment

- Select the extended property and double-click .
5. Save the changes.

Displaying OneLogin application overviews

Use this task to obtain an overview of the most important information about an application.

To obtain an overview of an application:

1. In the Manager, select the **OneLogin > Applications** category.
2. Select the group in the result list.
3. Select the **OneLogin application overview** task.

OneLogin roles

In a OneLogin domain, user accounts can be grouped into roles that can be used to regulate access to OneLogin applications. Roles are loaded into the One Identity Manager by synchronization. You can edit individual main data of the role but you cannot create new roles in One Identity Manager.

To add users to roles, you can assign the roles directly to the users. You can assign roles to departments, cost centers, locations, business roles, or the IT Shop.

Detailed information about this topic

- [Managing memberships in OneLogin roles](#) on page 80
- [Editing main data of OneLogin roles](#) on page 124
- [General main data of OneLogin roles](#) on page 125
- [Assigning extended properties to OneLogin roles](#) on page 126
- [Displaying the OneLogin role overview](#) on page 126
- [Synchronizing single objects](#) on page 38

Editing main data of OneLogin roles

Roles are imported into the One Identity Manager by synchronization. You can edit existing roles in One Identity Manager.

To edit role main data

1. In Manager, select the category **OneLogin > Roles**.
2. Select the role in the result list.
3. Select the **Change main data** task.

4. On the main data form, edit the main data of the role.
5. Save the changes.

Related topics

- [General main data of OneLogin roles](#) on page 125

General main data of OneLogin roles

Enter the following data on the **General** tab.

Table 24: General main data

Property	Description
Display name	Name for displaying the role in the user interface of One Identity Manager tools.
Unique ID	Unique ID used by OneLogin to manage the role.
Domain	Domain of the role.
IT Shop	Specifies whether the role can be requested through the IT Shop. If this option is set, the role can be requested by the employees through the Web Portal and distributed with a defined approval process. The role can still be assigned directly to employees and hierarchical roles.
Only for use in IT Shop	Specifies whether the role can only be requested through the IT Shop. If this option is set, the role can be requested by the employees through the Web Portal and distributed with a defined approval process. Direct assignment of the role to hierarchical roles or user accounts is not permitted.
Service item	Service item data for requesting the role through the IT Shop.
Risk index	Value for evaluating the risk of assigning the role to user accounts. Set a value in the range 0 to 1 . This field is only visible if the QER CalculateRiskIndex configuration parameter is set. For more information about risk assessment, see the <i>One Identity Manager Risk Assessment Administration Guide</i> .
Category	Categories for role inheritance. User accounts can inherit roles selectively. To do this, roles, and user accounts are divided into categories. Select one or more categories from the menu.

Related topics

- [OneLogin role inheritance based on categories](#) on page 89
- For more information about preparing role for requesting through the IT Shop, see the *One Identity Manager IT Shop Administration Guide*.

Assigning extended properties to OneLogin roles

Extended properties are meta objects, such as operating codes, cost codes, or cost accounting areas that cannot be mapped directly in One Identity Manager.

For more information about setting up extended properties, see the *One Identity Manager Identity Management Base Module Administration Guide*.

To specify extended properties for a role

1. In Manager, select the category **OneLogin > Roles**.
2. Select the role in the result list.
3. Select **Assign extended properties**.
4. In the **Add assignments** pane, assign extended properties.

TIP: In the **Remove assignments** pane, you can remove assigned extended properties.

To remove an assignment

- Select the extended property and double-click .
5. Save the changes.

Displaying the OneLogin role overview

Use this task to obtain an overview of the most important information about a role.

To obtain an overview of a role

1. In Manager, select the category **OneLogin > Roles**.
2. Select the group in the result list.
3. Select the **OneLogin role overview** task.

OneLogin authentication methods

OneLogin authentication methods are imported into the One Identity Manager by synchronization. You cannot edit OneLogin authentication methods in One Identity Manager.

To display information about a OneLogin authentication method

1. In the Manager, select **OneLogin > Domains > <your domain> > Authentication method** category.
2. Select the authentication method in the result list.
3. Select one of the following tasks:
 - **OneLogin authentication method overview:** Show you an overview of OneLogin authentication methods and their dependencies.
 - **Change main data:** Shows the OneLogin authentication method's main data. You cannot edit the main data.
 - **Display name:** Display name of the authentication method.
 - **Name:** Authentication method name as shown to administrators in OneLogin.
 - **Unique ID:** Unique ID used for managing the authentication method in OneLogin.
 - **Domain:** Domain to which the authentication method belongs.

OneLogin service providers

OneLogin service providers are imported into One Identity Manager by synchronization. You cannot edit OneLogin service providers in One Identity Manager.

To display information about a OneLogin service provider

1. In the Manager, select **OneLogin > Domains > <your domain> > Service providers** category.
2. Select the service provider in the result list.
3. Select one of the following tasks:
 - **OneLogin service provider overview:** Provides you with an overview of the OneLogin service provider and its dependencies.
 - **Change main data:** This displays the OneLogin service provider's main data. You cannot edit the main data.

- **Display name:** The service provider's display name.
- **Unique ID:** Unique ID used for managing the service provider in OneLogin.
- **Domain:** Domain the service provider belongs to.
- **URL:** Name used by incoming queries to reference this service provider.
- **Access token expires after [min]:** The number of minutes until the access token expires.
- **Refresh token expires after [min]:** The number of minutes until refresh token expires.
- **Description:** Text field for additional explanation.

Related topics

- [OneLogin clients](#) on page 128
- [OneLogin scopes](#) on page 129

OneLogin clients

OneLogin clients are loaded into One Identity Manager by synchronization. These are OpenID applications that can create tokens through a OneLogin service provider. You cannot edit OneLogin clients in One Identity Manager.

To display OneLogin client information

1. In the Manager, select **OneLogin > Domains > <your domain> > Clients** category.
2. Select the client in the result list.
3. Select one of the following tasks:
 - **OneLogin client overview:** This shows you an overview of the client and its OneLogin dependencies.
 - **Change main data:** Shows the OneLogin client's main data. You cannot edit the main data.
 - **Display name:** Display name of the client.
 - **Unique ID:** Unique ID used for managing the client in OneLogin.
 - **Domain:** Domain the client belongs to.
 - **Service provider:** Service provider the client is defined for.

Related topics

- [OneLogin service providers](#) on page 127

OneLogin scopes

Administrators can use scopes to specify which actions a user can run over a service provider. OneLogin scopes are loaded into One Identity Manager by synchronization. You cannot edit OneLogin scopes in One Identity Manager.

To display scope information

1. In the Manager, select **OneLogin > Domains > <your domain> > Scopes** category.
2. Select the scope in the result list.
3. Select one of the following tasks:
 - **OneLogin scope overview:** This shows you an overview of the scope and its OneLogin dependencies.
 - **Change main data:** Shows the OneLogin scope's main data. You cannot edit the main data.
 - **Unique ID:** Unique ID used for managing the scope in OneLogin.
 - **Domain:** Domain the scope belongs to.
 - **Service provider:** Service provider the scope is defined for.
 - **Scope:** Action the scope is defined for.
 - **Description:** Text field for additional explanation.

Related topics

- [OneLogin service providers](#) on page 127

OneLogin policies

OneLogin policies for users and applications are imported into One Identity Manager by synchronization. You cannot edit OneLogin policies in One Identity Manager.

To display information about an OneLogin policy

1. In the Manager, select **OneLogin > Domains > <your domain> > Policies** category.
2. Select the policy in the result list.
3. Select one of the following tasks:
 - **OneLogin policy overview:** This shows you an overview of the OneLogin policies and their dependencies.

- **Change main data:** Shows the OneLogin policy's main data. You cannot edit the main data.
 - **Display name:** The policy's display name.
 - **Unique ID:** Unique ID used for managing the policy in OneLogin.
 - **Domain:** Domain the policy belongs to.

Related topics

- [General main data for OneLogin applications](#) on page 122
- [OneLogin groups](#) on page 130

OneLogin groups

You can use OneLogin groups to apply OneLogin policies to the group's user accounts, for example. OneLogin groups are loaded into One Identity Manager by synchronization. You cannot edit OneLogin groups in One Identity Manager.

To display OneLogin group information

1. In the Manager, select **OneLogin > Domains > <your domain> > Groups** category.
2. Select the group in the result list.
3. Select one of the following tasks:
 - **OneLogin group overview:** This shows you an overview of the OneLogin group and its dependencies.
 - **Change main data:** Shows the OneLogin group's main data. You cannot edit the main data.
 - **Display name:** Display name of the group.
 - **Unique ID:** Unique ID used for managing the group in OneLogin.
 - **Domain:** Domain the group belongs to.

Related topics

- [OneLogin policies](#) on page 129

OneLogin privileges

These privileges define what users can access in their OneLogin instance. Generally, this involves the administrative permissions for a single user. OneLogin privileges are loaded

into One Identity Manager by synchronization. You cannot edit OneLogin privileges in One Identity Manager.

To display OneLogin privilege information

1. In the Manager, select **OneLogin > Domains > <your domain> > Privileges** category.
2. Select a privilege in the result list.
3. Select one of the following tasks:
 - **OneLogin privilege overview:** This shows you an overview of the OneLogin privilege and its dependencies.
 - **Change main data:** Shows the OneLogin privilege's main data. You cannot edit the main data.
 - **Display name:** Display name of the privilege.
 - **Unique ID:** Unique ID used for managing the privilege in OneLogin.
 - **Domain:** Domain the privilege belongs to.
 - **Description:** Text field for additional explanation.

OneLogin custom user fields

OneLogin custom user fields are loaded into One Identity Manager by synchronization. You can create and edit custom user fields in One Identity Manager.

To display information about a custom user field

1. In the Manager, select **OneLogin > Domains > <your domain> > Custom user fields** category.
2. Select the custom user field in the result list.
3. Select one of the following tasks:
 - **OneLogin custom user field overview:** This shows you an overview of the OneLogin custom user field and its dependencies.
 - **Change main data:** Shows the OneLogin authentication custom user field's main data. You cannot edit the main data.
 - **Name:** Name of the custom user field.
 - **Domain:** Domain the custom user field belongs to.

Related topics

- [Changing custom user fields for OneLogin user accounts](#) on page 119

Handling of OneLogin objects in the Web Portal

One Identity Manager enables its users to perform various tasks simply using a Web Portal.

- Managing user accounts and employees

An account definition can be requested by shop customers in the Web Portal if it is assigned to an IT Shop shelf. The request undergoes a defined approval process. The user account is not created until it has been agreed by an authorized person, such as a manager.

- Managing assignments of roles

These products can be requested in the Web Portal by the shop's customers by assigning roles to an IT Shop shelf. The request undergoes a defined approval process. The role is not assigned until it has been approved by an authorized person.

In the Web Portal, managers and administrators of organizations can assign roles and the departments, cost centers, or locations for which they are responsible. The roles are inherited by all employees who are members of these departments, cost centers, or locations.

If the Business Roles Module is available, managers and administrators of business roles can assign roles to the business roles in the Web Portal for which they are responsible. The roles are inherited by all employees who are members of these business roles.

If the System Roles Module is available, those with system roles responsibilities can assign roles to the system roles in the Web Portal. The roles are inherited by all employees who are assigned these system roles.

- Attestation

If the Attestation Module is available, the correctness of the properties of target system objects and of entitlement assignments can be verified on request. To enable this, attestation policies are configured in the Manager. The attestors use the Web Portal to approve attestation cases.

- Governance administration

If the Compliance Rules Module is available, you can define rules that identify the invalid entitlement assignments and evaluate their risks. The rules are checked

regularly, and if changes are made to the objects in One Identity Manager. Compliance rules are defined in the Manager. Supervisors use the Web Portal to check and resolve rule violations and to grant exception approvals.

If the Company Policies Module is available, company policies can be defined for the target system objects mapped in One Identity Manager and their risks evaluated. Company policies are defined in the Manager. Supervisors use the Web Portal to check policy violations and to grant exception approvals.

- Risk assessment

You can use the risk index of roles and applications to evaluate the risk of entitlement assignments for the company. One Identity Manager provides default calculation functions for this. The calculation functions can be modified in the Web Portal.

- Reports and statistics

The Web Portal provides a range of reports and statistics about the employees, user accounts, and their entitlements and risks.

For more information about the named topics, see [Managing OneLogin user accounts and employees](#) on page 46, [Managing memberships in OneLogin roles](#) on page 80, and the following guides:

- *One Identity Manager Web Designer Web Portal User Guide*
- *One Identity Manager Attestation Administration Guide*
- *One Identity Manager Compliance Rules Administration Guide*
- *One Identity Manager Company Policies Administration Guide*
- *One Identity Manager Risk Assessment Administration Guide*

Base data for OneLogin domains

To manage OneLogin domains in One Identity Manager, the following data is relevant.

- Account definitions

One Identity Manager has account definitions for automatically allocating user accounts to employees. You can create account definitions for every target system. If an employee does not yet have a user account in a target system, a new user account is created. This is done by assigning account definitions to an employee.

For more information, see [Account definitions for OneLogin user accounts](#) on page 47.

- Password policy

One Identity Manager provides you with support for creating complex password policies, for example, for system user passwords, the employees' central password as well as passwords for individual target systems. Password policies apply not only when the user enters a password but also when random passwords are generated.

Predefined password policies are supplied with the default installation that you can use or customize if required. You can also define your own password policies.

For more information, see [Password policies for OneLogin user accounts](#) on page 94.

- Initial password for new user accounts

You have the different options for issuing an initial password for user accounts. Enter a password or use a random generated initial password when you create a user account.

For more information, see [Initial password for new OneLogin user accounts](#) on page 106.

- Email notifications about credentials

When a new user account is created, the login data are sent to a specified recipient. In this case, two messages are sent with the user name and the initial password. Mail templates are used to generate the messages.

For more information, see [Email notifications about login data](#) on page 106.

- Target system types

Target system types are required for configuring target system comparisons. Tables with outstanding objects are maintained with the target system types and settings are configured for provisioning memberships and single objects synchronization. Target system types also map objects in the Unified Namespace.

For more information, see [Post-processing outstanding objects](#) on page 39.

- Target system managers

A default application role exists for the target system manager in One Identity Manager. Assign employees to this application role who have permission to edit OneLogin objects.

Define additional application roles if you want to limit the permissions for target system managers to individual domains. The application roles must be added under the default application role.

For more information, see [Target system managers](#) on page 135.

- Servers

Servers must be informed of your server functionality in order to handle OneLogin-specific processes in One Identity Manager. For example, the synchronization server.

For more information, see [Job server for OneLogin-specific process handling](#) on page 137.

Target system managers

A default application role exists for the target system manager in One Identity Manager. Assign employees to this application role who have permission to edit OneLogin objects.

Define additional application roles if you want to limit the permissions for target system managers to individual domains. The application roles must be added under the default application role.

For more information about implementing and editing application roles, see the *One Identity Manager Authorization and Authentication Guide*.

Implementing application roles for target system managers

1. The One Identity Manager administrator allocates employees to be target system administrators.
2. These target system administrators add employees to the default application role for target system managers.
Target system managers with the default application role are authorized to edit all the domains in One Identity Manager.
3. Target system managers can authorize other employees within their area of responsibility as target system managers and if necessary, create additional child application roles and assign these to individual domains.

Table 25: Default application roles for target system managers

User	Tasks
Target system managers	<p>Target system managers must be assigned to the Target systems OneLogin application role or a child application role.</p> <p>Users with this application role:</p> <ul style="list-style-type: none">• Assume administrative tasks for the target system.• Create, change, or delete target system objects.• Edit password policies for the target system.• Prepare roles to add to the IT Shop.• Can add employees who have another identity than the Primary identity.• Configure synchronization in the Synchronization Editor and define the mapping for comparing target systems and One Identity Manager.• Edit the synchronization's target system types and outstanding objects.• Authorize other employees within their area of responsibility as target system managers and create child application roles if required.

To initially specify employees to be target system administrators

1. Log in to the Manager as a One Identity Manager administrator (**Base role | Administrators** application role)
2. Select the **One Identity Manager Administration > Target systems > Administrators** category.
3. Select the **Assign employees** task.
4. Assign the employee you want and save the changes.

To add the first employees to the default application as target system managers

1. Log in to the Manager as a target system administrator (**Target systems | Administrators** application role).
2. Select the **One Identity Manager Administration > Target systems > OneLogin** category.
3. Select the **Assign employees** task.
4. Assign the employees you want and save the changes.

To authorize other employees as target system managers when you are a target system manager

1. Log in to the Manager as a target system manager.
2. Select the application role in the **OneLogin > Basic configuration data > Target system managers** category.
3. Select the **Assign employees** task.
4. Assign the employees you want and save the changes.

To specify target system managers for individual domains

1. Log in to the Manager as a target system manager.
2. Select the **OneLogin > Domains** category.
3. Select the domain in the result list.
4. Select the **Change main data** task.
5. On the **General** tab, select the application role in the **Target system manager** menu.

- OR -

Next to the **Target system manager** menu, click  to create a new application role.

- a. Enter the application role name and assign the **Target systems | OneLogin** parent application role.
 - b. Click **OK** to add the new application role.
6. Save the changes.
 7. Assign employees to this application role who are permitted to edit the domain in One Identity Manager.

Related topics

- [One Identity Manager users for managing a OneLogin domain](#) on page 9
- [General main data for OneLogin domains](#) on page 110

Job server for OneLogin-specific process handling

Servers must be informed of your server functionality in order to handle OneLogin-specific processes in One Identity Manager. For example, the synchronization server.

You have several options for defining a server's functionality:

- In the Designer, create an entry for the Job server in the **Base Data > Installation > Job server** category. For more information about this, see the *One Identity*

Manager Configuration Guide.

- In the Manager, select an entry for the Job server in the **OneLogin > Basic configuration data > Server** category and edit the Job server main data.

Use this task if the Job server has already been declared in One Identity Manager and you want to configure special functions for the Job server.

To edit a Job server and its functions

1. In the Manager, select the **OneLogin > Basic configuration data > Server** category.
2. Select the Job server entry in the result list.
3. Select the **Change main data** task.
4. Edit the Job server's main data.
5. Select the **Assign server functions** task and specify server functionality.
6. Save the changes.

Detailed information about this topic

- [General main data for a Job server](#) on page 138
- [Server functions of a Job server](#) on page 140

General main data for a Job server

NOTE: All editing options are also available in the Designer under **Base Data > Installation > Job server**.

NOTE: More properties may be available depending on which modules are installed.

Table 26: Job server properties

Property	Meaning
Server	Job server name.
Full server name	Full server name in accordance with DNS syntax. Syntax: <Name of servers>.<Fully qualified domain name>
Target system	Computer account target system.
Language	Language of the server.
Server is cluster	Specifies whether the server maps a cluster.
Server belongs to	Cluster to which the server belongs.

Property	Meaning
to cluster	NOTE: The Server is cluster and Server belongs to cluster properties are mutually exclusive.
IP address (IPv6)	Internet protocol version 6 (IPv6) server address.
IP address (IPv4)	Internet protocol version 4 (IPv4) server address.
Copy process (source server)	<p>Permitted copying methods that can be used when this server is the source of a copy action. At present, only copy methods that support the Robocopy and rsync programs are supported.</p> <p>If no method is given, the One Identity Manager Service determines the operating system of the server during runtime. Replication is then performed with the Robocopy program between servers with a Windows operating system or with the rsync program between servers with a Linux operating system. If the operating systems of the source and destination servers differ, it is important that the right copy method is applied for successful replication. A copy method is chosen that supports both servers.</p>
Copy process (target server)	Permitted copying methods that can be used when this server is the destination of a copy action.
Coding	Character set coding that is used to write files to the server.
Parent Job server	Name of the parent Job server.
Executing server	<p>Name of the executing server. The name of the server that exists physically and where the processes are handled.</p> <p>This input is evaluated when the One Identity Manager Service is automatically updated. If the server is handling several queues, the process steps are not supplied until all the queues that are being processed on the same server have completed their automatic update.</p>
Queue	Name of the queue to handle the process steps. The process steps are requested by the Job queue using this queue identifier. The queue identifier is entered in the One Identity Manager Service configuration file.
Server operating system	Operating system of the server. This input is required to resolve the path name for replicating software profiles. The values Win32 , Windows , Linux , and Unix are permitted. If no value is specified, Win32 is used.
Service account data	One Identity Manager Service user account information. In order to replicate between non-trusted systems (non-trusted domains, Linux server), the One Identity Manager Service user information has to be declared for the servers in the database. This means that the service account, the service account domain, and the service account password

Property	Meaning
	have to be entered for the server.
One Identity Manager Service installed	<p>Specifies whether a One Identity Manager Service is installed on this server. This option is enabled by the QBM_PJobQueueLoad procedure the moment the queue is called for the first time.</p> <p>The option is not automatically removed. If necessary, you can reset this option manually for servers whose queue is no longer enabled.</p>
Stop One Identity Manager Service	<p>Specifies whether the One Identity Manager Service has stopped. If this option is set for the Job server, the One Identity Manager Service does not process any more tasks.</p> <p>You can make the service start and stop with the appropriate administrative permissions in the Job Queue Info program. For more information, see the <i>One Identity Manager Process Monitoring and Troubleshooting Guide</i>.</p>
Paused due to unavailability of a target system	<p>Specifies whether task processing for this queue has been stopped because the target system that uses this Job server as a synchronization server is temporarily unavailable. As soon as the target system is available again, processing starts and all outstanding tasks are performed.</p> <p>For more information about offline mode, see the <i>One Identity Manager Target System Synchronization Reference Guide</i>.</p>
No automatic software update	<p>Specifies whether to exclude the server from automatic software updating.</p> <p>NOTE: Servers must be manually updated if this option is set.</p>
Software update running	Specifies whether a software update is currently running.
Server function	Server functionality in One Identity Manager. One Identity Manager processes are handled with respect to the server function.

Related topics

- [Server functions of a Job server](#) on page 140

Server functions of a Job server

The server function defines the functionality of a server in One Identity Manager. One Identity Manager processes are handled with respect to the server function.

NOTE: All editing options are also available in the Designer under **Base Data > Installation > Job server**.

NOTE: More server functions may be available depending on which modules are installed.

Table 27: Permitted server functions

Server function	Remark
CSV connector	Server on which the CSV connector for synchronization is installed.
Domain controller	The Active Directory domain controller. Servers that are not labeled as domain controllers are considered to be member servers.
Printer server	Server that acts as a print server.
Generic server	Server for generic synchronization with a custom target system.
Home server	Server for adding home directories for user accounts.
Update server	<p>This server automatically updates the software on all the other servers. The server requires a direct connection to the database server that One Identity Manager database is installed on. It can run SQL tasks.</p> <p>The server with the One Identity Manager database installed on it is labeled with this functionality during initial installation of the schema.</p>
SQL processing server	<p>It can run SQL tasks. The server requires a direct connection to the database server that One Identity Manager database is installed on.</p> <p>Several SQL processing servers can be set up to spread the load of SQL processes. The system distributes the generated SQL processes throughout all the Job servers with this server function.</p>
CSV script server	This server can process CSV files using the ScriptComponent process component.
Generic database connector	This server can connect to an ADO.Net database.
One Identity Manager database connector	Server on which the One Identity Manager connector is installed. This server synchronizes the One Identity Manager target system.
One Identity Manager Service installed	Server on which a One Identity Manager Service is installed.
Primary domain controller	Primary domain controller.
Profile server	Server for setting up profile directories for user accounts.
SAM synchronization Server	Server for synchronizing an SMB-based target system.
SMTP host	Server from which One Identity Manager Service sends email

Server function	Remark
	notifications. Prerequisite for sending mails using One Identity Manager Service is SMTP host configuration.
Default report server	Server on which reports are generated.
Windows PowerShell connector	The server can run Windows PowerShell version 3.0 or later.
OneLogin connector	Server on which the OneLogin connector is installed. This server synchronizes the OneLogin target system.

Related topics

- [General main data for a Job server](#) on page 138

Configuration parameters for managing OneLogin domains

The following configuration parameters are available in One Identity Manager after the module has been installed.

Table 28: Configuration parameters

Configuration parameters	Description
TargetSystem OneLogin	<p>Preprocessor relevant configuration parameter to control component parts for OneLogin-based custom target system administration. If the parameter is set, the target system components are available. Changes to this parameter require the database to be recompiled.</p> <p>If you disable the configuration parameter at a later date, model components and scripts that are not longer required, are disabled. SQL procedures and triggers are still carried out. For more information about the behavior of preprocessor relevant configuration parameters and conditional compiling, see the <i>One Identity Manager Configuration Guide</i>.</p>
TargetSystem OneLogin Accounts	Allows configuration of user account data.
TargetSystem OneLogin Accounts InitialRandomPassword	Specifies whether a random password is generated when a new user account is added. The password must contain at least those character sets that are defined in the password policy.
TargetSystem OneLogin Accounts InitialRandomPassword SendTo	Employee to receive an email with the random generated password (manager cost center/department/location/role, employee's manager or XUserInserted). If no recipient can be found, the password is sent to the address stored in the TargetSystem OneLogin DefaultAddress configuration parameter.

Configuration parameters	Description
TargetSystem OneLogin Accounts InitialRandomPassword SendTo MailTemplateAccountName	Mail template name that is sent to supply users with the login credentials for the user account. The Employee - new user account created mail template is used.
TargetSystem OneLogin Accounts InitialRandomPassword SendTo MailTemplatePassword	Mail template name that is sent to supply users with the initial password. The Employee - initial password for new user account mail template is used.
TargetSystem OneLogin Accounts MailTemplateDefaultValues	Mail template used to send notifications about whether default IT operating data mapping values are used for automatically creating a user account. The Employee - new user account with default properties created mail template is used.
TargetSystem OneLogin DefaultAddress	Default email address of the recipient for notifications about actions in the target system.
TargetSystem OneLogin MaxFullsyncDuration	Maximum runtime of a synchronization in minutes. No recalculation of group memberships by the DBQueue Processor can take place during this time. If the maximum runtime is exceeded, group membership are recalculated.
TargetSystem OneLogin PersonAutoDefault	Mode for automatic employee assignment for user accounts added to the database outside synchronization.
TargetSystem OneLogin PersonAutoDisabledAccounts	Specifies whether employees are automatically assigned to disabled user accounts. User accounts are not given an account definition.
TargetSystem OneLogin PersonAutoFullSync	Mode for automatic employee assignment for user accounts that are added to or updated in the database by synchronization.

Default template for OneLogin domains

A default project template ensures that all required information is added in One Identity Manager. This includes mappings, workflows, and the synchronization base object. If you do not use a default project template you must declare the synchronization base object in One Identity Manager yourself.

Use a default project template for initially setting up the synchronization project. For custom implementations, you can extend the synchronization project with the Synchronization Editor.

The project template uses mappings for the following schema types.

Table 29: Mapping OneLogin schema types to tables in the One Identity Manager schema

Schema type in OneLogin	Table in the One Identity Manager schema
APIAuthorization	OLGAPIAuthorization
Application	OLGApplication
AuthFactor	OLGAuthFactor
Client	OLGClient, OLGClientHasOLGScope
CustomAttribute	OLGCustomAttribute
Event	OLGEvent
Group	OLGGroup
Policy	OLGPolicy
Privilege	OLGPrivilege
Role	OLGRole
RoleAdmin	OLGUserInOLGRoleAdmin
RoleApplication	OLGRoleApplication

Schema type in OneLogin	Table in the One Identity Manager schema
Scope	OLGScope
User	OLGUser
UserApplication	OLGUserHasOLGApplication
UserAuthFactor	OLGUserHasOLGAuthFactor
UserCustomAttribute	OLGUserHasOLGCustomAttribute
UserPrivilege	OLGUserHasOLGPrivilege

Editing OneLogin system objects

The following table describes permitted editing methods of OneLogin schema types and names restrictions required by system object processing.

Table 30: Methods available for editing schema types

Type	Read	Add	Delete	Refresh
Service provider (APIAuthorization)	Yes	No	No	No
Applications (Application)	Yes	No	No	No
Authentication methods (AuthFactor)	Yes	No	No	No
Clients (Client)	Yes	No	No	No
Custom user fields (CustomAttribute)	Yes	No	No	No
Change history (Event)	Yes	No	No	No
Groups (Group)	Yes	No	No	No
Policies (Policy)	Yes	No	No	No
Privileges (Privilege)	Yes	No	No	No
Roles (Role)	Yes	No	No	No
Administrators for roles (RoleAdmin)	Yes	Yes	Yes	Yes
Role assignments to applications (RoleApplication)	Yes	Yes	Yes	Yes
Scopes (Scope)	Yes	No	No	No
User accounts (User)	Yes	Yes	Yes	Yes
Application assignments to user accounts (UserApplication)	Yes	No	No	No
Authentication method assignments to user accounts (UserAuthFactor)	Yes	Yes	Yes	Yes
Custom field assignments to user accounts	Yes	No	No	Yes

Type	Read	Add	Delete	Refresh
(UserCustomAttribute)				
Privilege assignments to user accounts (UserPrivilege)	Yes	Yes	Yes	Yes

OneLogin connector settings

The following settings are configured for the system connection with the OneLogin connector.

Table 31: OneLogin connector settings

Setting	Description
Authentication URI	Authentication endpoint or URL. URL available for authenticating. Only the part of the URL added to the common part, is required to reach the authentication endpoints. If authentication of another server or another root URL is used for authentication, the full URL must be entered here. Variable: o1gauthendpoint
Client secret (OAuth)	Security token for login. Variable: o1gauthoauthclientsecret
Domain	Full OneLogin domain name, <your domain>.onelogin.com , for example. Variable: o1grootdn
Grant type (OAuth)	Access type for login. Variable: o1gauthoauthgranttype
HTTP KeepAlive	Specifies whether HTTP connections are kept open. If the option is not set, connections are closed immediately and cannot be used for further queries. Default: True Variable: o1gkeepalive
Max. parallel queries	Number of target system data queries that can be carried out at simultaneously. Enter a value between 1 and 32 . Default: 0 Variable: o1gparallelprocesses
Password (OAuth)	Login password if the client secret is not known.

Setting	Description
	Variable: o1gauthoauthpassword
Read events created since	Used for revision filtering. Variable: o1geventsincefilter
Scope (OAuth)	Scope parameter valid for target system login. If several parameter apply, separate them with spaces. Variable: o1gauthoauthscope
Service URI	URI of API without version. Default: api Variable: o1groot
Use client side cache	Specifies whether the OneLogin connector's local cache is used. Local cache is used to speed up synchronization. Access to the cloud application is minimized during full synchronization. The option is ignored during provisioning. It does not make sense to use the cache during synchronization with revision filtering. If the target system supports revision filtering, disable the option after initial synchronization. Default: True Variable: o1gusecache
User name (OAuth)	User name if the client secret is not known. Variable: o1gauthoauthusername
Application/Client ID	Client ID for the application.

One Identity solutions eliminate the complexities and time-consuming processes often required to govern identities, manage privileged accounts and control access. Our solutions enhance business agility while addressing your IAM challenges with on-premises, cloud and hybrid environments.

Contacting us

For sales and other inquiries, such as licensing, support, and renewals, visit <https://www.oneidentity.com/company/contact-us.aspx>.

Technical support resources

Technical support is available to One Identity customers with a valid maintenance contract and customers who have trial versions. You can access the Support Portal at <https://support.oneidentity.com/>.

The Support Portal provides self-help tools you can use to solve problems quickly and independently, 24 hours a day, 365 days a year. The Support Portal enables you to:

- Submit and manage a Service Request
- View Knowledge Base articles
- Sign up for product notifications
- Download software and technical documentation
- View how-to videos at www.YouTube.com/OneIdentity
- Engage in community discussions
- Chat with support engineers online
- View services to assist you with your product

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