Step 4.2. Create an agent (Optional)

That step will be an **optional** step, and it will be mandatory only when the **SQL Server agent** or the **Oracle agent** was not created previously on Soffid Console and you need to add a database to manage its accounts.

Step-by-step

1. First of all, to create an agent you must access the agent page in the following path:

> Main Menu > Administration > Configure Soffid > Integration engine > Agents

2. Once you have accessed the agent page, Soffid will display all the active agents created on Soffid. You must click the button with the add symbol (+) to add a new agent. Then Soffid will display a new empty page to fill in the agent data.

> **2.1.** You must fill, at least the required fields (fields with an asterisk) to create an agent.

- o
  - o The **Name** should be an identificative and unique agent name
    - o The **Description** should be a brief description of the agent.
    - o The **Type** allows you to select the connector type to use, the SQL Server connector or the Oracle connector. Be in mind that you need to load the connector on Soffid if you did not do it previously.
    - o The **Server** allows you to select the synchronization server that will perform the agent tasks. It is allowed to select two servers in cases high disponibility will be necessary. If you choose two servers, when one fails, the other will be used.
      - o If "*-disabled-*" is selected, the agent will be disabled-
    - o The **User domain** allows you to select how to generate account names. If the account name is the same as the user name (as it is normally the case), the "Default user domain" should be used. The user domain values are defined on the Account naming rules page.

- The **Password domain** allows you to select the password policies that will be used. If the "Default password domain" is selected, Soffid passwords will be shared with the managed systems. The user domain values are defined on the Password policies page.

You can visit the Plugins page for more information about how to load a connector on Soffid Console.

2.2. You must fill in the optional parameters that you need to config the agent.

2.3. You must fill in the "Connector parameters". Those parameters depend on the agent.

2.3.1. SQL Server connector:

Below there are the specific parameters for this agent implementation:

Parameter	Description
User name	Database user name to authenticate
Password	The password of the database user
Driver	Identifies the driver of the relational database to use. Currently, these are the supported databases: MySQL (& MariaDB), PostgreSQL, Oracle, MS SQL Server, Informix, DB2/400, DB2 Universal, Sybase, ODBC

Parameter	Description
DB URL	URL that identifies the connection properties. Please refer to the specific database vendor documentation to build this URL.
	jdbc:mariadb://<HOST>/<DATA_BASE>
	jdbc:mysql://<HOST>/<DATA_BASE>
	jdbc:postgresql://<HOST>/<DATA_BASE>
	jdbc:oracle:<drivertype>:@<database>
	jdbc:sqlserver://<HOST>;databaseName=<DATA_BASE>
	(*) More documentation about the DB URL
SQL Sentence to execute at startup	Each time the connection to the agent is established, this SQL statement will be executed.
Password hash algorithm	The algorithm is used to encrypt the password. For instance SHA1, SHA256, MD5, etc
Password hash prefix	Prefix to add it to the password.
	{SHA1}BzE/DjIPIsv6Nc/CIFCOs/9FfH4=
	{SHA256}AIEM+LlNb8ucXeSE077EGHYgs+KHblmquQ2FL+Dxj7Y=
Enable debug	Two options: **Yes**, and **No**. It enables or not more log traces in the Synchronization Server log
Synchronization method	**Full synchronization**: persists the changes made in Soffid, regardless of the possible changes made in the final system. **Incremental synchronization**: this type of synchronization is used to avoid losing changes that have been made to the target system. First, Soffid's changes will be propagated to the target system, and then the changes on the target system will be made in the Soffid system. If the changes are in the same attribute, the Soffid value is the one that will persist. *(**)*

2.3.1. Oracle connector:

Below there are the specific parameters for this agent implementation:

Parameter	Description
User	Sysdba user name to authenticate
Oracle password	Password of the user to authenticate
Connection string to database	Database URL. Use something like jdbc:oracle:thin:@host:port:sid
Password to protect roles	Optional password to use on password protected roles
Default user profile	Optional profile to set limits on the database resources and the user password
Default tablespace	Optional tablespace for user creation
Temporary tablespace	Optional temporary tablespace for user creation
Enable debug	Two options: [Yes / No]. When it is enabled more log traces are printed in the Synchronization Server log

3. Then, you should click the "Apply changes" button to save the new agent. Then Soffid will close the form, and display the agent list including the new agent created.

If you click the "Undo" button, the form will be closed and updates will not be saved.

> Once the agent is configured, it could be assigned to the host to continue with the PAM implementation process: Step 4. Add database

Screen overview

SQL Server agent

Name	SQL_Test
Description	SQL_Test
Type:	SQLServer Agent Class:com.soffid.iam.agent.sqlserver.SqlServerAgent
Server	Each main synchronization server
Shared Thread:	III No Dedicated threads: 1
Task timeout (ms)	Long task timeout (ms):
Trust passwords	III No
Read only	Yes III
Manual account creation	Yes III
User domain	Default user domain *
Passwords domain	Default password domain *

Connector parameters:

User	
Oracle password	🔑
Connection string to database	
Create agents for each database	Yes
Enable debug	No

Oracle agent

Name	SQL_Test
Description	SQL_Test
Type:	OracleAgent Class:com.soffid.iam.agent.oracle.OracleAgent
Server	Each main synchronization server
Shared Thread:	III No Dedicated threads: 1
Task timeout (ms)	Long task timeout (ms):
Trust passwords	III No
Read only	Yes III
Manual account creation	Yes III
User domain	Default user domain *
Passwords domain	Default password domain *

Connector parameters:

User	
Oracle password	🔑
Connection string to database	
Password to protect roles	🔑
Default user profile	
Default tablespace	
Temporary tablespace	
Enable debug	No

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