



Accelario

Data Masking Module

User Guide
V21.0

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1. Product Overview

The Accelario Data Masking module enables in-place masking using an intelligent, sensitive data search engine to easily locate and mask sensitive data. Data masking is performed in accordance with either customized or predefined masking policies (e.g. GDPR, HIPAA). Masked data is transformed into production quality data which preserves referential integrity with minimal user intervention throughout the masking process.

It contains the following components:

- > [Privacy Dashboard](#)
- > [Data Sources](#)
- > [Environments](#)
- > [Sensitive Data Search](#)
- > [Masking Editor](#)
- > [Masking Rules](#)
- > [Privacy Policies](#)
- > [Users](#)
- > [System Setup](#)
- > [Job Monitoring](#)
- > [Event Viewer](#)

1.1. Privacy Dashboard

Accelario **Privacy Dashboard** provides clear indications of your privacy exposures. It can scan all non-production data sources for privacy issues. With just one click you can easily drill-down to see an exposed data source. In the **Privacy Dashboard** window, you can:

- > Scan all data sources for sensitive data with one-click, compliant with specific privacy policies such as GDPR, CCPAV, PCI, HIPAA.
- > Refresh all data sources – metadata DDL is updated from the source. New / altered / deleted tables and columns are automatically updated.
- > See a global view of sensitive data for all managed data sources.
- > See a detailed view of sensitive data per managed data source.
- > Find privacy exposures at any level: data source, environment, database, schema, table/collection, and column/key.

For more information, see [Privacy Dashboard](#).

1.2. Data Sources

A **Data Source** is database or a file where data that is being used comes from. A **Data Source** is given a name and the location of the server is specified to set up a connection to the database. From the **Data Sources** window, you can:

- > Add a new data source
- > Modify/remove an existing data source



Only a user with **Admin** privileges can see or edit **Data Sources**.

For more information, see [Managing Data Sources](#).

1.3. Environments

An **Environment** is an object that groups together database schemas from a data source. An environment object is used for scanning and masking. From the **Environments** window, you can:

- > Add a new environment from a data source schema
- > Modify/Remove an existing environment
- > Refresh an environment – metadata is updated from the data source. new / altered / deleted tables and columns are automatically discovered / discarded. Foreign key relationships are updated to maintain referential integrity.

For more information, see [Managing Environments](#).

1.4. Sensitive Data Search

Accelario **Data Masking** incorporates an intelligent search engine that leverages advanced search algorithms containing lookup lists and AI technology. From the **Sensitive Search** window, you can:

- > Scan an environment with one-click, compliant with specific privacy policies such as GDPR, CCPA, PCI, HIPAA.
- > Masking rules are automatically assigned to the correct sensitive column(s)/key(s).
- > Foreign key groups are assigned with the same masking rules to maintain referential integrity.
- > See a high-level view of the scan results including Top Sensitive Data and statistics.
- > See a detailed view of all sensitive columns/keys that were found.
- > Select the sensitive column/key to be masked.

For more information, see [Searching for Sensitive Data](#).

1.5. Masking Editor

With the **Masking Editor** you can view / modify selected sensitive columns and manually assign masking rules to columns. From the **Masking Editor** window, you can:

- > Assign / modify a masking rule for a specified column/key.
- > Add a **Where Clause** to a table for masking.
- > Add a **Mailing Rule** to mask an address that is used in more than one columns in one table for a valid address.
- > Perform **Backup** / **Restore** of a masking configuration file.
- > Execute and monitor a Mask operation in the **Progress Monitor** window.
- > Add a **Mailing Rule** to mask an address that is spread over several columns in a particular table for a valid address.

For more information, see [Masking Editor – Editing Masking Rules and Running Masking Operation](#).

1.6. Masking Rules

A **Masking Rule** contains both the scanning and masking methods used to search for and mask specified sensitive data (e.g. Name, Email, Credit Card, etc.). From the **Masking Rules** window, you can:

- > See all supported built-in masking rules
- > Add and manage custom masking rules
- > Duplicate built-in/custom masking rule to create a new custom masking rule

For more information, see [Managing Masking Rules](#).

1.7. Privacy Policies

A **Privacy Policy** is a set of masking rules that are used to scan and mask following a specified privacy regulation such as GDPR, CCPA, HIPPA, PCI or a set of organizational specific privacy rules. From the **Privacy Policies** window, you can:

- > Add a new privacy policy.
- > View, modify, and duplicate a privacy policy.

For more information, see [Managing Privacy Policies](#).

1.8. Users

Accelario Data Masking uses a **role-based user management system**. All users can access the **Privacy Dashboard**. Users are divided into the following categories:

- > Admin – and Admin user can manage data sources, all environments and perform monitoring and troubleshooting
- > Regular users – regular users are restricted to scan and mask only the environments that they have authorized access



Only a user with Admin privileges can create or modify users and roles.

From the Users Management window, you can:

- > Create and modify users
- > Create and modify roles

For more information, see [Managing Users and Roles](#).

1.9. System Setup

The **System Setup** is used to define system parameters, such as SMTP, Active Directory, etc. From the **System Setup** window, you can:

- > Configure Active Directory Authorization
- > Configure SMTP configuration
- > Install new built-in masking rules online



Only a user with Admin privileges can access the System Setup.

For more information, see [System Setup](#).

1.10. Job Monitoring

Job Monitoring is used to monitor the status of current system jobs. From the **Job Monitoring** window, you can:

- > See all current or just terminated system jobs (the history system jobs can be seen in the Event Viewer window)
- > Drill down and see the detailed status of some of the system jobs



Only a user with **Admin** privileges can access **Job Monitoring**.

For more information, see [Job Monitoring](#).

1.11. Event Viewer

The **Event Viewer** is used to view and save all user events. From the **Event Viewer** window, you can:

- > View/filter/search all user events
- > Save all user events to a file

For more information, see [Event Viewer](#).

2. Login to the Data Masking Module

To login in to the Data Masking Module:



Your username and password are set by the approved person that does the user management process.

1. Enter your **Username** or **Email**.
2. Enter your **Password**.
3. Click **Login**.

A screenshot of the Accelario login interface. It features the Accelario logo at the top, followed by the text "Login to Accelario Data Masking". Below this are two input fields: "Username or Email" and "Password". At the bottom is a purple "Login" button.

ACCELARIO

Login to Accelario
Data Masking

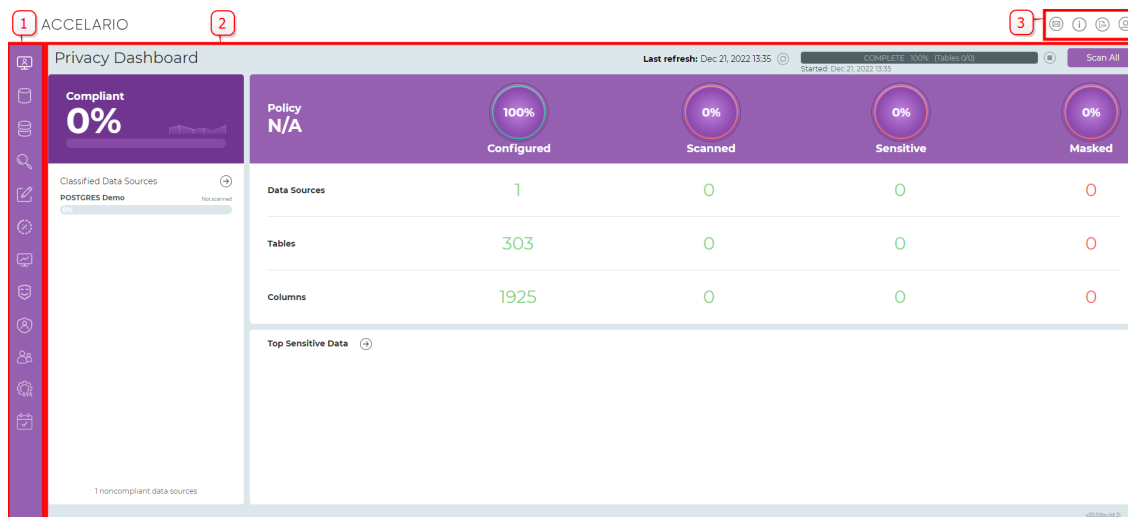
Username or Email

Password

Login

3. Getting to Know the GUI

The following image and table describe the Data Masking Module.

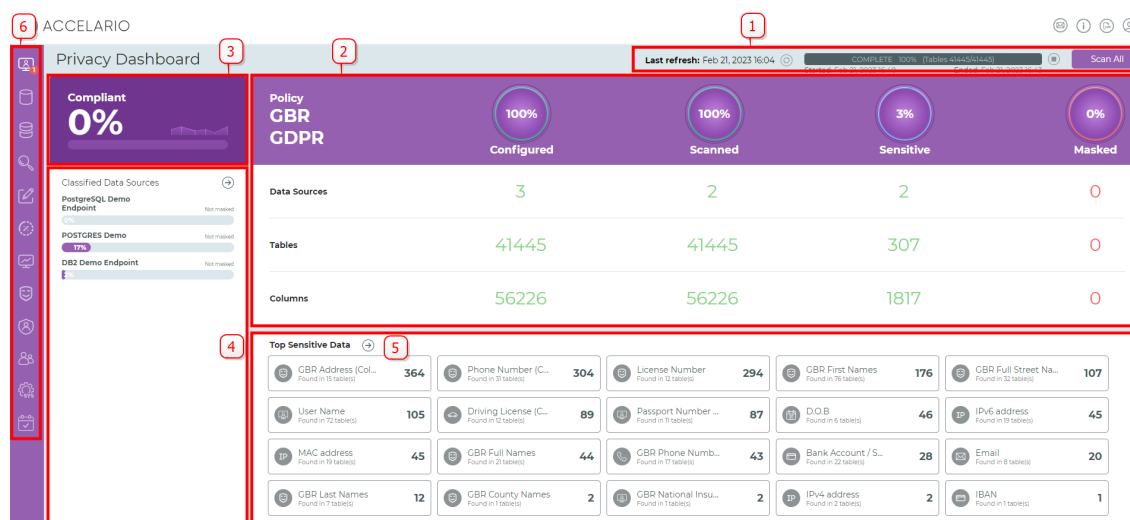


#	Item	Description
1	Navigation bar	Used to put content in the main work area.
2	Main Work Area	Main work area where you perform tasks
3	Task bar	System tasks

The interface is dynamic and changes according to the feature selected.

4. Privacy Dashboard

The **Privacy Dashboard** gives clear indications of your privacy exposures. It can refresh and scan all non-production data sources for privacy issues. With just one click you can easily drill-down to see an exposed data source. The following image and table describe the **Privacy Dashboard**.



#	Item	Description
1	Scan bar	Do a refresh and scan for all managed data sources.
2	View Area	Shows the status of a scan and applied masks for a specified privacy policy.
3	Compliant bar	Shows the compliant percentage.
4	Sensitive Data Sources	Shows all managed data sources with their sensitivity level.
5	Top Sensitive Data	Shows the top sensitive data.
6	Navigation Bar	Provides quick access to the main task areas.

To scan for potential sensitive data:

1. Click  (Scan All).
2. In the Scan Sensitive Data window, configure the scan parameters and click **Scan**.

Scan Sensitive Data

×

Environment:

All

* Privacy Policy:

Select Privacy Policy...

▼

* Parallel Processes:

4

* Number of unique values to analyze:

100

* Search Optimization:

?

Performance

▼

Search depth:

10

☒ Auto Refresh

☒ Incremental

Scan

Cancel



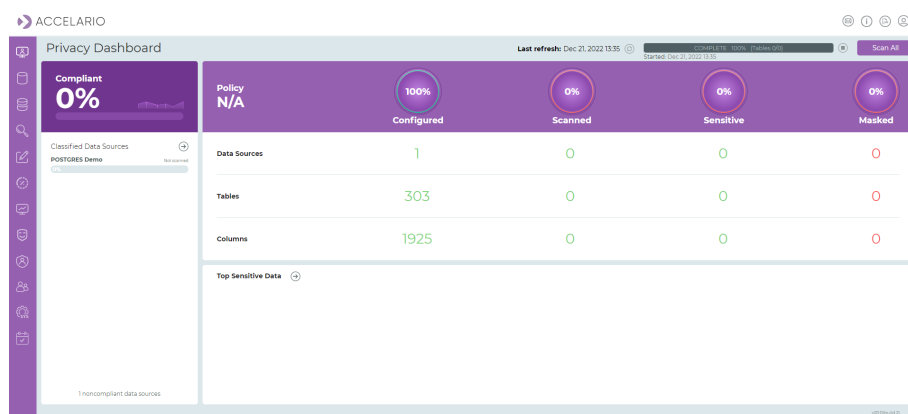
In all dialog boxes, an asterisk * next to a label on the left is used to identify a mandatory user input.

To stop a scan:

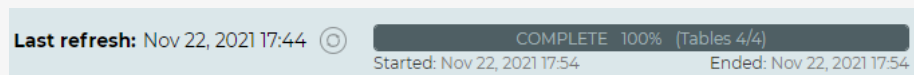
1. Click .

To do a Refresh All:

1. Click **Start refresh environments** .
2. All results from the previous scan is removed.

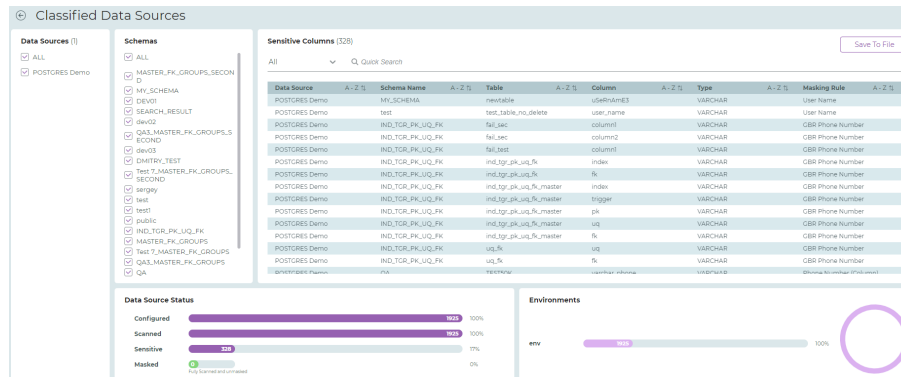


On the scan bar, you can see the following scan information:



To see the potential classified data sources:

1. Click **Classified Data Sources** .



Classified Data Sources

Data Sources (1)

- ☒ ALL
- ☒ POSTGRES Demo

Schemas

- ☒ ALL
- ☒ MASTER_FK_GROUPS, SECOND
- ☒ MY_SCHEMA
- ☒ DEMO
- ☒ SEARCH_RESULT
- ☒ QA42
- ☒ QA5_MASTER_FK_GROUPS, SECOND
- ☒ QA43
- ☒ DATA_TEST
- ☒ TEST_1_MASTER_FK_GROUPS, SECOND
- ☒ sergry
- ☒ test
- ☒ public
- ☒ IND_TOR_FK_UQ_FK
- ☒ MASTER_FK_GROUPS
- ☒ TEST_1_MASTER_FK_GROUPS
- ☒ QA5_MASTER_FK_GROUPS
- ☒ QA

Sensitive Columns (128)

All Quick Search

Save To File

Data Source	A-Z %	Schema Name	A-Z %	Table	A-Z %	Column	A-Z %	Type	A-Z %	Masking Rule	A-Z %
POSTGRES Demo		MY_SCHEMA		newtable		username#3		VARCHAR		User Name	
POSTGRES Demo		test		test_table_no_delete		user_name		VARCHAR		User Name	
POSTGRES Demo		IND_TOR_FK_UQ_FK		tbl_sec		column1		VARCHAR		GBR Phone Number	
POSTGRES Demo		IND_TOR_FK_UQ_FK		tbl_sec		column2		VARCHAR		GBR Phone Number	
POSTGRES Demo		IND_TOR_FK_UQ_FK		tbl_sec		column1		VARCHAR		GBR Phone Number	
POSTGRES Demo		IND_TOR_FK_UQ_FK		ind_tgr_pk_uq_fk		index		VARCHAR		GBR Phone Number	
POSTGRES Demo		IND_TOR_FK_UQ_FK		ind_tgr_pk_uq_fk		%		VARCHAR		GBR Phone Number	
POSTGRES Demo		IND_TOR_FK_UQ_FK		ind_tgr_pk_uq_fk_master		index		VARCHAR		GBR Phone Number	
POSTGRES Demo		IND_TOR_FK_UQ_FK		ind_tgr_pk_uq_fk_master		trigger		VARCHAR		GBR Phone Number	
POSTGRES Demo		IND_TOR_FK_UQ_FK		ind_tgr_pk_uq_fk_master		pk		VARCHAR		GBR Phone Number	
POSTGRES Demo		IND_TOR_FK_UQ_FK		ind_tgr_pk_uq_fk_master		uq		VARCHAR		GBR Phone Number	
POSTGRES Demo		IND_TOR_FK_UQ_FK		ind_tgr_pk_uq_fk_master		%		VARCHAR		GBR Phone Number	
POSTGRES Demo		IND_TOR_FK_UQ_FK		uq_fk		%		VARCHAR		GBR Phone Number	
POSTGRES Demo		IND_TOR_FK_UQ_FK		uq_fk		%		VARCHAR		GBR Phone Number	
SPRINT-IP-Phone		QA		TECHNOLOGY		user_name		VARCHAR		GBR Phone Number (Phone)	

Data Source Status

- Configured: 100%
- Scanned: 100%
- Sensitive: 100%
- Masked: 0%

Environments

- env: 100%

2. To return to the **Privacy Dashboard**, click **Classified Data Sources** .

To see top sensitive data:

1. Click **Top Sensitive Data** .




Top Sensitive Data

Sensitive Data

- ☒ ALL
- ☒ Phone Number (Column) (72)
- ☒ License Number (56)
- ☒ GBR Address (Column) (54)
- ☒ GBR First Names (44)
- ☒ Passport Number (Column) (20)
- ☒ User Name (18)
- ☒ Driving License (Column) (16)
- ☒ GBR Phone Number (7)
- ☒ GBR Full Names (8)
- ☒ MAC address (8)
- ☒ IPv6 address (8)
- ☒ Email (4)
- ☒ GBR Full Street Name (4)

All Quick Search

Data Source	A-Z %	Schema Name	A-Z %	Table	A-Z %	Column	A-Z %	Type	A-Z %	Masking Rule	A-Z %
POSTGRES Demo		QA		TESTSOK		varchar_phone		VARCHAR		Phone Number (Column)	
POSTGRES Demo		QA		TESTSOK		char_phone		CHAR		Phone Number (Column)	
POSTGRES Demo		QA		TESTSOK		nchar_phone		CHAR		Phone Number (Column)	
POSTGRES Demo		QA		TESTSOK		nvarchar_phone		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		phonenumber		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		celno		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		cel_no		CHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		cel		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		cel_number		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		phonecontact		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		phonecontact		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		cellphone		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		cell_phone		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		landline		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		land_line		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		businessphone		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		business_phone		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		workphone		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		work_phone		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		homephone		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		home_phone		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		tel		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		telephone		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		cell		VARCHAR		Phone Number (Column)	
POSTGRES Demo		MASTER_MASKING		PHONE_NUMBER(COLUMN)		cellular		VARCHAR		Phone Number (Column)	

2. To return to the **Privacy Dashboard**, click **Top Sensitive Data** .

5. Quick Start for SQL Databases

The following sections from Quick Start to Privacy dashboard are for SQL databases such as:

- > ORACLE
- > DB2 LUW
- > DB2 z/OS
- > PostgreSQL
- > MS-SQLServer
- > SAP HANA
- > MySQL
- > MySQL Aurora



The following example shows the procedure to deploy a PostgreSQL. This is a general procedure and is applicable for all the databases listed above.

Return to [Privacy Dashboard](#).

Continue to [Managing Data Sources](#).

Deploying the Data Masking Module

Procedure to deploy the Data Masking Module:

1. [Adding a Data Source](#)
2. [Creating an Environment](#)
3. [Performing a Sensitive Data Search](#)
4. [Manual Editing the Masking Configuration](#)
5. [Data Masking and Progress Monitoring](#)

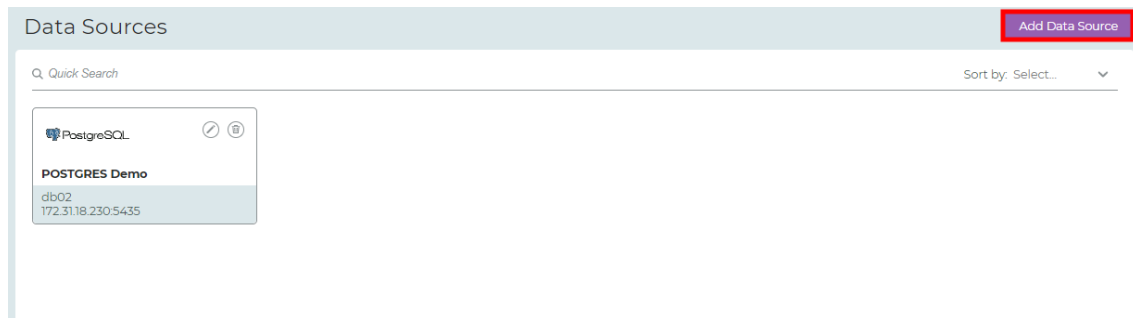
Adding a Data Source

To add a Data Source:

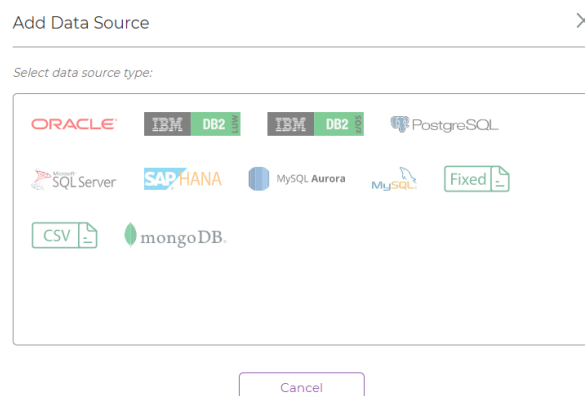
1. On the navigation bar, click  (Data Sources).



2. Click **Add Data Source**.



3. Select source data type.



4. Fill in the data source details.

Add Data Source

PostgreSQL

* Name:

Enter name

* Host:

Enter host

* Port:

Enter port

* DB name:

Enter db name

* User:

Enter username

* Password:

Enter password

Wallet:

☐ Create Environment

Test Connection

Add

Back




In all dialog boxes, an asterisk * next to a label on the left is used to identify a mandatory user input.

5. Click **Test Connection** to verify that the connection to the new data source is valid.
6. Click **Create Environment** to automatically create an environment that includes all schemes of this data source.
7. Click **Add**.

Creating an Environment

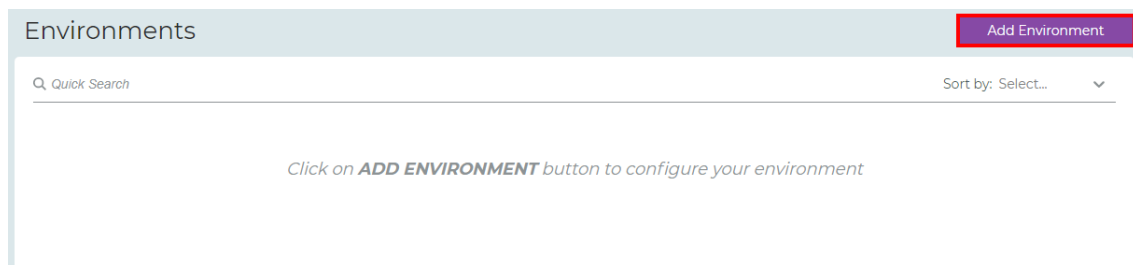
To create an environment:

1. On the navigation bar, click  (Environments).



To add a new environment:

1. Click **Add Environment**.



2. Fill in the environment details:

- a. In **Environment name**, provide a name.
- b. Under **Data Sources**, select the data source for the new environment.
- c. Under **Schemes**, select the data source schemes that the environment will use, or click **Select All** to include all schemes of the selected data source.

Add Environment

✕

Environment name:

Data Sources:

A-Z ↓

DB2 Demo Endpoint
Frankfurt1
Frankfurt2
local_Oracle_endpoint
MongoDB Demo Endpoint
MS Sql Demo Endpoint
POSTGRES Demo
PostgreSQL Demo Endpoint

Schemes:

Select Tables

🔍 Quick search

Add

Cancel

3. For specific tables from Schemas:
 - a. In **Data Sources**, select a data source.
 - b. In **Schemes**, click **Select Tables**.

Add Environment

Environment name: env

Data Sources: A-Z ↓

- DB2 Demo Endpoint
- Frankfurt1
- Frankfurt2
- local_Oracle_endpoint
- MongoDB Demo Endpoint
- MS Sql Demo Endpoint
- POSTGRES Demo
- PostgreSQL Demo Endpoint

Schemes: Select Tables

Quick search

- ☒ Select All
- ☒ db 2/2 tables
- ☒ DB 1/1 tables
- ☒ DEV01 0/3 tables
- ☒ dev02 0/2 tables
- ☒ dev03 0/3 tables
- ☒ DMITRY_TEST 0/2 tables

Add Cancel

- c. Clear the checkbox for a table not to be included.



The list shown is the list from the last refresh. To update the list, click **Refresh**.

4. Click **Submit**.
5. Click **Add**.

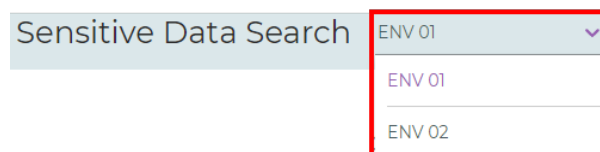
Performing a Sensitive Data Search

To perform a new sensitive data search:

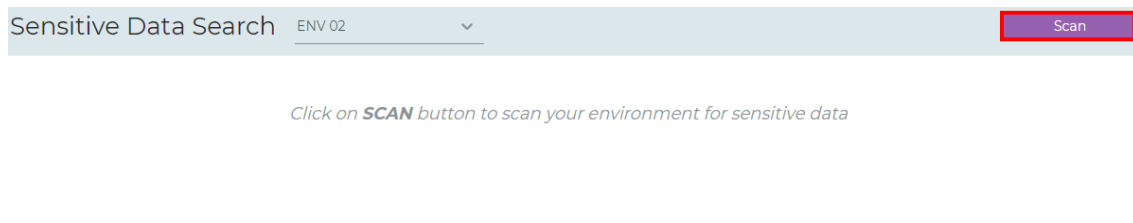
1. On the navigation bar, click  (Sensitive Search).



2. Select the required environment for searching for sensitive data.

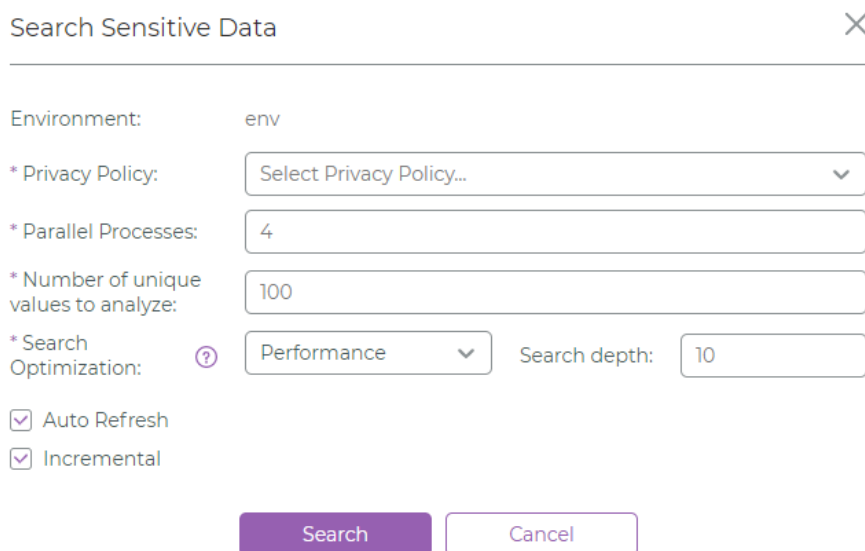


3. Click **Scan**.



The image shows a header bar for 'Sensitive Data Search' with a dropdown menu set to 'ENV 02'. A red rectangular box highlights a 'Scan' button in the top right corner. Below the header, a message reads: 'Click on **SCAN** button to scan your environment for sensitive data'.

4. In the **Search Sensitive Data** window, configure the search parameters.



The 'Search Sensitive Data' dialog box contains the following fields and controls:

- Environment: env
- * Privacy Policy: Select Privacy Policy... (dropdown menu)
- * Parallel Processes: 4 (text input)
- * Number of unique values to analyze: 100 (text input)
- * Search Optimization: Performance (dropdown menu) with a help icon (?)
- Search depth: 10 (text input)
- ☒ Auto Refresh
- ☒ Incremental
- Buttons: Search, Cancel



In all dialog boxes, an asterisk * next to a label on the left is used to identify a mandatory user input.

4. Select the **Auto Refresh** checkbox to have the system refresh automatically before doing a scan.
5. Select the **Incremental** checkbox to include columns that were found in a scan done before to be in the search results for this scan.



Columns that are not sensitive at this time are marked as deleted.

6. Click **Search**.

To stop the search:

1. Click  (**Stop**).

Sensitive Data Search envl COMPLETE 100% Tables: 143/143 Started Nov 03, 2022 15:57 Ended Nov 03, 2022 15:57 Scan

Data Sources	Tables	Columns
1 Scanned Data Sources	143 Scanned Tables	909 Scanned Columns
1 Contain Sensitive Data	157 Contain Sensitive Data	364 Contain Sensitive Data

After the scan is complete, the scan summary appears.

Sensitive Data Search envl COMPLETE 100% Tables: 303/303 Started Nov 03, 2022 15:13 Ended Nov 03, 2022 15:13 Scan

Data Sources	Tables	Columns
1 Scanned Data Sources	303 Scanned Tables	1925 Scanned Columns
1 Contain Sensitive Data	106 Contain Sensitive Data	774 Contain Sensitive Data

Masking Policy: GBR GDPR Details

Sensitive Data

Passport Number Found in 21 Table(s) 111	Credit Card Found in 16 Table(s) 100	GBR Full Street Na... Found in 14 Table(s) 76	Phone Number (C... Found in 6 Table(s) 72	GBR First Names Found in 24 Table(s) 69	License Number Found in 2 Table(s) 56
GBR Address (Col... Found in 2 Table(s) 54	IPv6 address Found in 9 Table(s) 35	Email Found in 10 Table(s) 35	GBR Full Names Found in 8 Table(s) 32	GBR Last Names Found in 10 Table(s) 29	MAC address Found in 7 Table(s) 27
User Name Found in 6 Table(s) 18	Driving License (C... Found in 2 Table(s) 16	IBAN Found in 4 Table(s) 16	GBR Phone Numb... Found in 4 Table(s) 12	Bank Account / S... Found in 3 Table(s) 12	GBR City Names Found in 1 Table(s) 2

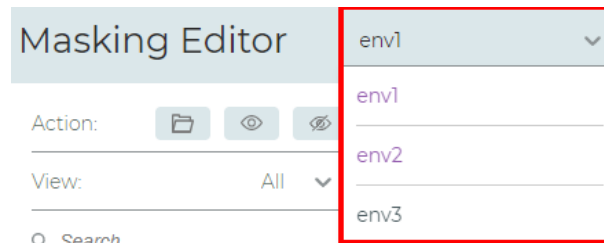
Manual Editing the Masking Configuration

To manually edit the masking configuration:

1. On the navigation bar, click  (Masking Editor).



2. Select the required environment.



To filter the list of tables:

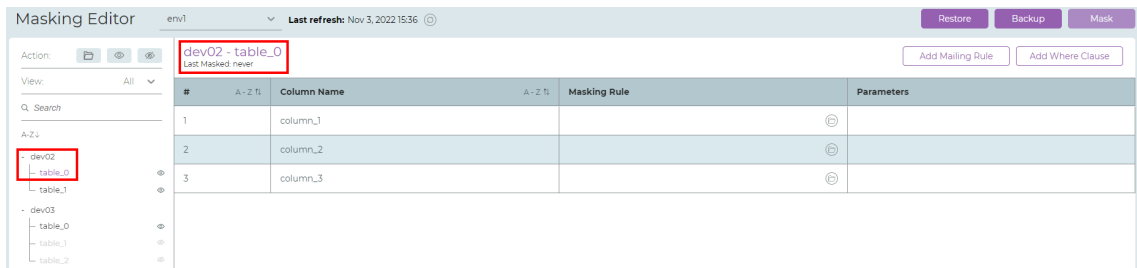
1. Select active or inactive.
2. Select:
 - a. View all tables
 - b. Active tables
 - c. Inactive tables

You can also search for specific tables.

3. Select the required table for which you want to assign a masking rule.



4. The main panel displays the masking rules currently applied to the columns in the table selected.

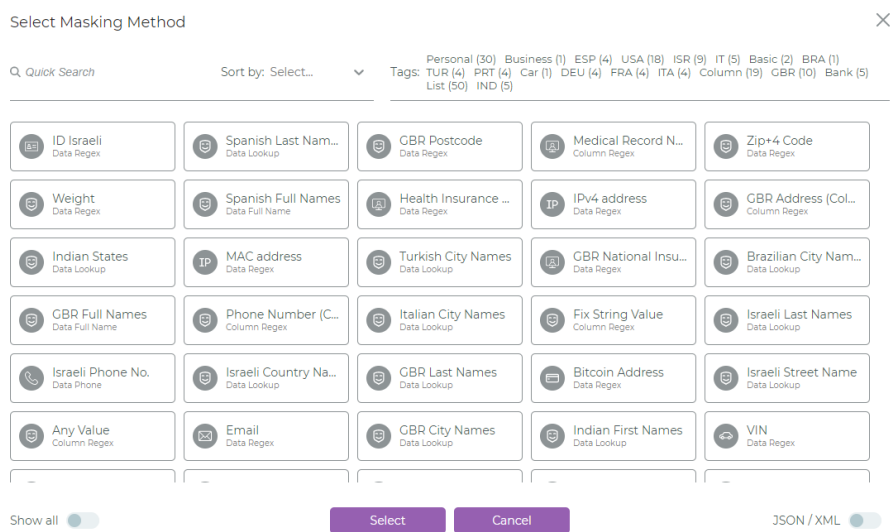


To select another/new masking rule:

1. For the required column, click .



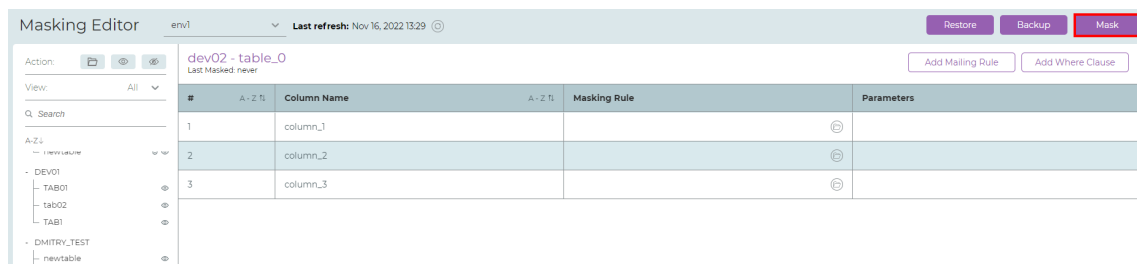
2. Click the required masking rule and click **Select**.



Data Masking and Progress Monitoring

To mask the selected table:

1. Click **Mask**.



Masking Editor env1 Last refresh: Nov 16, 2022 13:29

dev02 - table_0
Last Masked: never

Buttons: Restore, Backup, Mask, Add Masking Rule, Add Where Clause

#	A-Z Fl	Column Name	Masking Rule	Parameters
1		column_1		
2		column_2		
3		column_3		

Left sidebar: A-Z, DEV01, TAB01, tab02, TAB1, DMITRY_TEST, newtable

2. Fill in the masking details and click **Mask**.

Mask

Environment:

env1

* Parallel processes:

20

+ Advanced Parameters

Mask

Cancel

3. Enter **Advanced Parameters** if necessary.

Mask

Environment:

env1

* Parallel processes:

20

- Advanced Parameters

Fetch size:

1000

Batch size:

1000

Number of masking
warning to fail (per table):

0

Sleep after batch (ms):

0

Disable database objects:

Smart Mode

Mask

Cancel

4. Once masking is running, the **Progress Monitor** appears.

Progress Monitor

ENV 01

COMPLETE 100% (Tables:4/4)

Started: Nov 16, 2023 16:03

Ended: Nov 16, 2023 16:03

Data Source: POSTGRES Demo

Fetch size: 10000


Batch size: 10000

Parallel processes: 20

All

Quick Search

Table Name	%	Schema	%	Progress	%	Status	%	Elapse Time	%
TABLE1		QA		<div>COMPLETE 100% (Rows 10/10)</div>		COMPLETE		235 ms	
TABLE2		QA		<div>COMPLETE 100% (Rows 10/10)</div>		COMPLETE		242 ms	
TABLE1		QA1		<div>COMPLETE 100% (Rows 10/10)</div>		COMPLETE		247 ms	
TABLE2		QA1		<div>COMPLETE 100% (Rows 10/10)</div>		COMPLETE		239 ms	

5. To see the progress in other environments click  and click the required environment.

Progress Monitor

env

Data Source: MongoDB Demo Endpoint

All

Quick Search

env

env1

env

6. Quick Start for NoSQL Databases

The following sections from Quick Start to Privacy dashboard are for a MongoDB.

Return to [Privacy Dashboard](#).

Continue to [Managing Data Sources](#).

Deploying the Data Masking Module

Procedure to deploy the Data Masking Module:

1. [Adding a Data Source](#)
2. [Creating an Environment](#)
3. [Performing a Sensitive Data Search](#)
4. [Manual Editing the Masking Configuration](#)
5. [Data Masking and Progress Monitoring](#)

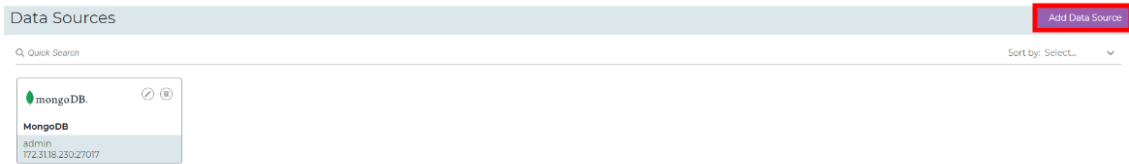
Adding a Data Source

To add a Data Source:

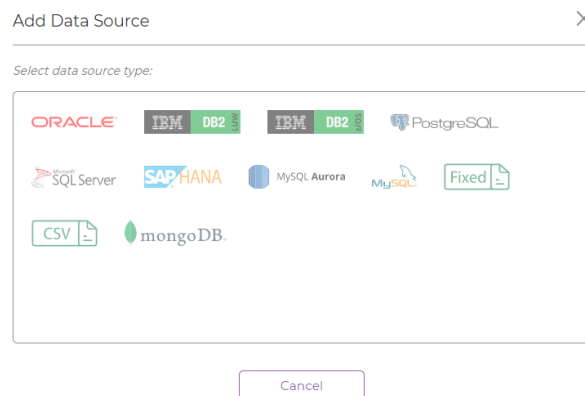
1. On the navigation bar, click  (Data Sources).



2. Click **Add Data Source**.




3. Select source data type.



4. Fill in the data source details.

Add Data Source

 mongoDB.

×

* Name:

MongoDB

* Host:

172.31.18.230

* Port:

27017

* Authentication DB:

admin

* User:

mongoadmin

* Password:

.....

☐ Create Environment

Test Connection

Add

Back




In all dialog boxes, an asterisk * next to a label on the left is used to identify a mandatory user input.

5. Click **Test Connection** to verify that the connection to the new data source is valid.
6. Click **Create Environment** to automatically create an environment that includes all schemes of this data source.
7. Click **Add**.

Creating an Environment

To create an environment:

1. On the navigation bar, click  (Environments).



To add a new environment:

1. Click **Add Environment**.



2. Fill in the environment details:

- a. In **Environment name**, provide a name.
- b. Under **Data Sources**, select the data source for the new environment.
- c. Under **Databases**, select the data source databases that the environment will use, or click **Select All** to include all Databases of the selected data source.

Add Environment

✕

Environment name:

Data Sources: A-Z ↓

DB2 Demo Endpoint
Frankfurt1
Frankfurt2
local_Oracle_endpoint
MongoDB Demo Endpoint
MS Sql Demo Endpoint
POSTGRES Demo
PostgreSQL Demo Endpoint

Schemes: Select Tables

Q Quick search

Add

Cancel

3. For specific collections from databases:
 - a. In **Data Sources** select a data source.
 - b. In **Databases**, click **Select Collection**.

Add Environment

Environment name: env

Data Sources:	A-Z ↓	Databases:
DB2 Demo Endpoint		<input type="checkbox"/> local 2/2 collections
Frankfurt1		<input checked="" type="checkbox"/> MASKING_EXAMPLES 3/3 collections
Frankfurt2		<input checked="" type="checkbox"/> MASKING_NESTED 6/6 collections
local_Oracle_endpoint		<input checked="" type="checkbox"/> MASTER_DB 7/7 collections
MongoDB Demo Endpoint		<input checked="" type="checkbox"/> MASTER_MASKING 90/107 collections
MS Sql Demo Endpoint		<input checked="" type="checkbox"/> test_db 7/7 collections
POSTGRES Demo		<input type="checkbox"/> VLADIMIR_DB
PostgreSQL Demo Endpoint		

Add Cancel

- c. Clear the checkbox for a collection not to be included.



The list shown is the list from the last refresh. To update the list, Click **Refresh**.

4. Click **Submit**.
5. Click **Add**.

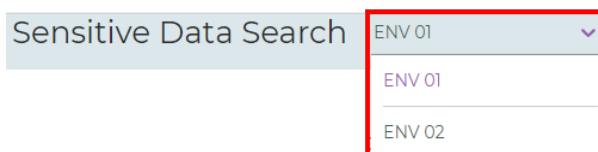
Performing a Sensitive Data Search

To perform a new sensitive data search:

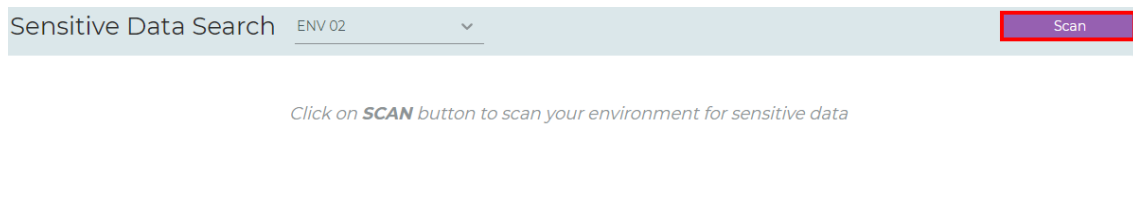
1. On the navigation bar, click  (Sensitive Search).



2. Select the required environment for searching for sensitive data.

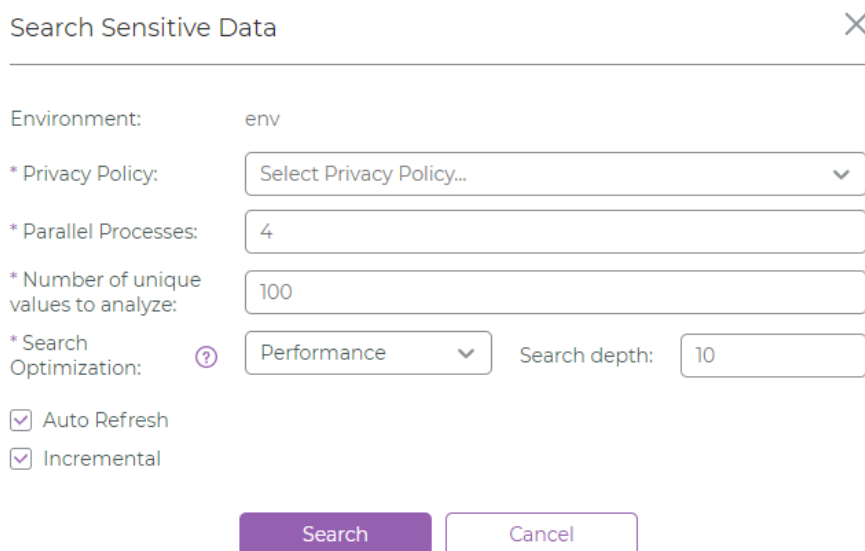


3. Click **Scan**.



The image shows a header bar for 'Sensitive Data Search' with a dropdown menu currently set to 'ENV 02'. On the right side of the header is a red 'Scan' button. Below the header, a message reads: 'Click on **SCAN** button to scan your environment for sensitive data'.

4. In the **Search Sensitive Data** window, configure the search parameters.



The 'Search Sensitive Data' dialog box contains the following fields and controls:

- Environment: env
- * Privacy Policy: Select Privacy Policy... (dropdown)
- * Parallel Processes: 4
- * Number of unique values to analyze: 100
- * Search Optimization: Performance (dropdown) with a help icon (?)
- Search depth: 10
- ☒ Auto Refresh
- ☒ Incremental
- Buttons: Search, Cancel



In all dialog boxes, an asterisk * next to a label on the left is used to identify a mandatory user input.

4. Select the **Auto Refresh** checkbox to have the system refresh automatically before doing a scan.
5. Select the **Incremental** checkbox to include columns that were found in a scan done before to be in the search results for this scan.



Columns that are not sensitive at this time are marked as deleted.

6. Click **Search**.

To stop the search:

1. Click  (**Stop**).

Sensitive Data Search env COMPLETE 100% Collections 115/115 Started: Feb 21, 2023 16:15 Ended: Feb 21, 2023 16:16 Scan

Data Sources	Collections	Keys
1 Scanned Data Sources	115 Scanned Collections	2021 Scanned Keys
1 Contain Sensitive Data	49 Contain Sensitive Data	571 Contain Sensitive Data

After the scan is complete, the scan summary appears.

Sensitive Data Search env COMPLETE 100% Collections 115/115 Started: Feb 21, 2023 16:15 Ended: Feb 21, 2023 16:16 Scan

Data Sources	Collections	Keys
1 Scanned Data Sources	115 Scanned Collections	2021 Scanned Keys
1 Contain Sensitive Data	49 Contain Sensitive Data	571 Contain Sensitive Data

Privacy Policy: GBR GDPR Details

Sensitive Data

Phone Number (C... Found in 12 collection(s))	154	GBR Address (Col... Found in 4 collection(s))	66	License Number Found in 10 collection(s)	65	GBR First Names Found in 13 collection(s)	64	GBR Full Street Na... Found in 7 collection(s)	39	User Name Found in 10 collection(s)	32
GBR Last Names Found in 7 collection(s)	26	D.O.B Found in 8 collection(s)	26	GBR Phone Numbr... Found in 5 collection(s)	22	GBR Full Names Found in 7 collection(s)	20	Driving License (C... Found in 6 collection(s)	13	Passport Number ... Found in 4 collection(s)	13
MAC address Found in 3 collection(s)	10	GBR County Names Found in 3 collection(s)	9	GBR City Names Found in 1 collection(s)	4	IPv4 address Found in 3 collection(s)	3	GBR National Insu... Found in 2 collection(s)	2	Credit Card Found in 2 collection(s)	2
Bank Account / S... Found in 1 collection(s)	1										

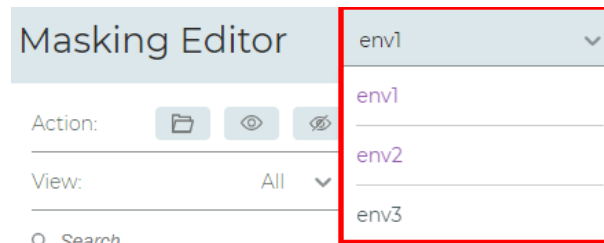
Manual Editing the Masking Configuration

To manually edit the masking configuration:

1. On the navigation bar, click  (Masking Editor).



2. Select the required environment.



To filter the list of collections:

1. Select active or inactive.
2. Select:
 - a. View all collections
 - b. Active collections
 - c. Inactive collections

You can also search for specific collections.

3. Select the required table for which you want to assign a masking rule.



4. The main panel displays the masking rules currently applied to the keys in the table selected.

Masking Editor

env

Last refresh: Feb 21, 2023 16:14

RestoreBackupMask

Action: [Icons]

View: All

Q Search

A-Z: [Tree View]

MASKING_NESTED - arrays

Last Masked: never

Add Mailing RuleAdd Where Clause

Key Name	A - Z ↑↓	Masking Method	Parameters
[arraynonsensitive].[bitcoinvalues]			
nonsensitiveobject.[serialnum]			
[dob]		D.O.B	Deviation (Days): 30
[userid].death			
[array_of_arrays_and_objects].drivinglicensenumber		Driving License (Column)	

To select another/new masking rule:

1. For the required column, click .

MASKING_NESTED - arrays

Last Masked: never

Add Mailing RuleAdd Where Clause

Key Name	A - Z ↑↓	Masking Method	Parameters
[arraynonsensitive].[bitcoinvalues]			
nonsensitiveobject.[serialnum]			
[dob]		D.O.B	Deviation (Days): 30

2. Click the required masking rule and click **Select**.

Select Masking Method

×

Q Quick Search

Sort by: Select...

Personal (30) Business (1) ESP (4) USA (18) ISR (9) IT (5) Basic (2) BRA (1) Tags: TUR (4) PRT (4) Car (1) DEU (4) FRA (4) ITA (4) Column (19) GBR (10) Bank (5) List (50) IND (5)

ID Israeli

Spanish Last Nam...

GBR Postcode

Medical Record N...

Zip+4 Code

Weight

Spanish Full Names

Health Insurance ...

IPv4 address

GBR Address (Col...

Indian States

MAC address

Turkish City Names

GBR National Insu...

Brazilian City Nam...

GBR Full Names

Phone Number (C...

Italian City Names

Fix String Value

Israeli Last Names

Israeli Phone No.

Israeli Country Na...

GBR Last Names

Bitcoin Address

Israeli Street Name

Any Value

Email

GBR City Names

Indian First Names

VIN

Show all

SelectCancel

JSON / XML

Data Masking and Progress Monitoring

To mask the selected collection:

1. Click **Mask**.

The screenshot shows the 'Masking Editor' interface. At the top, there's a header with 'env' and 'Last refresh: Feb 21, 2023 16:14'. On the right, there are buttons for 'Restore', 'Backup', and 'Mask' (highlighted in red). Below the header, there's a sidebar on the left with a tree view showing the collection structure: 'MASKING_NESTED' (expanded) containing 'arrays', 'dict nesting 2', 'dictionary nesting', 'dictionary nesting origi...', and 'movies'. The main area displays a table titled 'MASKING_NESTED - arrays' with columns: 'Key Name', 'Masking Method', and 'Parameters'. The table contains five rows of masking rules.

Key Name	Masking Method	Parameters
[arraynonsensitive].[bitcoinvalues]		
nonsensitiveobject.[serialnum]		
[dob]	D.O.B	Deviation (Days): 30
[userid].death		
[array_of_arrays_and_objects].drivinglicensenum	Driving License (Column)	

2. Fill in the masking details and click **Mask**.

The screenshot shows a 'Mask' dialog box. It has a title bar with a close button (X). The main content area contains the following fields and controls:

- Environment:** A text field with the value 'env1'.
- * Parallel processes:** A text field with the value '20'.
- + Advanced Parameters:** A section header.
- Buttons:** At the bottom, there are two buttons: 'Mask' (highlighted in purple) and 'Cancel'.

3. Enter **Advanced Parameters** if necessary.

Mask

✕

Environment:

env1

* Parallel processes:

20

- Advanced Parameters

Fetch size:

1000

Batch size:

1000

Number of masking
warning to fail (per table):

0

Sleep after batch (ms):

0

Disable database objects:

Smart Mode

Mask

Cancel

4. Once masking is running, the **Progress Monitor** appears.

Progress Monitor env					
PARTIALLY COMPLETED: 81% Collections: 24					
Started: Feb 21, 2023 16:21 Ended: Feb 21, 2023 16:21					
Data Source: MongoDB Demo Endpoint Fetch size: 1000 Batch size: 1000 Parallel processes: 20					
All Quick Search					
Collection Name	Database	Progress	Status	Elapse Time	
DOB	MASTER_MASKING	COMPLETE 100% (Documents 22/22)	COMPLETE	00:00:02	
PHONE_NUMBER_COLUMN_numeric_...	MASTER_MASKING	COMPLETE 100% (Documents 19/19)	COMPLETE	00:00:04	
arrays	MASKING_NESTED	ERROR	ERROR	00:00:00	
10 documents (a minimum number of values for search for each rule)	MASTER_DB	COMPLETE 100% (Documents 11/11)	COMPLETE	00:00:05	

5. To see the progress in other environments click ▼ and click the required environment.

Progress Monitor

env ▼

Data Source: MongoDB Demo Endpoint

All Quick Search

env1

env

7. Managing Data Sources

A **Data Source** is database or a file where data that is being used comes from. This section describes how to define and manage the data sources. The following examples show PostgreSQL but are correct for all the databases.



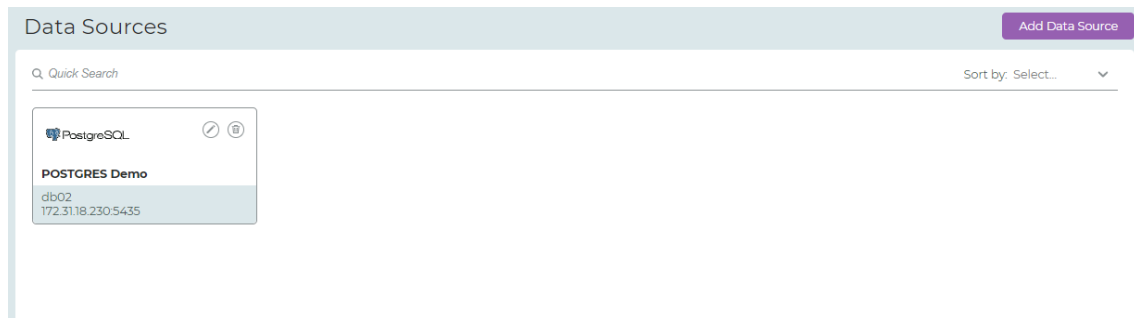
Only a user with **Admin** privileges can see or edit **Data Sources**.

To see available data sources:

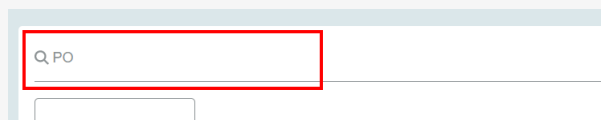
1. On the navigation bar, click  (**Data Sources**).



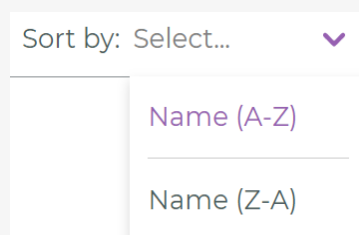
2. The **Data Sources** window appears displaying all data sources that have been added to the system.



You can quickly locate content by typing its letters on the **Quick Search** bar. The list updates promptly.




You can display the list in ascending or descending alphabetical order.

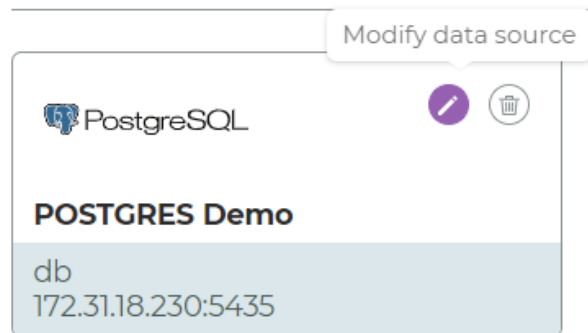


To add a data source for a SQL database, see [Adding a Data Source](#).

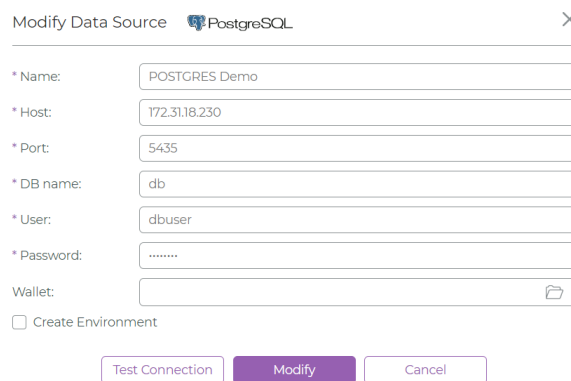
To add a data source for a NoSQL database, see [Adding a Data Source](#).

To modify data source details:

1. On the required data source, click  (Modify data source).




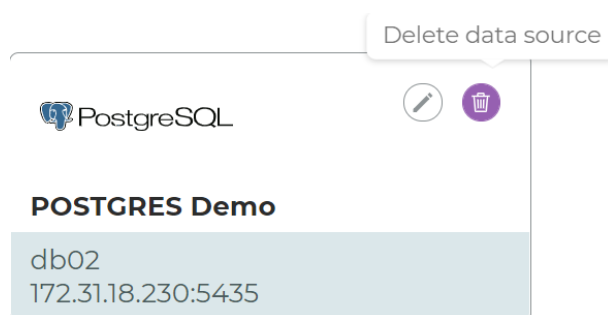
2. The **Modify Data Source** window appears. Modify the data source details as required.

A screenshot of the 'Modify Data Source' window for PostgreSQL. The window has a title bar with 'Modify Data Source', a PostgreSQL logo, and a close button. It contains several input fields: '* Name:' with 'POSTGRES Demo', '* Host:' with '172.31.18.230', '* Port:' with '5435', '* DB name:' with 'db', '* User:' with 'dbuser', and '* Password:' with a masked password. There is also a 'Wallet:' field with a folder icon. A checkbox labeled 'Create Environment' is at the bottom left. At the bottom right are three buttons: 'Test Connection', 'Modify' (highlighted in purple), and 'Cancel'.

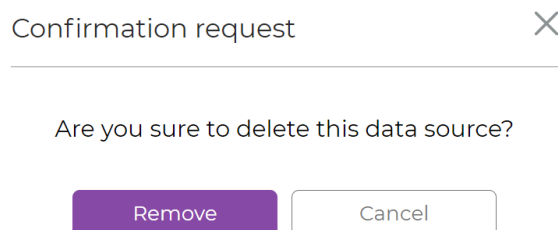
3. To save your changes, click **Modify**. Otherwise, click **Cancel**.

To delete a data source:

1. On the required data source, click  (Delete data source).




2. Click **Remove** to confirm the deletion, or **Cancel** to exit without deleting the data source.



8. Managing Environments

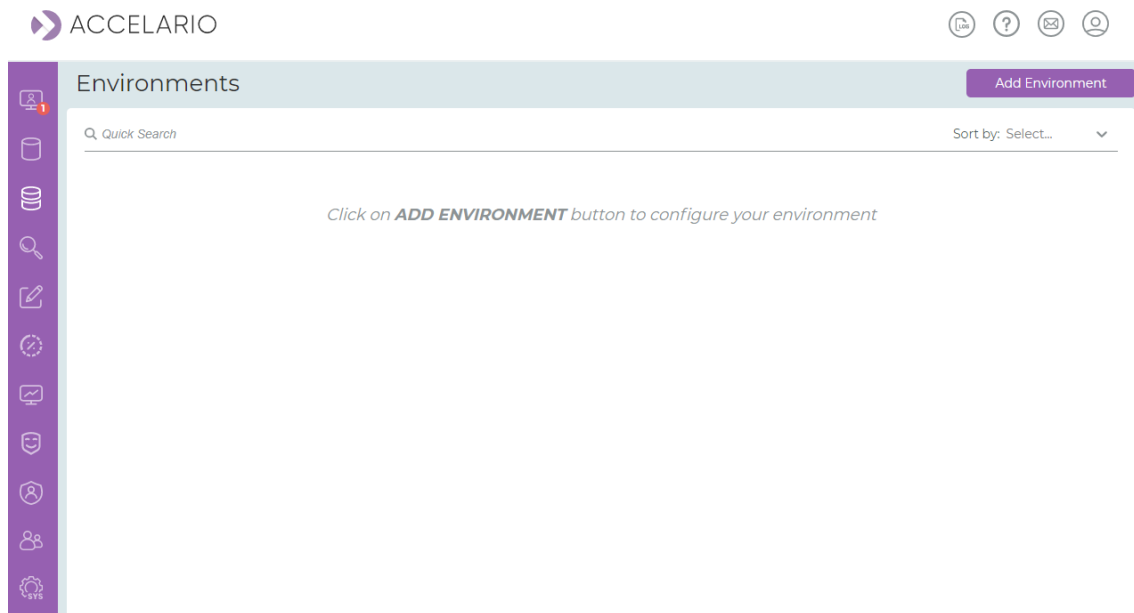
An Environment is an object that groups together database schemas from a data source. An environment object is used for scanning and masking. The following examples show PostgreSQL but are correct for all the databases.

To see your environments:

1. On the navigation bar, click  (Environments).



2. The **Environments** window appears.




You can quickly locate content by typing its letters on the **Quick Search** bar. The list updates promptly.





You can display the list in ascending or descending alphabetical order.

Sort by: Select... 


Name (A-Z)

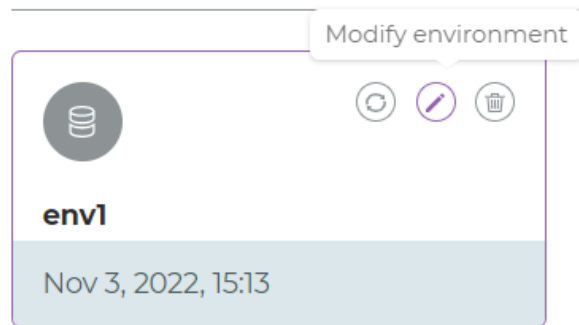
Name (Z-A)

To add an environment for a SQL database, see [Creating an Environment](#).

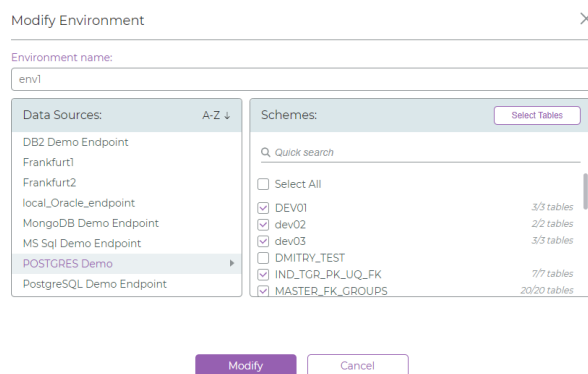
To add an environment for a NoSQL database, see [Creating an Environment](#).

To modify environment details:

1. On the required environment, click  (Modify environments) .



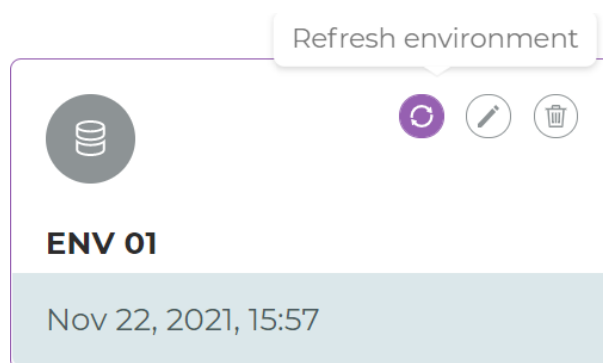
2. The **Modify Environment** window appears. Modify the environment details as required.



3. To save your changes, click **Modify**. Otherwise, click **Cancel**.

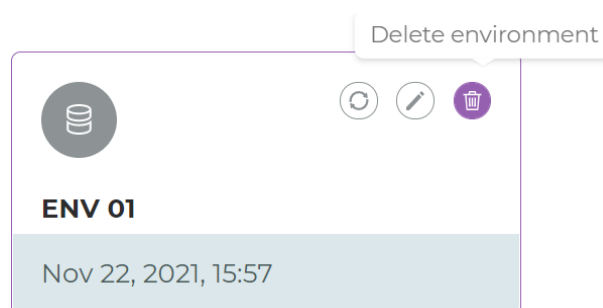
To refresh an environment:

1. On the environment , click  (Refresh environment).



To delete an environment:

1. On the environment , click  (Delete environment).



2. Click **Remove** to confirm the deletion, or **Cancel** to exit without deleting the environment.

Confirmation request

X

Are you sure to delete this environment?

Remove

Cancel

9. Searching for Sensitive Data


Accelario Data Masking includes an intelligent search engine that leverages advanced search algorithms that contain lookup lists and AI-technology.

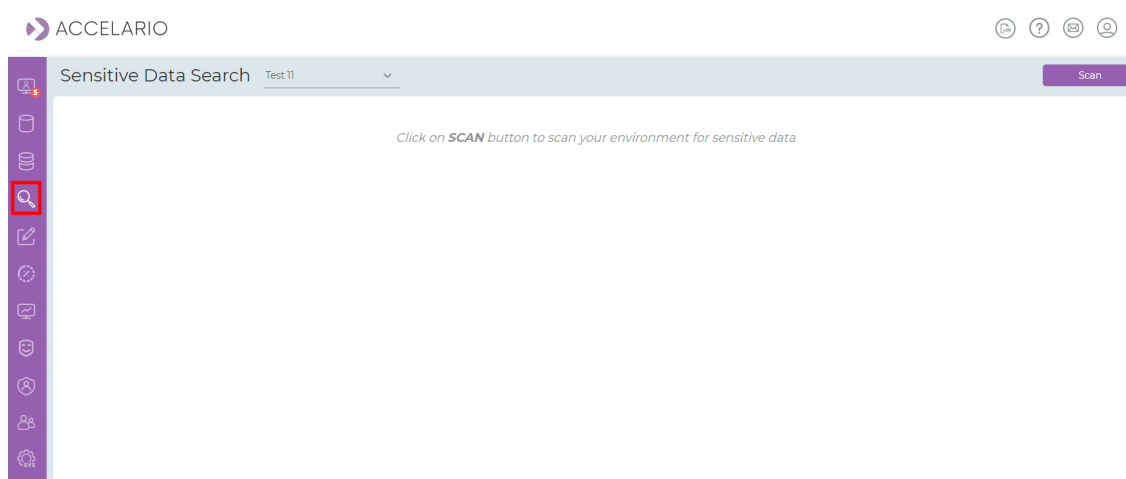
Once you have setup an environment, you can search the environment for sensitive data that you may want to mask.

You can also see results and perform new scans.

The following examples show PostgreSQL but are correct for all the databases.

To manage your sensitive data searches:

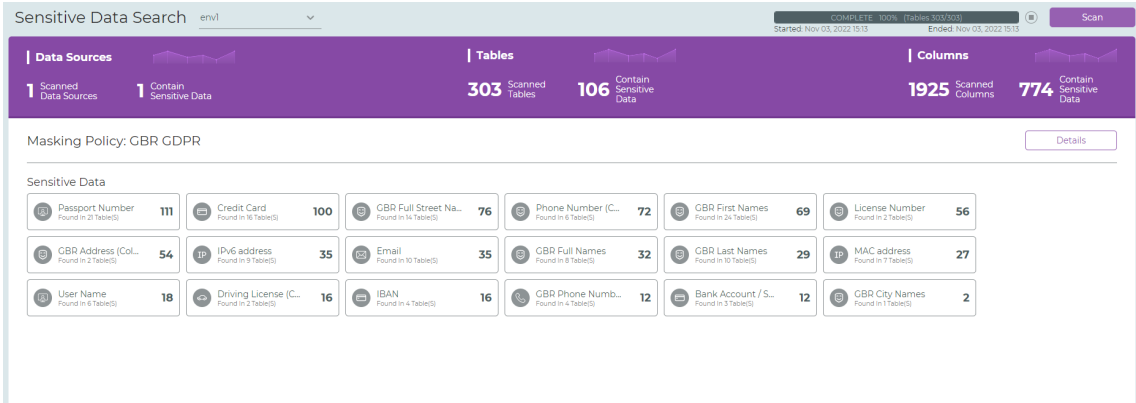
1. On the navigation bar, click  (Sensitive Search).



To do a new sensitive data search for a SQL database, see [Performing a Sensitive Data Search](#).

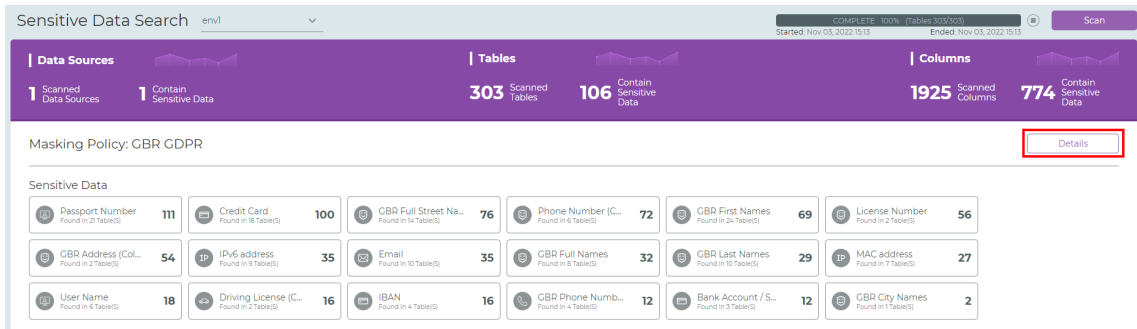
To do a new sensitive data search for a NoSQL database, see [Performing a Sensitive Data Search](#).

After the scan is complete, the scan summary appears.




To see detailed scan results:

1. Click **Details**.



2. In the detailed window you can:

- > Click  to expand details.
- > Select/clear check boxes to update the search result.
- > Click **Save to File** to share the results via file.
- > Click **Hide low probability results** to view only the columns that get Probability higher than the sensitive search threshold.
- > Click **Update Masking** to update the masking configuration with the new search results and to go to the Masking Editor (see [Masking Editor – Editing Masking Rules and Running Masking Operation](#)).


Example for SQL databases:








Masking Policy: GBR GDPR

Save To File

Update Masking

Hide low probability results

All  Q Quick Search

<input type="checkbox"/>	Data Source ¹	Schema ¹	Table ¹	Column ¹	Rule ¹	Probability ¹	FK Group ¹	
<input type="checkbox"/>	POSTGRES Demo	IND_TGR_PK_UQ_FK	ind_tgr_pk_uq_fk	fk	GBR Phone Number	3 %	IND_TGR_PK_UQ_FK_uq_fk_fk	
<div>Sample value: (020) 4674 2459 -> (020) 4642 3955 Data type: VARCHAR Foreign Key: Yes Parent: IND_TGR_PK_UQ_FK_uq_fk_fk FK Group: IND_TGR_PK_UQ_FK_uq_fk_fk</div>								
	POSTGRES Demo	MASTER_MASKING	usa_full_address	physicaladdress	GBR Address (Column)	100 %		
<input type="checkbox"/>	POSTGRES Demo	MASTER_MASKING	portuguese_fullnames	column1	GBR First Names	2 %		
<input checked="" type="checkbox"/>	POSTGRES Demo	MASTER_MASKING	spanish_fullnames	column2	GBR Full Names	100 %		
<input checked="" type="checkbox"/>	POSTGRES Demo	MASTER_MASKING	VEHICLE PLATE NUMBER	vehical_plate_no	License Number	100 %		
<input checked="" type="checkbox"/>	POSTGRES Demo	MASTER_MASKING	usa_passport_number	customerpassport	Passport Number (Column)	100 %		

Example for NoSQL databases:

Masking Policy: GBR GDPR

Save To FileUpdate Masking

AllQuick SearchHide low probability results

<input type="checkbox"/>	Data Source ¹	Database ¹	Collection ¹	Key ¹	Rule ¹	Probability ¹	
<input checked="" type="checkbox"/>	MongoDB Demo Endpoint	MASTER_MASKING	PHONE_NUMBER_COLUMN_	HOMEPHONE	Phone Number (Column)	100 %	^
<div>Sample value: (080)-4020-3797 -> (080)-4811-8750</div> <div>Data type: CHAR</div> <div>Foreign Key: No</div> <div>Parent: Null</div>							
<input type="checkbox"/>	MongoDB Demo Endpoint	MASTER_MASKING	50k_new	Italian First Names	GBR First Names	8 %	v
<input checked="" type="checkbox"/>	MongoDB Demo Endpoint	MASTER_DB	50k_new	GBR National Insurance No	GBR National Insurance No.	35 %	v
<input type="checkbox"/>	MongoDB Demo Endpoint	MASTER_MASKING	ITALIAN_FULL_NAMES	COLUMN2	GBR First Names	2 %	v
<input checked="" type="checkbox"/>	MongoDB Demo Endpoint	MASTER_MASKING	PHONE_NUMBER_COLUMN_num eric_	CELL_NBR	Phone Number (Column)	100 %	v
<input checked="" type="checkbox"/>	MongoDB Demo Endpoint	MASTER_MASKING	PHONE_NUMBER_COLUMN_num eric_	MOBILE_NBR	Phone Number (Column)	100 %	v
<input checked="" type="checkbox"/>	MongoDB Demo Endpoint	MASTER_MASKING	PHONE_NUMBER_COLUMN_num eric_	FAXNBR	Phone Number (Column)	100 %	v

10. Masking Editor – Editing Masking Rules and Running Masking Operation

Use the masking editor to apply masking rules to columns in tables that you specify. The following examples show PostgreSQL but are correct for all the databases.

1. On the navigation bar, click  (Masking Editor).



To select another/new masking rule for a SQL database, see [Data Masking and Progress Monitoring](#).

To select another/new masking rule for a NoSQL database, see [Data Masking and Progress Monitoring](#).

1. To assign a **Masking Rule** to each **Key Name** in the JSON/XML structure:

Select Masking Method

Quick Search

Sort by: Select...

Personal (28) Business (1) ESP (4) USA (18) ISR (9) IT (5) Basic (2) BRA (1) Tags: TUR (4) PRT (4) Car (1) DEU (4) FRA (4) ITA (4) Column (19) GBR (10) Bank (5) List (50) IND (5)

ID Israeli data regex

Spanish Last Nam... data lookup

GBR Postcode data regex

Medical Record N... column regex

Zip+4 Code data regex

Weight data regex

Spanish Full Names data full name

Health Insurance ... data regex

IPv4 address data regex

GBR Address (Col... column regex

Indian States data lookup

IP MAC address data regex

Turkish City Names data lookup

GBR National Insu... data regex

Brazilian City Nam... data lookup

GBR Full Names data full name

Phone Number (C... column regex

Italian City Names data lookup

Fix String Value column regex

Israeli Last Names data lookup

Israeli Phone No. data phone

Israeli Country Na... data lookup

GBR Last Names data lookup

Bitcoin Address data regex

Israeli Street Name data lookup

Any Value column regex

Email data regex

GBR City Names data lookup

Indian First Names data lookup

VIN data regex

Show all

Select

Cancel

JSON / XML

a. Click **JSON / XML**.

Select Masking Method

Select Type: JSON XML

#	Key Name	Masking Rule
1	Key_1	Select Masking Rule
+ Add Key		

Select

Cancel

JSON / XML

b. Enter the **Key Name**.

c. Click .

d. Select a **Masking Method**.

Select Masking Method

Select Type: ☒ JSON ☐ XML

#	Key Name	Masking Rule	
1	Name	Israeli First Names	<div><div>✕</div><div>🔄</div><div>🔍</div></div>
<div>+ Add Key</div>			

Select

Cancel

JSON / XML ☒


e. To add another key click **+ Add Key**.

2. Click **Select** to save the masking rule(s).

To remove a masking rule:

1. On the masking rule, click .

To remove a key:

1. On the key, click .

To see all the masking methods:

1. On the key, click **Show all** ☒.

To add a Where Clause:

1. Click **Add Where Clause**.

dev02 - table_0
Last Masked: never

Add Mailing Rule Add Where Clause

#	A-Z Tj	Column Name	A-Z Tj	Masking Rule	Parameters
1		column_1			⊖
2		column_2			⊖
3		column_3			⊖

2. Write the clause and click **VALIDATE CLAUSE**.

Add Where Clause ×

Environment: ENV 2

Table: TABLE1

Where Clause:

SALARY > 2000 AND NAME = «John»

VALIDATE CLAUSE

ADD

CANCEL

3. If the clause was validated, click **ADD**.

Add Where Clause

Environment: ENV 2

Table: TABLE1

Where Clause:

SALARY > 2000 AND NAME = «John»

VALIDATE CLAUSE

ADD

CANCEL

To add a Mailing Rule:

1. Click **Add Mailing Rule**.

dev02 - table_0

Last Masked: never

Add Mailing Rule

Add Where Clause

#	A - Z Tl	Column Name	A - Z Tl	Masking Rule	Parameters
1		column_1			⊞
2		column_2			⊞
3		column_3			⊞

The Add Mailing Rule window appears.

Add Mailing Rule

Q Quick Search

Sort by: Select...

Column Names

Us_State

Street

json1

Zip_Code

City

Available Rules

State

City

Address

Zip

☐ Keep State

The selection of State, City, Address and Zip is mandatory

Done

Cancel

2. Drag the column to the **Available Rules**.

Modify Mailing Rule

Q Quick Search

Sort by: Select...

Column Names

Uk_State

Available Rules

State

City

Address

Zip

☐ Keep State

The selection of State, City, Address and Zip is mandatory

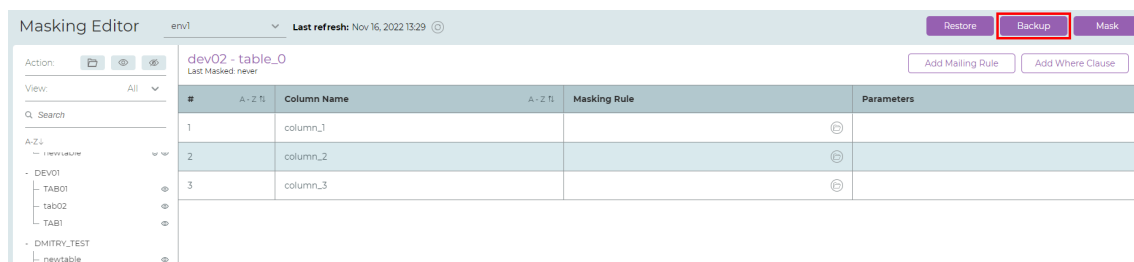
Done

Cancel

3. Select the ☒ **Keep State** check box to make sure that the state is not masked. and mask the other Available Rules.
4. Mask all the other available rules.
5. Click **Done**.

Restore and Backup:

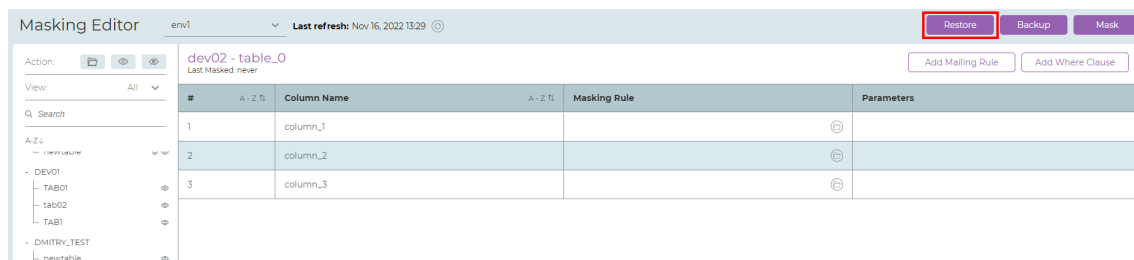
1. Click **Backup** to save the masking settings to a JSON file.



The screenshot shows the 'Masking Editor' interface. At the top right, there are three buttons: 'Restore', 'Backup' (highlighted with a red box), and 'Mask'. Below the table, there are two buttons: 'Add Mailing Rule' and 'Add Where Clause'.

#	A - Z Tl	Column Name	A - Z Tl	Masking Rule	Parameters
1		column_1			
2		column_2			
3		column_3			

2. Click **Restore** to load masking settings from a backed up JSON file.



The screenshot shows the 'Masking Editor' interface. At the top right, there are three buttons: 'Restore' (highlighted with a red box), 'Backup', and 'Mask'. Below the table, there are two buttons: 'Add Mailing Rule' and 'Add Where Clause'.

#	A - Z Tl	Column Name	A - Z Tl	Masking Rule	Parameters
1		column_1			
2		column_2			
3		column_3			

11. Job Monitoring


Job Monitoring is used to monitor the status of current system jobs. From the **Job Monitoring** window, you can:

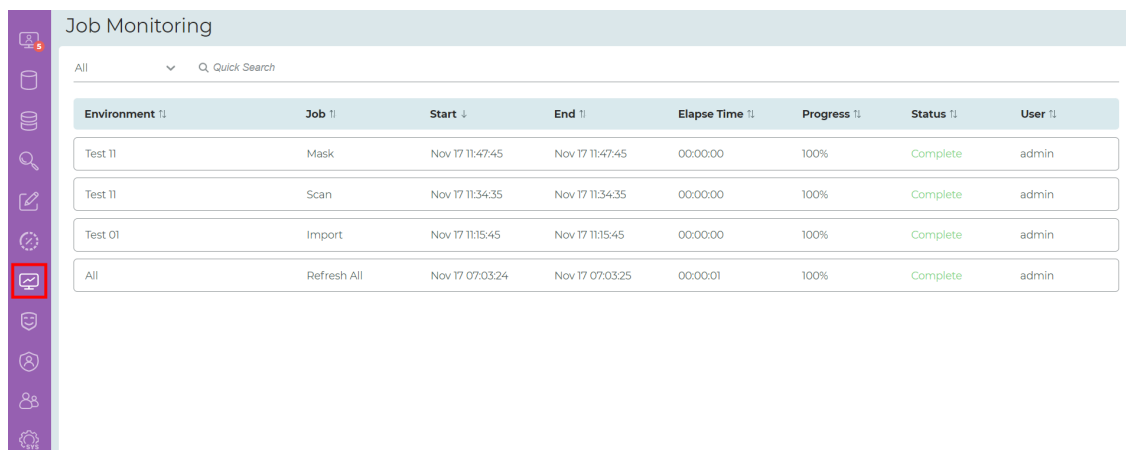
- > See system Jobs: Refresh, Refresh All, Scan, Scan All, and Mask.
- > Drill down and see the detailed status of some of the system jobs.



Only a user with **Admin** privileges can access **Job Monitoring**.

To open the Job Monitoring window:

1. On the navigation bar, click  (Job Monitoring).




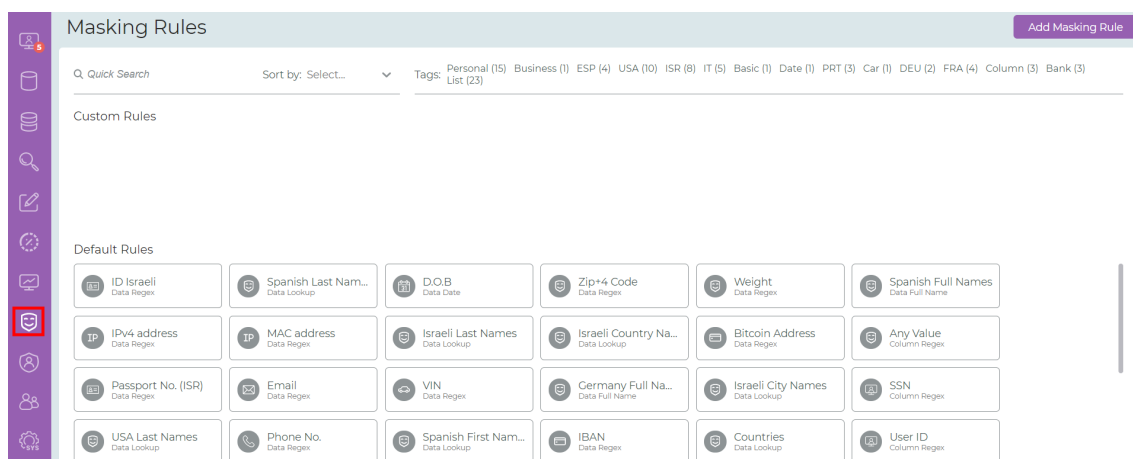
Environment	Job	Start	End	Elapse Time	Progress	Status	User
Test T1	Mask	Nov 17 11:47:45	Nov 17 11:47:45	00:00:00	100%	Complete	admin
Test T1	Scan	Nov 17 11:34:35	Nov 17 11:34:35	00:00:00	100%	Complete	admin
Test O1	Import	Nov 17 11:15:45	Nov 17 11:15:45	00:00:00	100%	Complete	admin
All	Refresh All	Nov 17 07:03:24	Nov 17 07:03:25	00:00:01	100%	Complete	admin

12. Managing Masking Rules

A **Masking Rule** contains both the scanning and masking methods used to search for and mask specific sensitive data (e.g. Name, Email, Credit Card, etc.).

To see current masking rules:

1. On the navigation bar, click  (Masking Rules).



To see information about the masking rule:

1. On the masking rule, click .

ID2	
Name:	ID2
Description:	—
Tags:	Column, Custom
Search Definition:	
Search type:	Custom Column Regex
Data Type:	CHAR, VARCHAR, VARCHAR2, NCHAR, NVARCHAR, NVARCHAR2
Minimum Column Size:	15
Search Column Regular Expression:	dfdf
Masking Definition:	
Masking Method:	Mask Any Value
Skip first symbols:	0
Skip last symbols:	0
Examples:	Custom Column Rule

To add a new custom masking rule:

1. Click **ADD MASKING RULE**.

Masking Rules

Add Masking Rule

Q Quick Search

Sort by: Select...

Tags: Personal (33) Business (1) ESP (4) USA (20) ISR (1) IT (5) Basic (3) Date (4) BRA (1) TUR (4) PRT (4) Car (1) DEU (4) FRA (4) ITA (4) Column (24) CBR (10) Bank (3) List (30) IND (5)

Custom Rules

2. Provide a name and description for the new rule and select the required **Tags**.

Add Masking Rule

×

* Name:

Description:

* Tags:

Select tags...

▼

Next

Cancel



In all dialog boxes, an asterisk * next to a label on the left is used to identify a mandatory user input.

3. Click **NEXT**.

Add Masking Rule

×

Search Definition:

* Search Type:

Select search type...

▼

Next

Back

Cancel

4. Select a **Search Type**:

- a. **Column - RegExp** to search the column name using a regular expression.
- b. **Data - RegExp** to search the column data using a regular expression.
- c. **Data - Lookup** to search the column data using a lookup table.

Add Masking Rule (Column - RegExp)

×

Search Definition:

* Search Type:

Column - RegExp

▼

* Data Types:

Select data types...

▼

Minimum Column Size:

15

* Regular Expressions:

Next

Back

Cancel

5. Select a **Data Types**:

- a. **CHAR**
- b. **DATE**
- c. **TIMESTAMP**
- d. **NUMERIC**

Add Masking Rule (Column - RegExp)

×

Search Definition:

* Search Type:

Column - RegExp

▼

* Data Types:

Select data types...

▼

Minimum Column Size:

CHAR

* Regular Expressions:

DATE

TIMESTAMP

NUMERIC

Next

Back

Cancel

6. Click **NEXT**.
7. To configure the masking rule parameters for a **Column - RegExp** search type:
 - a. For a **Search Definition**, provide the **Column Regular Expressions**.

Add Masking Rule (Column - RegExp)

×

Search Definition:

* Search Type:

Column - RegExp

* Data Types:

Select data types...

Minimum Column Size:

15

* Regular Expressions:

Next

Back

Cancel

- b. Click **NEXT**.
- c. For a **Masking Definition**, if necessary provide the number of a characters to skip at the start or end.

Add Masking Rule (Column - RegExp)

×

Masking Definition:

* Masking Method:

Mask Any Value

Don't mask first # of characters:

0

Don't mask last # of characters:

0

Masking Example:

<string>

 →

<string>

Add

Back

Cancel

- d. Click **ADD**.

The new masking rule appears.

8. To configure the masking rule parameters for a **Data - RegExp** Search Type:

a. For a **Search Definition**, provide the **Data Regular Expressions**.

Add Masking Rule (Data - RegExp)

×

Search Definition:

* Search Type: Data - RegExp

* Data Types: CHAR

Minimum Column Size: 15

* Regular Expressions:

NextBackCancel

b. Click **NEXT**.

c. For a **Masking Definition**, if necessary provide the number of a characters to skip at the start or end.

Add Masking Rule (Data - RegExp)

×

Masking Definition:

* Masking Method: Mask Any Value

Don't mask first # of characters: 0

Don't mask last # of characters: 0

Masking Example: <string> → <string>

AddBackCancel

d. Click **ADD**.

The new masking rule appears.

9. To configure the masking rule parameters for a **Data - Lookup** Search Type:

a. For a **Search Definition**, browse to the location for the **Masking Lookup List** and click **Open**.

Add Masking Rule (Data - Lookup) [X]

Search Definition:

* Search Type: Data - Lookup [v]

* Search Lookup File: [File Icon]

Next Back Cancel

b. After the file is loaded, click **Next**.

Add Masking Rule (Data - Lookup) [X]

Search Definition:

* Search Type: Data - Lookup [v]

* Search Lookup File: Masking Data Lookup List.docx [File Icon]

Next Back Cancel

c. For a **Masking Definition**, if necessary provide the number of a characters to skip at the start or end.

Add Masking Rule (Data - Lookup) [X]

Masking Definition:

☒ Use same lookup file for search and masking

* Masking Method: Mask Any Value [v]

Don't mask first # of characters: 0

Don't mask last # of characters: 0

Masking Example: <string> → <string>

Add Back Cancel

d. Click **ADD**.

The new masking rule appears.

To see information about a custom masking rule:

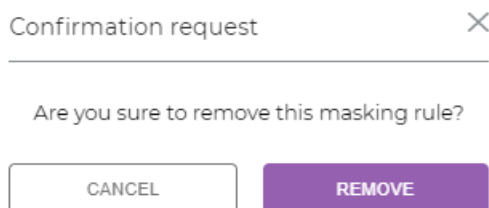
Custom Rules




1. On the masking rule, click .

To delete a custom masking rule:

1. On the masking rule, click .
2. Click **REMOVE** to confirm the deletion, or **CANCEL** to exit without deleting the masking rule.



To modify a custom masking rule:

1. On the masking rule, click .
2. The **Modify Masking Rule** window appears. Modify the custom masking rule details as required.

Modify Masking Rule (Column - RegExp) ✕

* Name:

NewRule

Description:

* Tags:

Personal ✕ ▼

* Search Type:


Column - RegExp ▼

Next

Cancel

3. To save your changes, click **Modify**. Otherwise, click **Cancel**.

To duplicate a masking rule:

1. On the masking rule, click .
2. Provide a name.

Duplicate Masking Rule (Column - RegExp) ✕

* Name:

DUPLICATE Rule2

Description:

* Tags:

Business ✕ ▼

Next

Cancel

3. Click **NEXT**.
4. Provide **Data Regular Expression(s)**.

Duplicate Masking Rule (Column - RegExp)

×

Search Definition:

* Search Type:

Column - RegExp

Minimum Column Size:

15

* Regular Expressions:

1

Next

Back

Cancel



You can also modify the **Minimum Column Size**.

5. Click **NEXT**.

Duplicate Masking Rule (Column - RegExp)

×

Masking Definition:

* Masking Method:

Mask Any Value

Don't mask first # of characters:

0

Don't mask last # of characters:

0

Masking Example:

<string>

 →

<string>

Duplicate

Back

Cancel

6. Click **Duplicate**.

13. Managing Privacy Policies

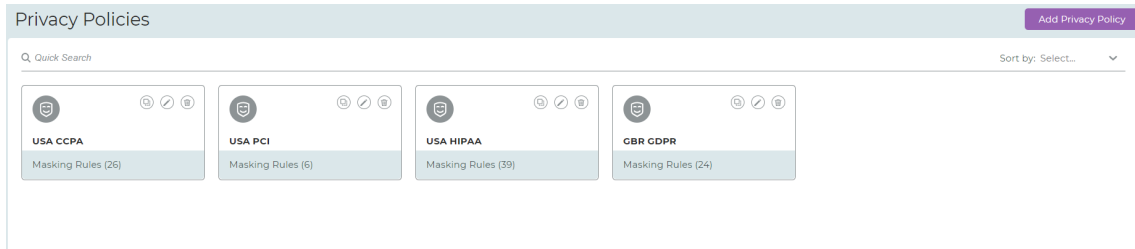
A **Privacy Policy** is a set of masking rules used to scan and mask following a specified privacy regulation such as GDPR, CCPA and HIPAA or to the organization privacy rules. This section describes how to define and manage the privacy policies.

To view available privacy policies:

1. On the navigation bar, click  (Privacy Policies).



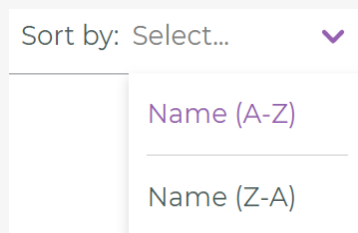
2. The **Privacy Policies** window appears displaying all privacy policies that have been added to the system.



You can quickly locate content by typing its letters on the **Quick Search** bar. The list updates promptly.

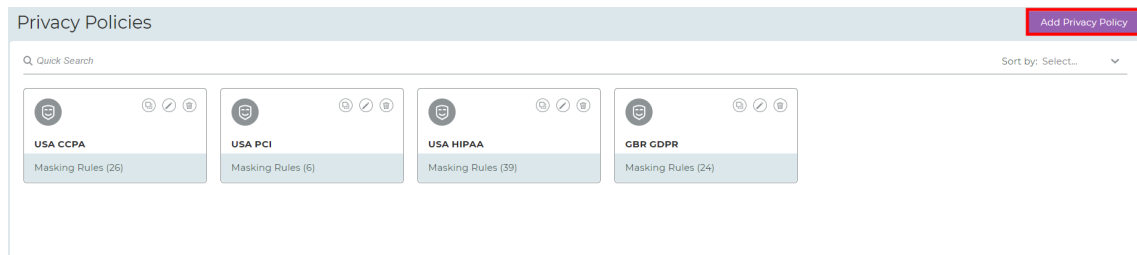


You can display the list in ascending or descending alphabetical order.



To add a new privacy policy:

1. Click **Add Privacy Policy**.



2. Fill in the policy details:

- a. In **Name**, provide a name.
- b. Under **Available Rules**, select a rule or a number of rules.

A screenshot of the 'Add Privacy Policy' form. The form has a title bar with a close button. It includes fields for '* Name:' and 'Description:'. Below these are search and sort controls. A 'Tags' section lists various categories with counts. The main part of the form is divided into 'Available Rules' and 'Selected Rules' columns. The 'Available Rules' column contains 15 rules, each with an icon and a description. The 'Selected Rules' column is currently empty. At the bottom, there are 'Add' and 'Cancel' buttons.



















3. Click  to add the rule to the **Selected Rules** list.

Add Privacy Policy ✕



* Name: Description:



Q Quick Search Sort by: Select... ▼ Tags: Personal (33) Business (2) ESP (3) USA (20) ISR (10) IT (5) Basic (3) Date (4) BRA (1) TUR (4) PRT (4) Car (1) DEU (4) FRA (4) ITA (4) Column (24) GBR (10) Bank (5) List (50) IND (5)

Available Rules:

 D.O.B. Column Regex	 GBR Postcode Data Regex	 Medical Record N... Column Regex
 Zip+4 Code Data Regex	 Weight Data Regex	 Spanish Full Names Data Full Name
 Health Insurance ... Data Regex	 IPv4 address Data Regex	 GBR Address (Col... Column Regex
 Indian States Data Lookup	 IP MAC address Data Regex	 Turkish City Names Data Lookup
 GBR National Insu... Data Regex	 Brazilian City Nam... Data Lookup	 GBR Full Names Data Full Name
 Phone Number (C... Data Regex	 Italian City Names Data Lookup	 Fix String Value Data Regex




Selected Rules:

 ID Israeli Data Regex	 Spanish Last Nam... Data Lookup
---	---

 Add  Cancel

4. Click **Add**.



- > To add all the available rules, click .
- > To remove all the available rules, click .
- > To remove one available rule, select the rule, and click .

To add a masking rule according to a Tag:

1. Click a Tag (in this example **Bank**).

* Name: Description:

Q Quick Search Sort by: Select... ▼ Tags: Personal (15) Business (1) ESP (4) USA (10) ISR (8) IT (5) Basic (1) Date (1) Custom (3) PRT (3) Car (1) DEU (2) FRA (4) Column (4) **Bank (3)** List (23)

2. All the masking rules that contain the tag selected are shown in the **Available Rules** list.

Add Privacy Policy ×

* Name: Description:

Q Quick Search Sort by: Select... ▼ Tags: Personal (15) Business (1) ESP (4) USA (10) ISR (8) IT (5) Basic (1) Date (1) Custom (3) PRT (3)
Car (1) DEU (2) FRA (4) Column (4) Bank (3) List (23)

Available Rules:

IBAN
Data Regex

SWIFT
Data Regex

Credit Card
Data Regex

Selected Rules:

>>>
>
<
<<<

Add Cancel

3. Select a rule.

4. Click  to add the rule to the **Selected Rules** list.

Add Privacy Policy ×

* Name: Description:

Q Quick Search Sort by: Select... ▼ Tags: Personal (15) Business (1) ESP (4) USA (10) ISR (8) IT (5) Basic (1) Date (1) Custom (3) PRT (3)
Car (1) DEU (2) FRA (4) Column (4) Bank (3) List (23)

Available Rules:

IBAN
Data Regex

SWIFT
Data Regex

Credit Card
Data Regex




Selected Rules:

>>>
>
<
<<<

Add Cancel

5. Click **Add**.



- > To add all the available rules, click .
- > To remove all the available rules, click .
- > To remove one available rule, select the rule, and click .

1. To remove a Tag from the masking rules in the **Available Rules** list, click on the tag again, (in this example **Bank**).

* Name:	<input type="text" value="Special Tag List"/>	Description:	<input type="text"/>
Q Quick Search	Sort by: Select... ▼	Tags: Personal (15) Business (1) ESP (4) USA (10) ISR (8) IT (5) Basic (1) Date (1) Custom (3) PRT (3) Car (1) DEU (2) FRA (4) Column (4) Bank (3) List (23)	

14. Managing Users and Roles



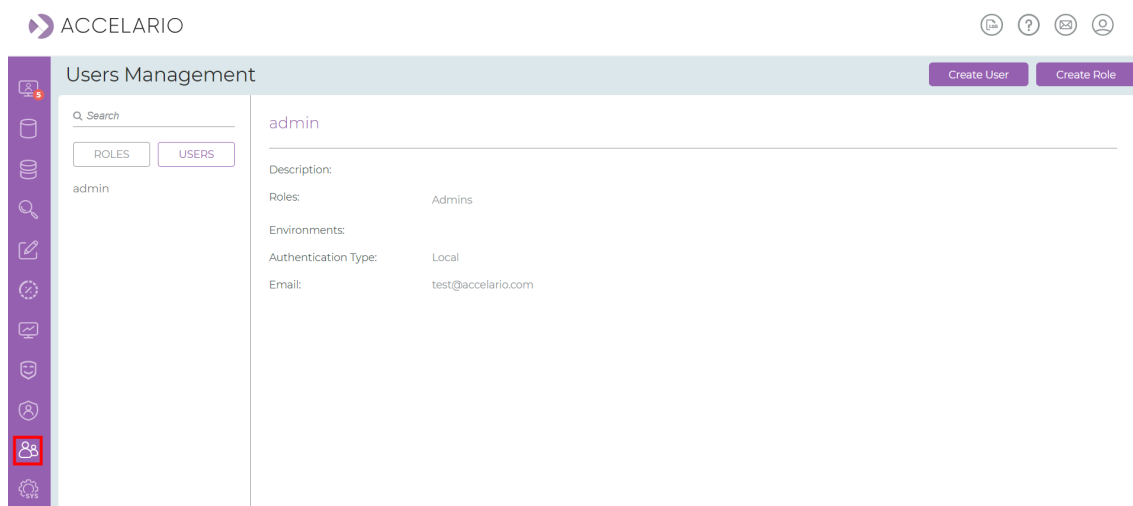
Only a user with **Admin** privileges can create or modify users and roles.



A default user **admin** with the role **Admins** exists when the system is first installed.

To manage users:

1. On the navigation bar, click  (Users Management).



You can quickly locate a user by typing its letters on the **Search** bar. The list updates promptly.

 Search



You can display the list based on **ROLES** or **USERS**.

Q Search

ROLES

USERS

To create a new role:

1. Click **Create Role**.

Users Management

Create User

Create Role

Q Search

ROLES

USERS

admin

admin

Description:

Roles:

Admins

Environments:

Authentication Type:

Local

Email:

test@accelario.com

2. Fill in the details:

Create Role

✕

* Role Name:

Description:

* Select Authorized Environments:

☐ env2

☐ env3

☐ env1

Select Authorized Users:

Create

Cancel



In all dialog boxes, an asterisk * next to a label on the left is used to identify a mandatory user input.

3. Click **Create**.

To edit role details:

1. On the required role, click  (**Modify**).

Q Search


ROLES

USERS

Admins

QA

Modify



- The **Modify Role** window appears. Modify the role details as required.

Modify Role

✕

* Role Name:

QA

Description:

* Select Authorized Environments:

☐ env2

☐ env3

☒ env1


Select Authorized Users:

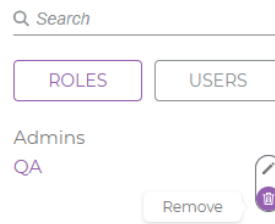
Modify

Cancel

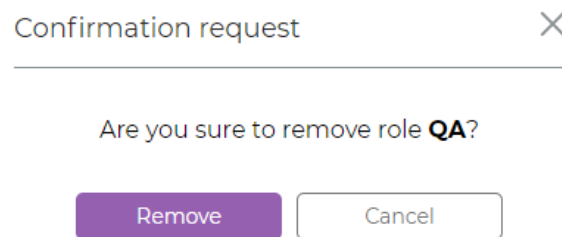
- To save your changes, click **Modify**. Otherwise, click **Cancel**.

To delete a role:

1. On the required role, click  (Remove).

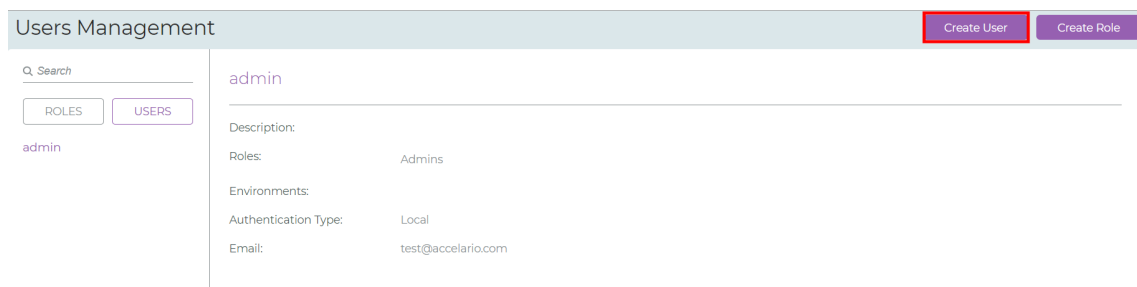


2. Click **Remove** to confirm the deletion, or **Cancel** to exit without deleting the role.



To add a new user:

1. Click **Create User**.



2. Fill in the details:

Create User

✕

* User Name:

Description:

* Select Roles:

☐ QA

☐ Admin

* Authentication Type:

☒ Local

☐ Active Directory

* Password:

* Confirm Password:

* Email:

Create

Cancel



In all dialog boxes, an asterisk * next to a label on the left is used to identify a mandatory user input.

3. Click **Create**.

To edit user details:

1. On the required role, click  (Modify).

Q Search


ROLES

USERS

admin

userA

Modify



2. The **Modify User** window appears. Modify the user details as required.

Modify User

✕

* User Name:

userA

Description:

* Select Roles:

☒ QA

☐ Admin

* Authentication Type:

☒ Local

☐ Active Directory

* Password:

* Confirm Password:

* Email:

userA@gmail.com

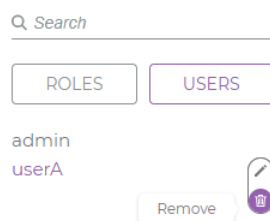
Modify

Cancel

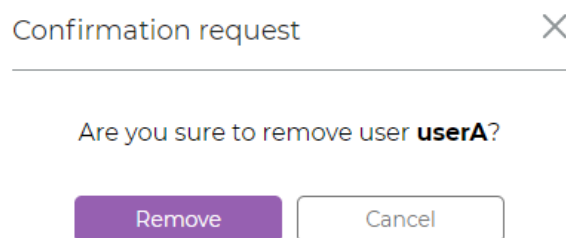
3. To save your changes, click **Modify**. Otherwise, click **Cancel**.

To delete a user:

1. On the required role, click  (Remove).



2. Click **Remove** to confirm the deletion, or **Cancel** to exit without deleting the role.



15. System Setup

The **System Setup** is used to define different system setups. In this version it is used to setup the Active Directory, SMTP parameters, and to load new masking rules.



Only a user with **Admin** privileges can access the **System Setup**.

To setup the active directory:

1. Click **Users**.
2. Fill in the details to setup the Active Directory.

System Setup

Users

SMTP

Masking Rules

SDS

ACTIVE DIRECTORY SETTING

☐ Use Active Directory Authentication

* Server Name/IP:
smtp.<my company>.com

* Port:
0

* AD Domain Name:

* Authentication Type:
Simple


* Bind Username:

* Bind Password:

Test AD

Save

3. Click **Test AD** to verify that the active directory settings are correct.
4. Click **Save**.

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To setup the SMTP server:

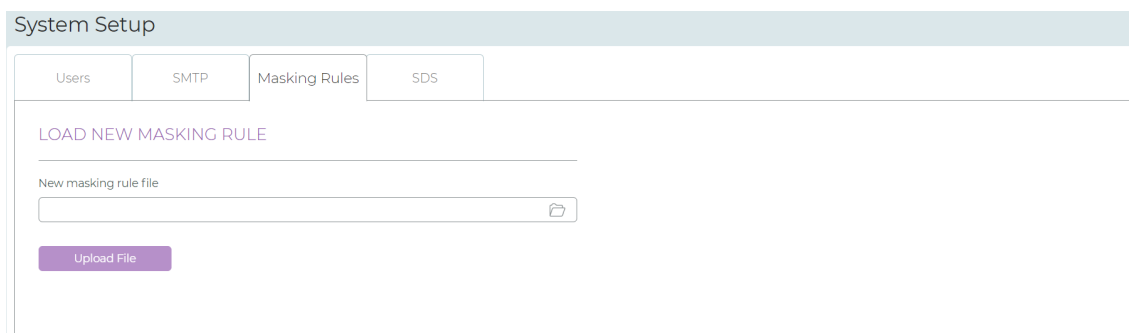
1. Click **SMTP**.
2. Fill in the details to setup the SMTP server.

The screenshot shows the 'System Setup' interface with the 'SMTP' tab selected. The 'SMTP SERVER' section on the left contains the following fields: 'Activate SMTP' (unchecked checkbox), 'Server Name/IP' (text field with 'smtp-<my company>.com'), 'Bind Username' (text field), 'Bind Password' (text field), 'Port' (text field with '0' and an unchecked 'Use SSL' checkbox), and 'From Email' (text field with 'Accelerario@<my company>.com'). At the bottom of this section are 'Test Email' and 'Save' buttons. The 'EMAIL NOTIFICATION' section on the right includes 'Email Recipients' (text field with 'User1@<my company>.com, User2 @<my company>.com') and 'Filters' (checkboxes for 'Error', 'Warning', and 'Info').


3. Click **Test Email** to verify that the SMTP server settings are correct.
4. Click **Save**.

To install new built-in masking rules online:

1. Click **Masking Rules**.



The screenshot shows the 'System Setup' interface with the 'Masking Rules' tab selected. The page title is 'LOAD NEW MASKING RULE'. Below the title is a text input field labeled 'New masking rule file' with a folder icon on the right. Below the input field is a purple button labeled 'Upload File'.

2. Click  .
3. Select file.
4. Click **Upload File** .

To modify the sensitive search threshold:

1. Click **SDS**.




The screenshot shows the 'System Setup' interface with the 'SDS' tab selected. The page title is 'SENSITIVE DATA SEARCH'. Below the title is a text input field labeled '* Sensitive Search Threshold:' with the value '20%' entered. Below the input field is a purple button labeled 'Save'.

2. Enter the new threshold.
3. Click **Save**.

16. Event Viewer

The Event Viewer is used to see, filter, and search user events. In the Event Viewer you can drill down and see details for events. You can: also save all user events to a file. This section describes how to do these tasks.

To open the Event Viewer work area:

1. On the navigation bar, click  (Event Viewer).

Event Viewer								
All			Predefined Range: Last 24 hours		Custom Range: From: To:		Download Events	
Date	Message	Severity	Component	Actions	Object	User	Status	
Nov 3, 2022 07:04	Data Source 'POSTGRES Demo' was successfully added	Info	Data Sources	Add Data Source	POSTGRES Demo	admin / Admins	Complete	
Nov 3, 2022 07:04	All data sources refreshing started	Info	Privacy Dashboard	Refresh All	N/A	admin / Admins	Running	
Nov 3, 2022 07:04	All data sources were successfully refreshed	Info	Privacy Dashboard	Refresh All	N/A	admin / Admins	Complete	
Nov 3, 2022 14:09	Importing Environment 'env1' was started	Info	Environments	Import	env1	admin / Admins	Running	
Nov 3, 2022 14:09	Environment 'env1' was successfully created	Info	Environments	Add Environment	env1	admin / Admins	Complete	
Nov 3, 2022 14:09	Environment 'env1' was successfully imported	Info	Environments	Import	env1	admin / Admins	Complete	
Nov 3, 2022 15:01	Refreshing Environment 'env1' was started	Info	Environments	Refresh	env1	admin / Admins	Running	
Nov 3, 2022 15:01	Environment 'env1' was successfully refreshed	Info	Environments	Refresh	env1	admin / Admins	Complete	
Nov 3, 2022 15:01	Environment 'env1' scanning was started	Info	Environments	Scan	env1	admin / Admins	Running	
Nov 3, 2022 15:01	Environment 'env1' was successfully scanned	Info	Environments	Scan	env1	admin / Admins	Complete	
Nov 3, 2022 15:01	Refreshing Environment 'env1' was started	Info	Environments	Refresh	env1	admin / Admins	Running	
Nov 3, 2022 15:01	Environment 'env1' was successfully refreshed	Info	Environments	Refresh	env1	admin / Admins	Complete	
Nov 3, 2022 15:01	Refreshing Environment 'env1' was started	Info	Environments	Refresh	env1	admin / Admins	Running	
Nov 3, 2022 15:01	Environment 'env1' was successfully refreshed	Info	Environments	Refresh	env1	admin / Admins	Complete	
Nov 3, 2022 15:02	Refreshing Environment 'env1' was started	Info	Environments	Refresh	env1	admin / Admins	Running	

To quick search events with a keyword:

1. Type a keyword in the  Quick Search bar.

To filter events for a specified time period:



1. Select:

a. **Predefined Range.**

☒ Predefined Range: Last 24 hours ▼

or

b. Enter a **Custom Range.**

☒ Custom Range: Nov 7, 2022 18:35  Nov 10, 2022 18:35 

To sort events:

1. Select:

a. A column heading.

b. Select the sort order .

Date	Message	Severity	Component	Actions	Object	User	Status
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To download events to a file:

1. Click [Download Events](#).