

# Azure AD Synchronization

Starting from version 4.8, LUCY allows to import recipients from Azure AD and provides a possibility to automatically synchronize a recipient group with your Active Directory. Active Directory settings can be found under **Settings > Azure AD Settings**.

The screenshot shows the 'Azure AD Settings' page. At the top, there is a breadcrumb 'Home / Azure AD Settings'. Below it are four buttons: 'Users Control List', 'Recipients Control List', 'Azure AD Update Preferences', and 'Import Users From Azure AD'. The main section is titled 'Azure AD Settings'. It features a toggle switch for 'Enabled' which is checked. Below this are three input fields: 'Client ID' with the value '83764' and '5ed5b', 'Client Secret' with a masked value '\*\*\*\*\*', and 'Tenant ID' with the value '3bb' and '9c2517'. A 'Save' button is located below the input fields. At the bottom of the page, there is a placeholder text 'Your copyright goes here'.

Please refer to this wiki article to establish the connection to Azure AD:

[Configuration of OAuth 2.0 for Microsoft Azure](#)

Make sure to configure an additional URI for import feature in the Azure application settings:

```
https://<lucydomain>:<port>/oauth
```

<lucydomain> - your Lucy's system domain, for example access.cloudserver.com

<port> - custom port (in case one's configured), for example 8443.

If the default port is being used, there's no need to specify it in the URI.

As soon as the connection has been configured to Azure AD, you may be able to import recipients and users directly from your directory service.

## Azure AD Update Preferences

This menu allows configuring automatic synchronization of Azure AD recipients and users that were imported into LUCY. Automatic synchronization happens every 10 minutes.

Home / Azure AD Settings

Users Control List Recipients Control List **Azure AD Update Preferences** Import Users From Azure AD

## Azure AD Settings

☒ Enabled

Client ID 83764 5ed5b

Client Secret .....

Tenant ID 3bb 9c2517

Save

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Azure AD update preferences contain 2 options for automatic action. It is possible to configure LUCY to add users and recipients automatically or to wait for the Administrator's decision.

Home / Azure AD Settings / Azure AD Preferences

## Azure AD Update Preferences

☒ Autoupdate Azure AD recipients

Action for new recipients

Action for deleted recipients

Automatically Add  
Waiting for administrator's decision  
Automatically Add

☐ Autoupdate Azure AD users

Save

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In case if you select "Waiting for administrator's decision", an Administrator will have to go to a control list and decide whether it is necessary to delete\add a recipient\user or not.

Home / Azure AD Settings

Users Control List **Recipients Control List** Azure AD Update Preferences Import Users From Azure AD

## Azure AD Settings

☒ Enabled

Client ID 83764 5ed5b

Client Secret .....

Tenant ID 3bb 9c2517

Save

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In Azure AD update preferences it can be determined the behavior for deleted recipients:

- Automatically Delete Inactive
- Never Delete Recipients
- Waiting for Administrator's decision

Home / Azure AD Settings / Azure AD Preferences

## Azure AD Update Preferences

☒ Autoupdate Azure AD recipients

**Action for new recipients** Automatically Add

**Action for deleted recipients** Automatically Delete Inactive

- Automatically Delete Inactive
- Waiting for administrator's decision
- Automatically Delete Inactive**
- Never delete recipients

**Save**

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It is also possible to customize the pattern of automatic import of users from AD. Lucy will scan Azure AD and automatically bind a role to an imported user according to the set filters.

Home / Azure AD Settings / Azure AD Preferences

## Azure AD Update Preferences

☐ Autoupdate Azure AD recipients

☒ Autoupdate Azure AD users

Action for new users 

Automatically Add

Action for deleted users 

Automatically Delete Inactive

☐ Import Administrator role users from AD group

☐ Import View role users from AD group

☐ Import Supervisor role users from AD group

☐ Import User role users from AD group

☐ Import Enduser role users from AD group

Save

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## Importing recipients in a group for a campaign

When you create a new recipient group you will be able to use the previously configured Azure AD connection to query and import all the users/groups:

Home / Recipients / Azure Import / Import

## Azure Import

Recipients

Edit Group

Import

Scan

Import Settings

Import From

Azure AD

File

LDAP Server

Azure AD

☐ Add recipients to bound campaigns.

☐ Send emails if bound campaigns are running.

☐ Add more groups

Filter

☐ Name

☐ Email

☐ Phone

Search

LUCY will automatically match the user's attributes in the active directory with the available recipient attributes in LUCY.

If "Update existing recipients" option is enabled, recipient attributes will update during Azure AD import if these recipients have been imported before.

## Autoupdate Azure AD Recipients

It is possible to configure LUCY to autoupdate recipient list from Active Directory.

Home / Recipients / Azure Import

### Azure Import

Recipients  
Edit Group  
Import  
Scan  
Import Settings

Import Type: Azure AD

☒ Autoupdate Azure AD Recipients

Azure Filters: department eq 'QA' QA

+Add Save

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You may use regular Active Directory search filters.

For detailed information about the filtering of the Azure AD please refer to [Microsoft Documentation](#).

## Azure Filter Search Examples

### Scenario 1.

There is a need to import only the recipients who have the email domain ending with a specific set of characters. For example, @lucysecurity.company would require the following search query:

```
endswith(mail, '@lucysecurity.company')
```

Filter

endswith(mail,'@lucysecurity.company')



 Search

 Reset

<input type="checkbox"/>	Name	Email	Phone	Location
<input type="checkbox"/>	Azure Test	azuretest@lucysecurity.company	7893106003	Test Office
<input type="checkbox"/>	Test User2	testuser2@lucysecurity.company	1234567890	Ext1

### Scenario 2.

Importing recipients with a name that starts with "User" would require the following search query:

```
startswith(displayName, 'User')
```

Filter	startsWith(displayName,'user')	?	Search	Reset
<input type="checkbox"/>	Name	Email	Phone	Location
<input type="checkbox"/>	User	gagarin3@phishing.services		

**Scenario 3.**

Filter value to get all users with a location 'Ext1':

```
officeLocation eq 'Ext1'
```

Filter	officeLocation eq 'Ext1'	?	Search	Reset
<input type="checkbox"/>	Name	Email	Phone	Location
<input type="checkbox"/>	Test User2	testuser2@lucysecurity.company	1234567890	Ext1
<input type="checkbox"/>	Test User23		1234567890	Ext1
<input type="checkbox"/>	Test User51		1234567890	Ext1

**Scenario 4.**

If phone number of the recipient is not equal to '911' then the following query is being used:

```
mobilePhone ne '911'
```

Add more groups

Filter

mobilePhone ne '911'

?

Q Search

Reset

Name

Email

Phone

Location

Test User66

8123456789

Ext2

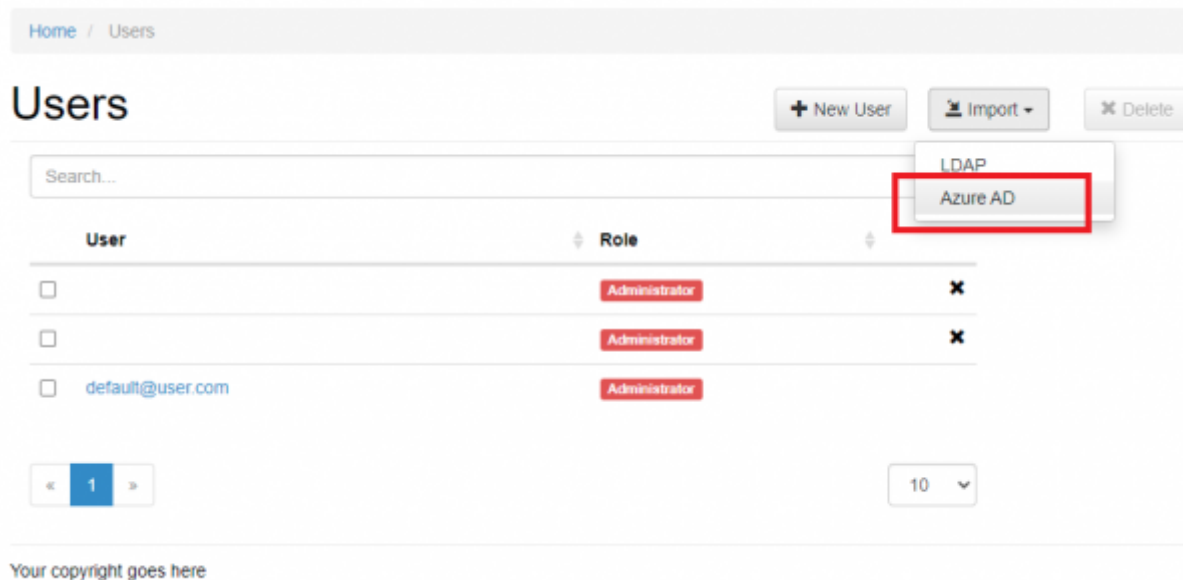
Test User18

5123456789

HQ2

## Importing Users from Azure AD

If you want to import users who can access LUCY using their AD account, you can go into the user settings menu (Settings > Administrative Users) and choose (Import > Azure AD):



The same user import menu can also be accessed via (Settings > Azure AD Settings > Import Users From Azure AD).

This way 5 types of Users can be imported:

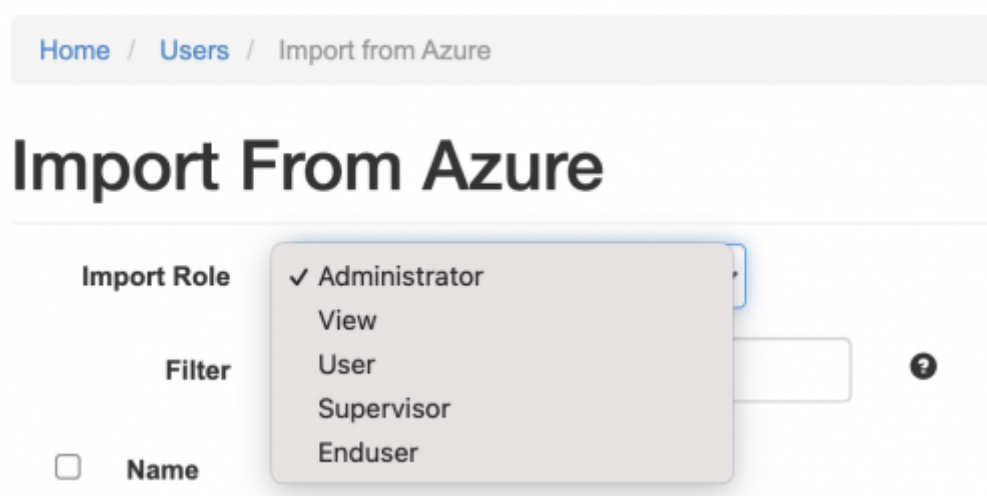
The users for the admin portal of LUCY web interface:

- **Administrators**
- **View** users
- **Users**
- **Supervisors**

And also the members for the End-User Portal:

- **Endusers**

[End User e-learning portal](#)



For more information regarding different user roles please refer to the article [User Management](#)

## Which AD fields can be used?

LUCY will automatically match the user's attributes in the Azure active directory with the available recipient attributes in LUCY. The default mapping between Lucy and Azure is presented below:

LUCY	Azure	Description	Applying For
E-mail	mail	Recipient's e-mail address	User & Recipient Import
Phone	mobilePhone	Recipient's phone number	User & Recipient Import
Full Name	displayName	Recipient's full name	User & Recipient Import
Staff Type	jobTitle	Recipient's staff status	Recipient Import
Location	officeLocation	Recipient's location	Recipient Import
Division	department	Recipient's working department	Recipient Import
Language	preferredLanguage	Recipient's language	Recipient Import
Lastname	surname	Recipient's second name	Recipient Import
Firstname	givenName	Recipient's first name	Recipient Import

From:

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Last update: **2021/12/16 13:35**

