



CONTACTSYNC® v8.5

Upgrade Instructions

NETsec

24. Juni 2025

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contactSync version 8.5

As of version 8.5, contactSync supports **Microsoft Graph** to access mailboxes in Exchange Online.

contactSync requires **.NET Framework 4.8**, **Windows PowerShell 5.1** and the **ExchangeOnlineManagement PowerShell module version 3.6 or later** for **Exchange Online PowerShell V3**.

As of version 8.4, for all contactSync policy types it is possible to select the mailboxes in both on-premises and Exchange Online in a hybrid Exchange environment on the mailbox tab. Provided that the Exchange Online mailboxes have not been selected by Recipient Type in existing policies.

contactSync synchronizes contacts directly from a public folder to user mailboxes in your Exchange environment, whether it is in Exchange on-premises or Exchange Online. In Hybrid Exchange environments contactSync can access public folders and mailboxes in both locations.

As of version 8.3, contactSync can now also synchronize contacts from a Shared Mailbox into users' mailboxes located in the same Exchange environment.

As of contactSync version 8.1, the certificate-based authentication method to establish a connection to Exchange Online is available in the Environment Configuration. Exchange Online connections using the certificate-based authentication method, Azure AD App Permissions of a registered application are used for access.

contactSync also synchronize contacts from a modern Public Folder into users' mailboxes located in the same Exchange environment.

contactSync also synchronize the Global Address List (GAL) into users' mailboxes located in the same environment.

As of contactSync version 8.0, the **Environment Configuration** describes the Exchange environment and its settings by which contactSync connects to Exchange, which eliminates the requirement to configure authentication separately for each policy. Instead, contactSync now uses the credentials assigned to each configured environment.

Download

Download the most recent version from our website:

<https://www.netsec.de/en/products/contactsync/download.html>

** Microsoft stopped supporting Exchange 2013 on the 11th April 2023.
As much as we would like to keep up compatibility for all versions, we cannot support an environment, which is no longer supported by the manufacturer.*

Upgrade Instructions

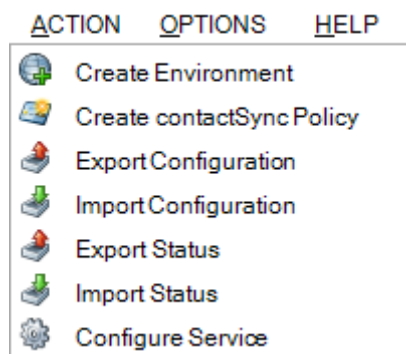
For updates from contactSync version 8.x to contactSync version 8.x

To install a new contactSync version, perform a backup of your contactSync data and install the new version.

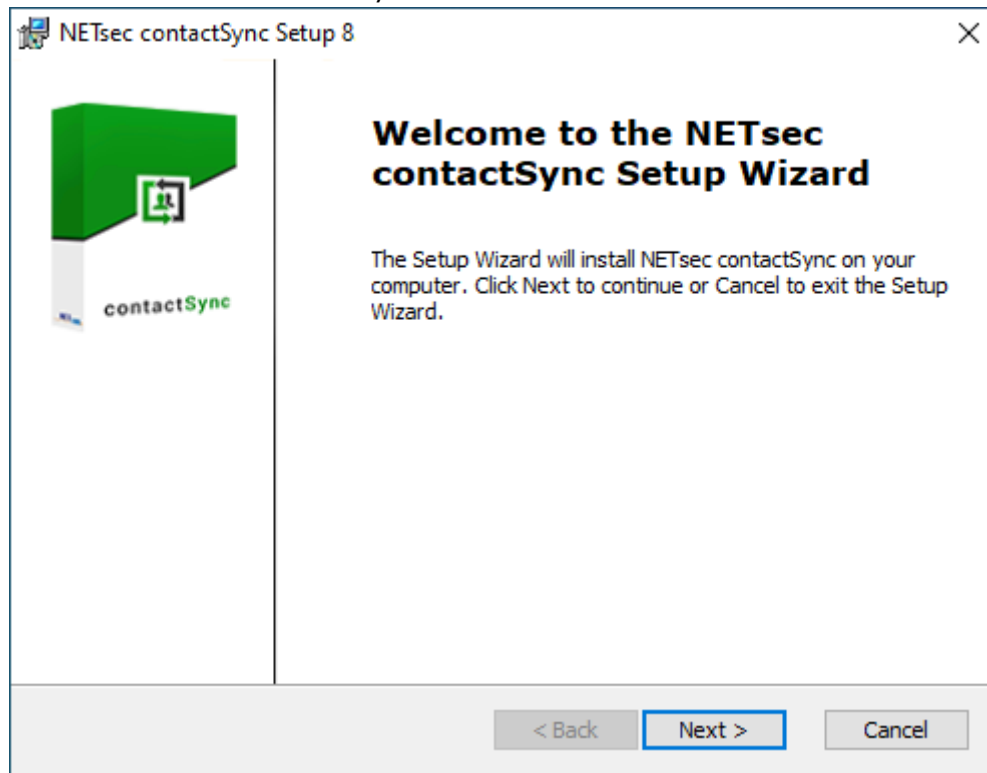
1. Backup (or copy) your contactSync program folder and the **common application data** folder.

Select **Action** -> **Export Configuration** to zip your Environment Configuration and Policy configuration.

Select **Action** -> **Export Status** to zip your log files.



2. Install the new contactSync version.



Important: Depending on the version gap, it may be necessary to reconfigure some options in your policies.

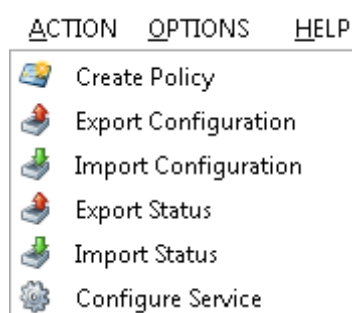
For updates from contactSync version 7.x to contactSync version 8.x

To install a new contactSync version, perform a backup of your contactSync data and install the new version.

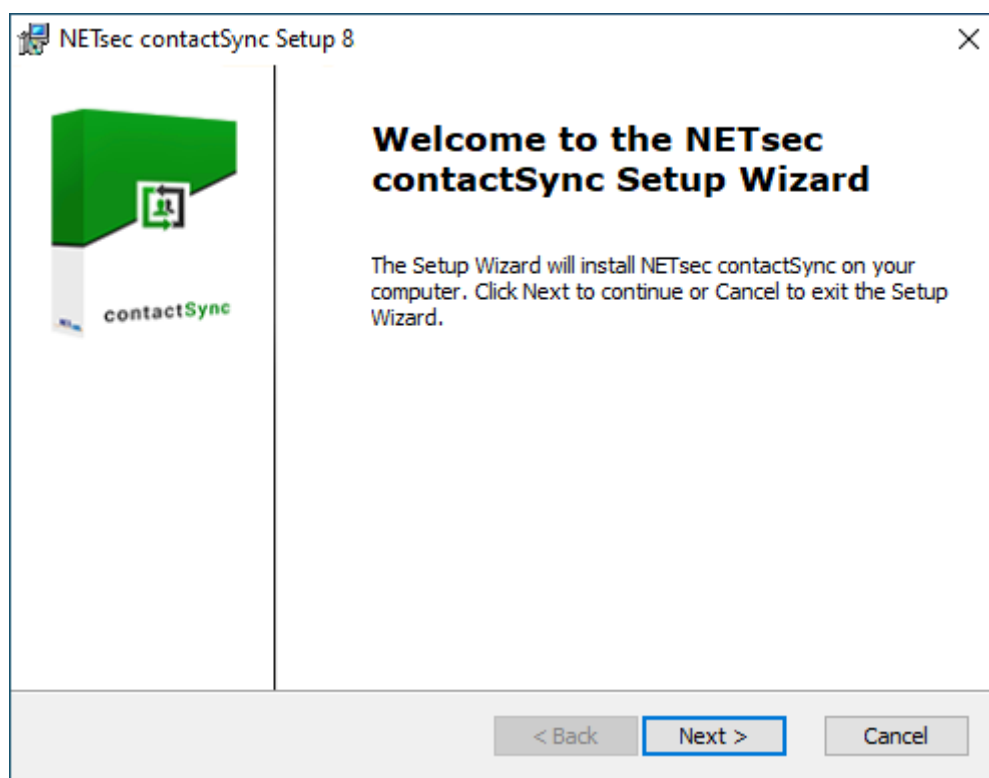
1. Backup (or copy) your contactSync program folder and the **common application data** folder.

Select **Action** -> **Export Configuration** to zip your Policy configuration.

Select **Action** -> **Export Status** to zip your log files.



2. Install the new contactSync version.



As of contactSync version 8, an **Environment Configuration** is necessary and must be configured. After that, existing policies can be migrated and new policies can be created and configured. Please see the **Incompatibility** chapter.

Important: Depending on the version gap, it may be necessary to reconfigure some options in your policies.

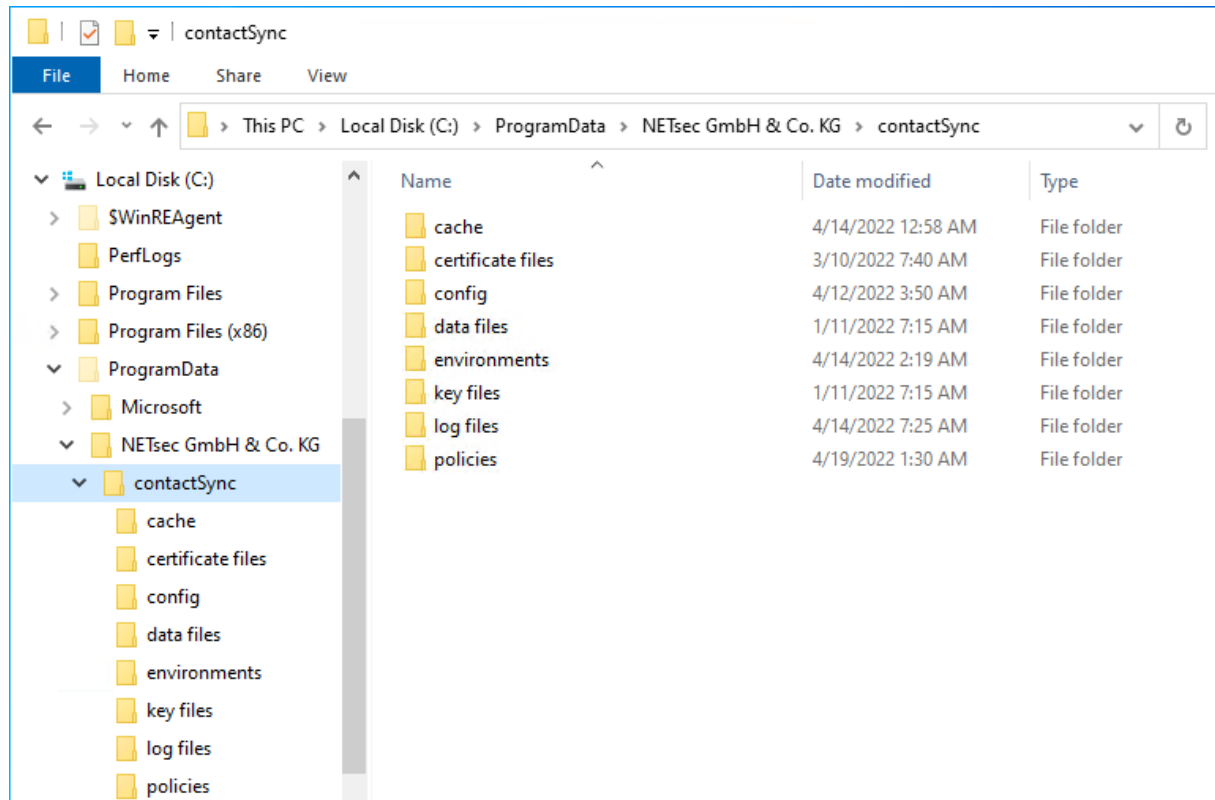
Where is the common application data folder?

The common application data folder can be retrieved in the Windows Explorer with the command

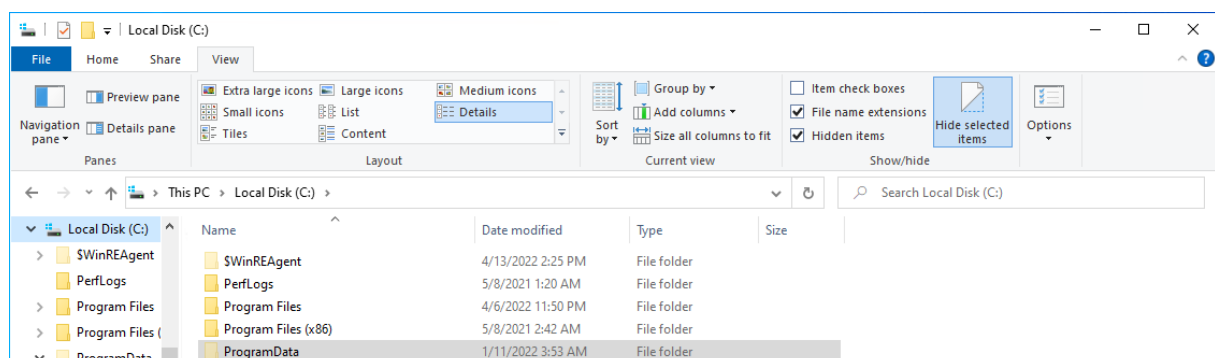
```
%ProgramData%\NETsec GmbH & Co. KG\contactSync
```

or

```
%systemdrive%\ProgramData\NETsec GmbH & Co. KG\contactSync
```



Note: The folder **ProgramData** is usually hidden. You may activate the option **Hidden items** of the File Explorer.



Incompatibility

contactSync version 8.5.6 or later compared with contactSync 8.5.5 and earlier

1. As of version 8.5.6, user-based authentication for applications no longer works.

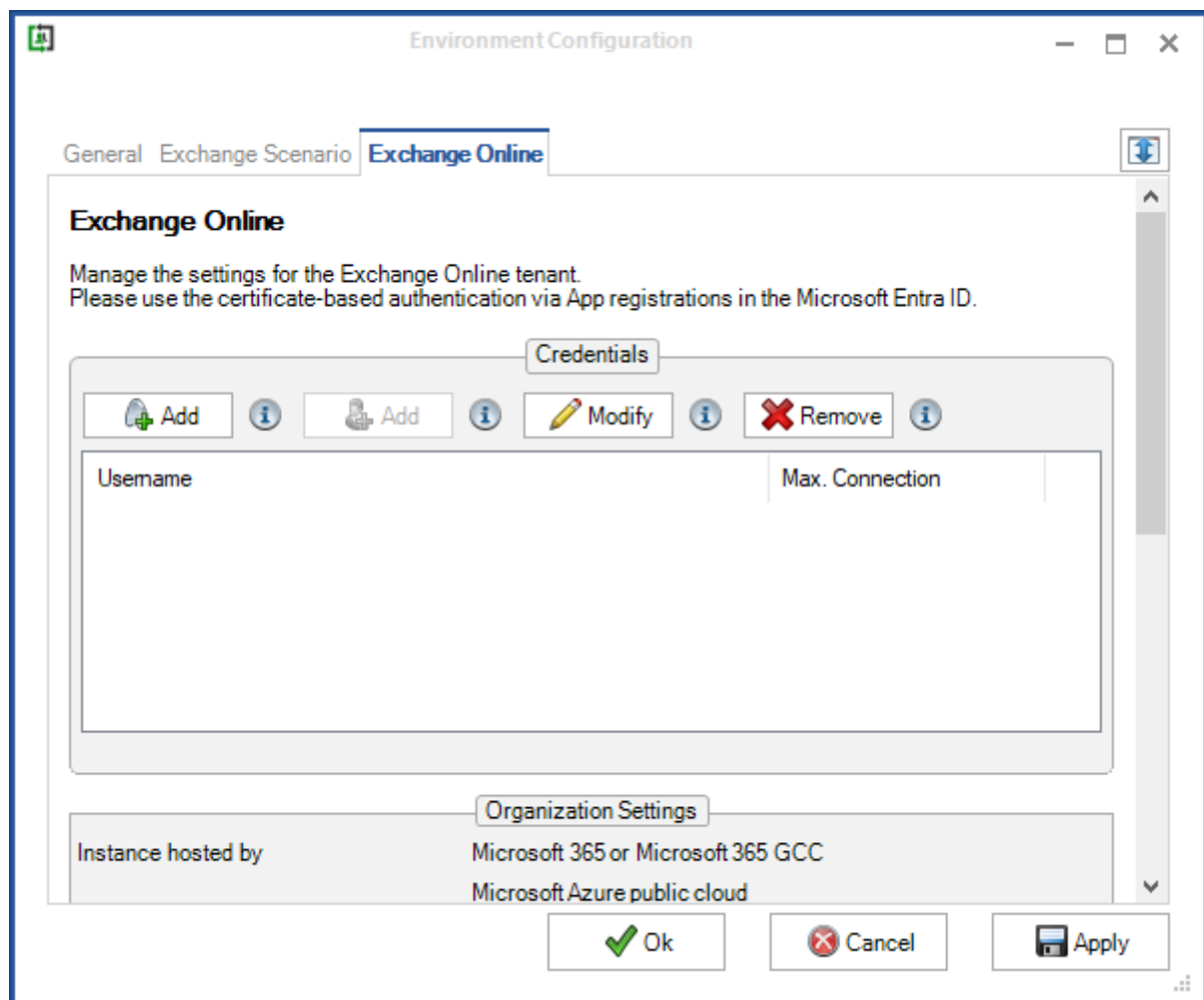
For this reason, the option to create a new user-based credential account has been deactivated. Please note, Microsoft requires multifactor authentication for user-based accounts and restricts access via Exchange Web Services for Exchange Online.

It is still possible to modify existing user-based accounts, but the switch to certificate-based authentication for access to Exchange Online mailboxes via Microsoft Graph will be required.

If you still have user-based accounts, you will find information on switching to certificate-based authentication in the chapter **How to switch from user-based authentication to certificate-based authentication** in the contactSync manual.

<https://www.netsec.de/en/products/galsync/documentation.html>

On the Exchange Online tab in the **Environment Configuration**, there is now only one available method to establish a connection to Exchange Online. Please use the certificate-based authentication via App registrations in Microsoft Entra ID.



2. Synchronizing contacts from Public Folder, which is located in Exchange Online, is deprecated.

No access to Public Folders in Exchange Online from 1. October 2026 any longer, because Microsoft will start blocking Exchange Web Services (EWS) requests to Exchange Online on 1. October 2026.

Retirement of Exchange Web Services in Exchange Online

<https://techcommunity.microsoft.com/blog/exchange/retirement-of-exchange-web-services-in-exchange-online/3924440>

contactSync version 8.5 compared with contactSync 8.4.6 and earlier

1. As of version 8.5, contactSync requires **.NET Framework 4.8**, **Windows PowerShell 5.1** and the **ExchangeOnlineManagement PowerShell module version 3.6 or later** for **Exchange Online PowerShell V3**.

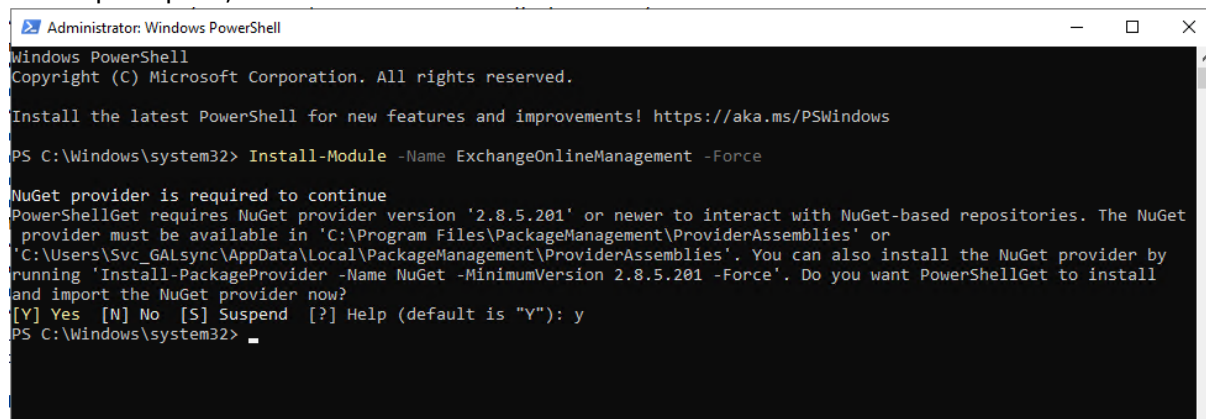
The **ExchangeOnlineManagement PowerShell module** needs to be installed or updated on the contactSync Server, so contactSync can directly communicate with a Microsoft 365 Exchange Online tenant.

Install ExchangeOnlineManagement PowerShell module

On the contactSync Server, open **Windows PowerShell** as **Administrator**, then run the following to install:

```
Install-Module -Name ExchangeOnlineManagement -Force
```

When prompted, enter **Y** for Yes then Return



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32> Install-Module -Name ExchangeOnlineManagement -Force

NuGet provider is required to continue
PowerShellGet requires NuGet provider version '2.8.5.201' or newer to interact with NuGet-based repositories. The NuGet
provider must be available in 'C:\Program Files\PackageManagement\ProviderAssemblies' or
'C:\Users\Svc_GALsync\AppData\Local\PackageManagement\ProviderAssemblies'. You can also install the NuGet provider by
running 'Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201 -Force'. Do you want PowerShellGet to install
and import the NuGet provider now?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y
PS C:\Windows\system32>
```

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter in the **Microsoft Docs: About the Exchange Online PowerShell module** <https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#install-the-exchange-online-powershell-module>

Update ExchangeOnlineManagement PowerShell module

On the contactSync Server, open **Windows PowerShell** as **Administrator**, then run the following to update:

```
Update-Module -Name ExchangeOnlineManagement -Force
```

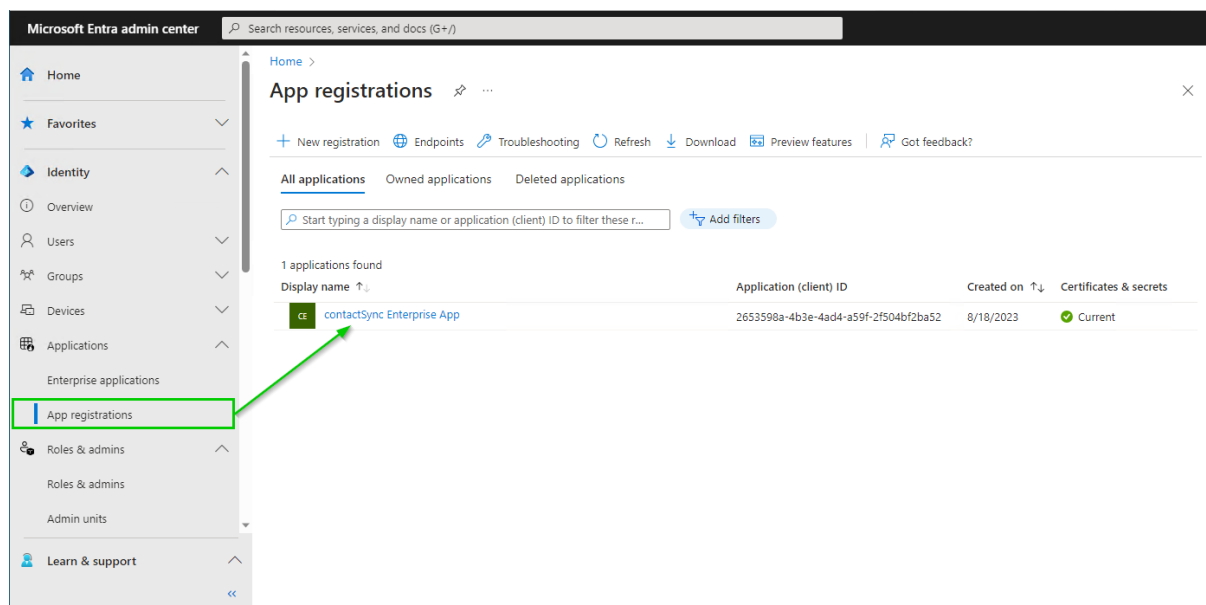
Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter in the **Microsoft Docs: About the Exchange Online PowerShell module** <https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#update-the-exchange-online-powershell-module>

2. As of version 8.5, contactSync supports **Microsoft Graph** to access mailboxes in Exchange Online.

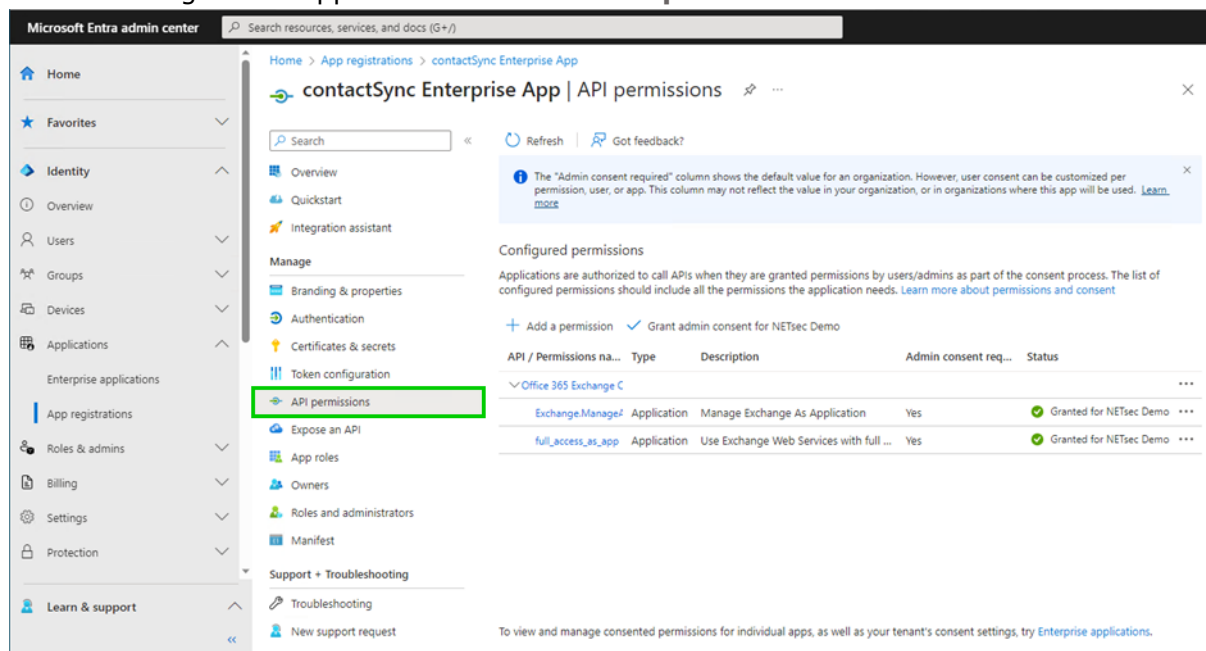
The following changes in the assigned API permissions of the App Registration in the **Microsoft Entra ID** are necessary to use Microsoft Graph to access mailboxes in Exchange Online.

The registered Application in App registrations

In the Microsoft Entra admin center menu, go to **Identity**, expand **Applications** and select **App registrations**.



Select the registered Application to see the **API permissions**.



The **Exchange.ManageAsApp** permission is also required to access Exchange Online mailboxes via **Microsoft Graph**.

API / Permissions name	Type	Description	Admin consent requ...	Status
Office 365 Exchange Online (2) ...				
Exchange.ManageAsApp	Application	Manage Exchange As Application	Yes	✔ Granted for NETsec Demo ...
full_access_as_app	Application	Use Exchange Web Services with full access to all mailboxes	Yes	✔ Granted for NETsec Demo ...

The **full_access_as_app** permission allows to access Exchange Online mailboxes via **Exchange Web Services** and is not needed to access Exchange Online mailboxes via **Microsoft Graph**.

Remove API permission for Exchange Web Services, if applicable

The **full_access_as_app** permission can be removed, except you use contactSync policies, which are **synchronizing contacts from a Public Folder**, that are located in Exchange Online, which at the moment need the **full_access_as_app** permission for Exchange Web Services.

If the **full_access_as_app** permission is not be needed anymore, it is necessary to **Revoke admin consent** first and then to **Remove permission** at the context menu of the permission entry.

API / Permissions name	Type	Description	Admin consent requ...	Status
Office 365 Exchange Online (2) ...				
Exchange.ManageAsApp	Application	Manage Exchange As Application	Yes	✔ Granted for NETsec Demo ...
full_access_as_app	Application	Use Exchange Web Services with full access to all mailboxes	Yes	✔ Granted for NETsec Demo ...

Remove permission

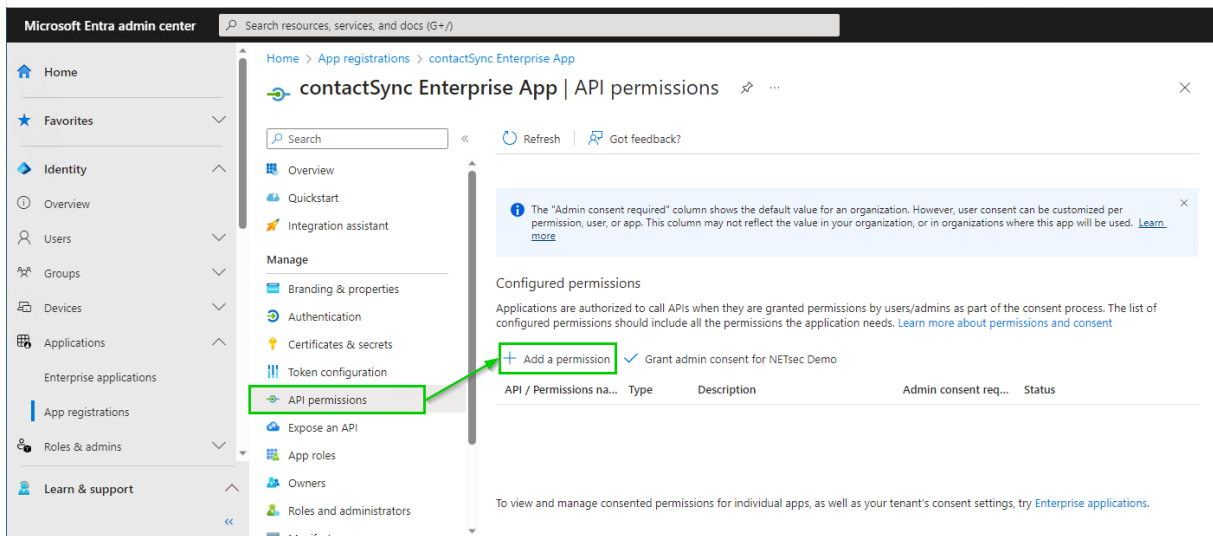
Revoke admin consent

Context menu

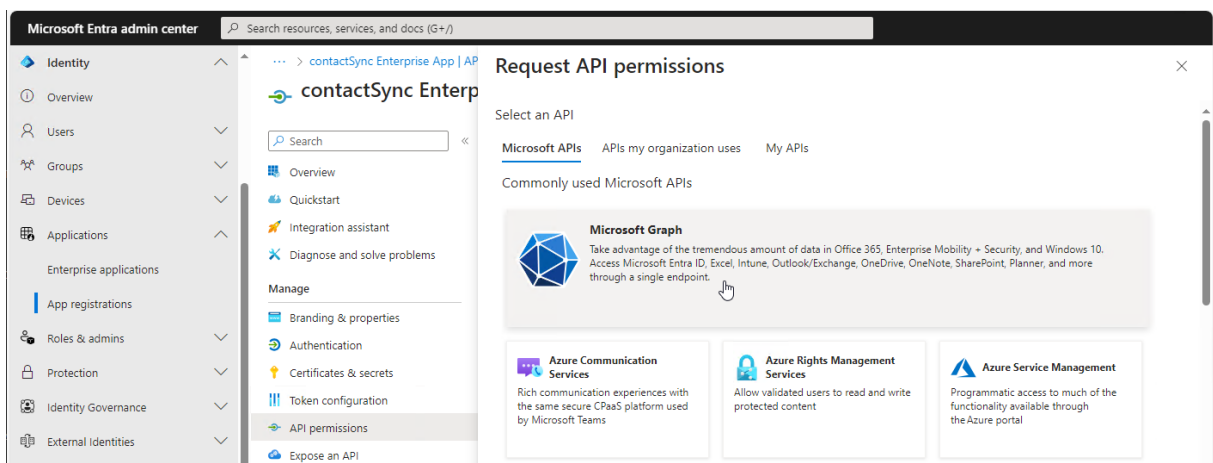
To view and manage consented permissions for individual apps, as well as your tenant's consent settings, try [Enterprise applications](#).

API permissions for Microsoft Graph

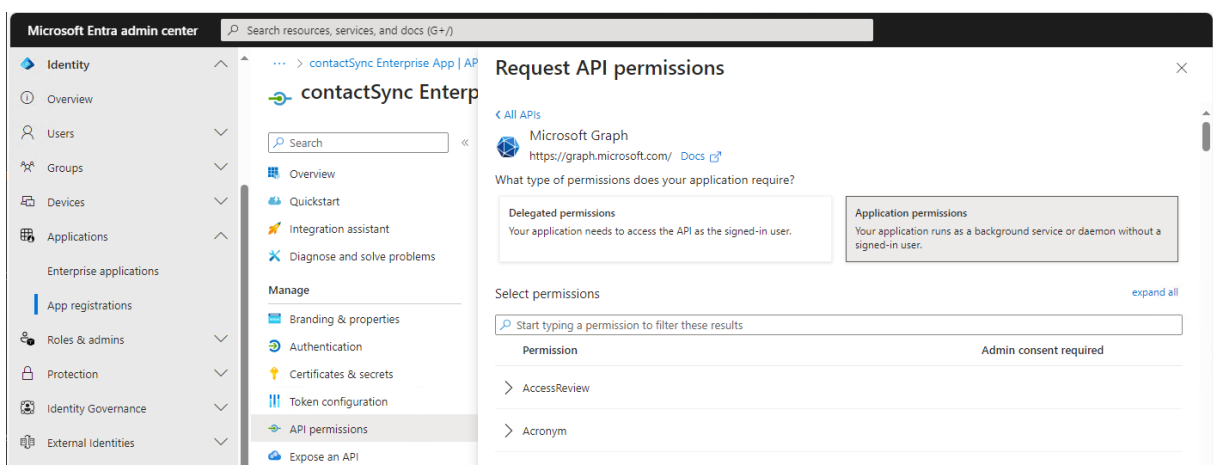
Go to **API permissions**, then select **Add a permission**



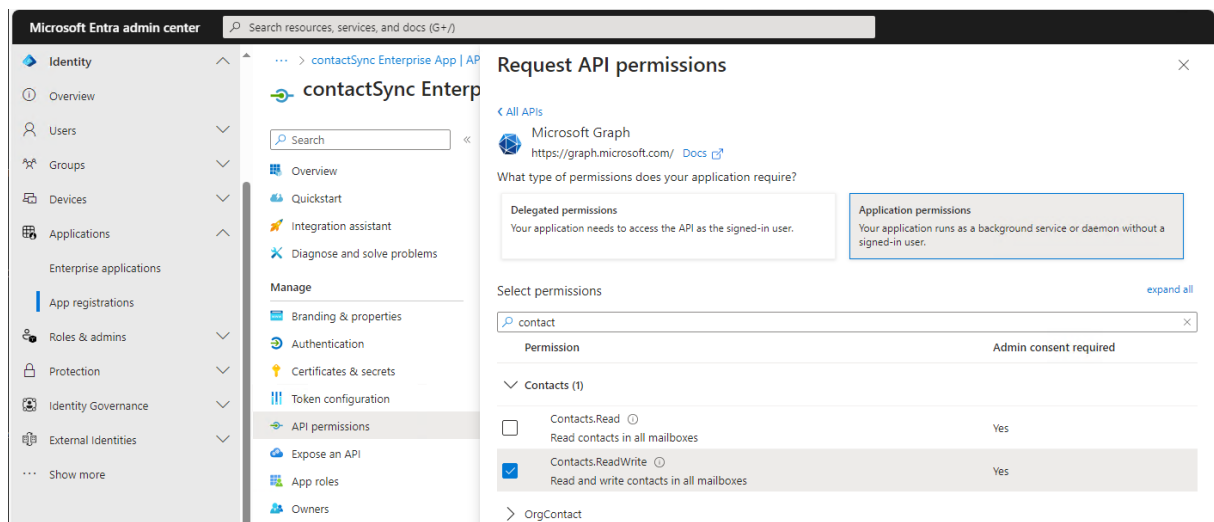
Select the **Microsoft APIs** and click on **Microsoft Graph**



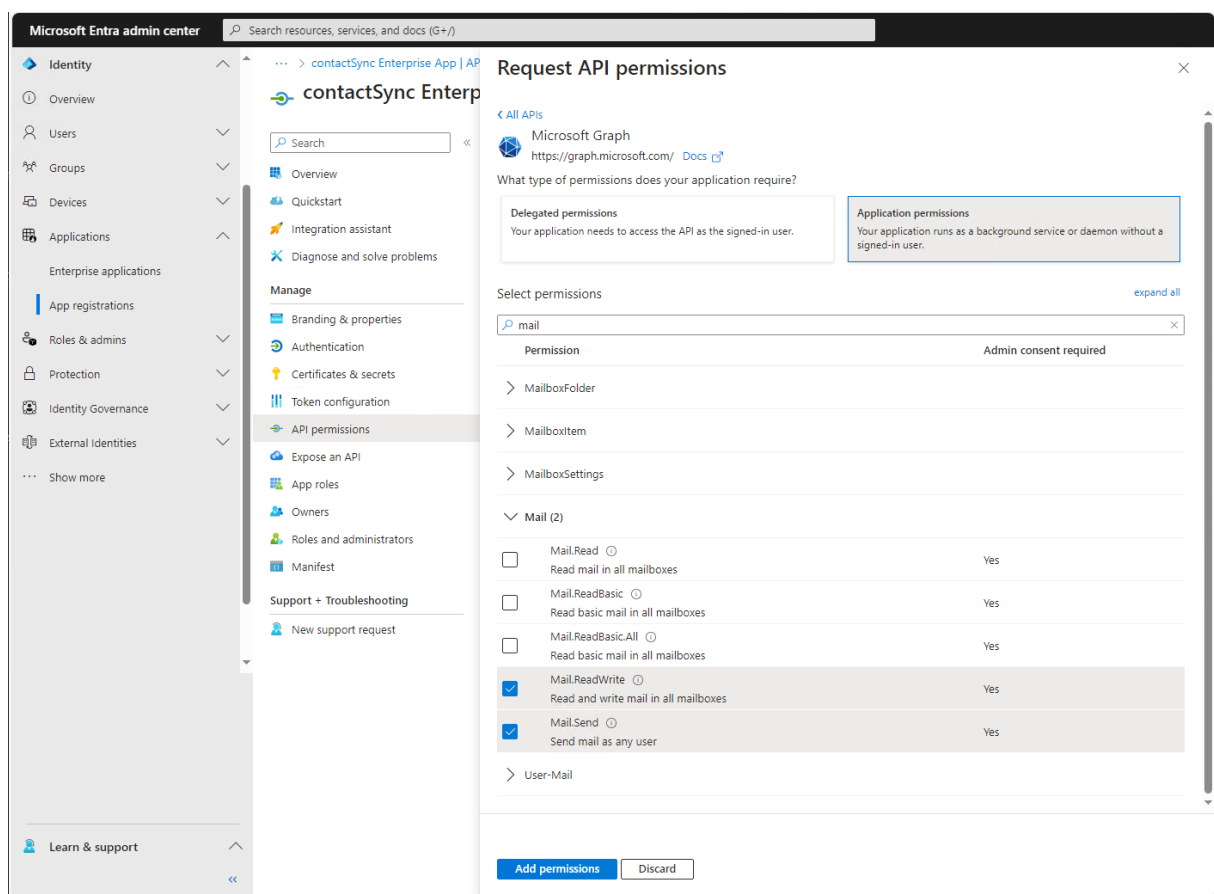
Select **Application permissions**



Search for **contact** and expand the **Contacts** in the result list.
Select
Contacts.ReadWrite



Search for **mail** and expand the **Mail** in the result list.
Select
Mail.ReadWrite
and
Mail.Send



Click **Add permissions**

Click **Grant admin consent** for your tenant.

Microsoft Entra admin center

Search resources, services, and docs (G+/)

contactSync Enterprise App | API permissions

Overview

Quickstart

Integration assistant

Diagnose and solve problems

Manage

Branding & properties

Authentication

Certificates & secrets

Token configuration

API permissions

Expose an API

App roles

Owners

Roles and administrators

Manifest

Support + Troubleshooting

New support request

Learn & support

You are editing permission(s) to your application, users will have to consent even if they've already done so previously.

The "Admin consent required" column shows the default value for an organization. However, user consent can be customized per permission, user, or app. This column may not reflect the value in your organization, or in organizations where this app will be used. [Learn more](#)

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

+ Add a permission ✓ Grant admin consent for NETSec Demo

API / Permissions name	Type	Description	Admin consent required	Status
Microsoft Graph (3)				
Contacts.ReadWrite	Application	Read and write contacts in a...	Yes	Not granted for NETSec ...
Mail.ReadWrite	Application	Read and write mail in all ma...	Yes	Not granted for NETSec ...
Mail.Send	Application	Send mail as any user	Yes	Not granted for NETSec ...
Office 365 Exchange Online (2)				
Exchange.ManageAsApp	Application	Manage Exchange As Applic...	Yes	Granted for NETSec Demo

To view and manage consented permissions for individual apps, as well as your tenant's consent settings, try [Enterprise applications](#).

Click **Yes** to confirm the consent.

Microsoft Entra admin center

Search resources, services, and docs (G+/)

contactSync Enterprise App | API permissions

Overview

Quickstart

Integration assistant

Diagnose and solve problems

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Branding & properties

Authentication

Certificates & secrets

Token configuration

API permissions

Expose an API

App roles

Owners

Roles and administrators

Manifest

Support + Troubleshooting

New support request

Learn & support

Grant admin consent confirmation.

Do you want to grant consent for the requested permissions for all accounts in NETSec Demo? This will update any existing admin consent records this application already has to match what is listed below.

Yes No

Configured permissions

Applications are authorized to call APIs when they are granted permissions by users/admins as part of the consent process. The list of configured permissions should include all the permissions the application needs. [Learn more about permissions and consent](#)

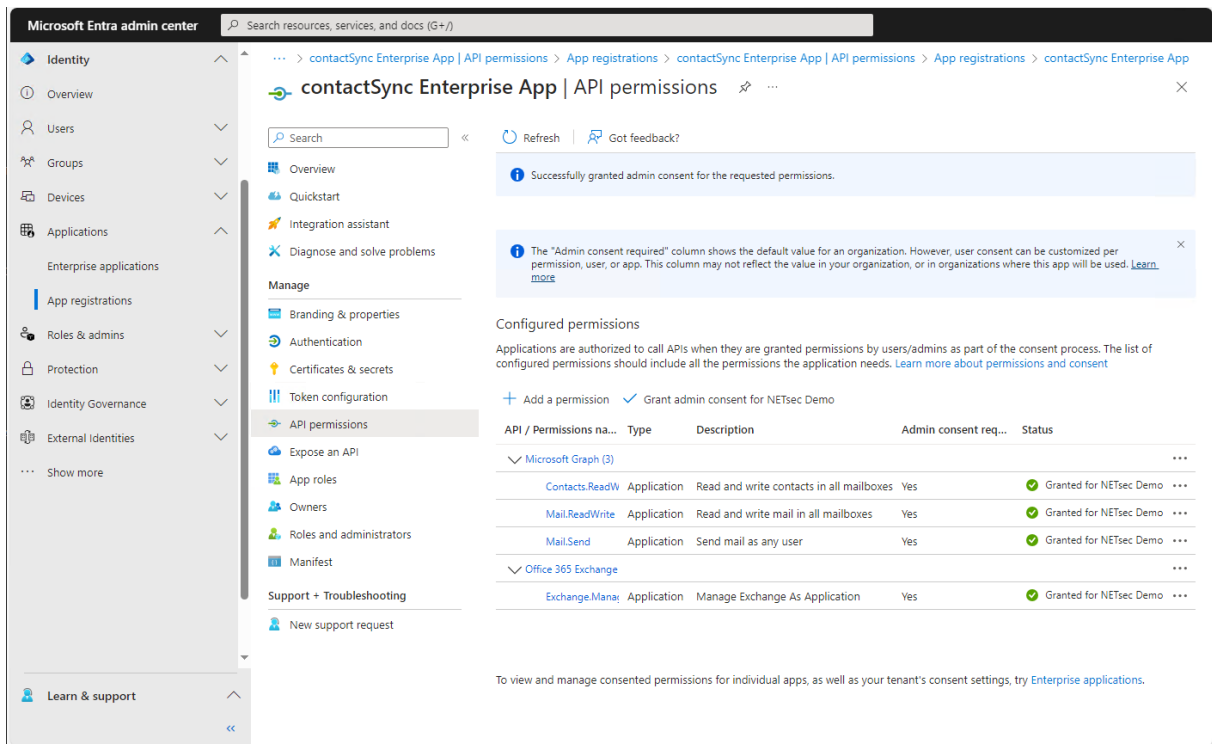
+ Add a permission ✓ Grant admin consent for NETSec Demo

API / Permissions name	Type	Description	Admin consent required	Status
Microsoft Graph (3)				
Contacts.ReadWrite	Application	Read and write contacts in a...	Yes	Not granted for NETSec ...
Mail.ReadWrite	Application	Read and write mail in all ma...	Yes	Not granted for NETSec ...
Mail.Send	Application	Send mail as any user	Yes	Not granted for NETSec ...
Office 365 Exchange Online (2)				
Exchange.ManageAsApp	Application	Manage Exchange As Applic...	Yes	Granted for NETSec Demo

To view and manage consented permissions for individual apps, as well as your tenant's consent settings, try [Enterprise applications](#).

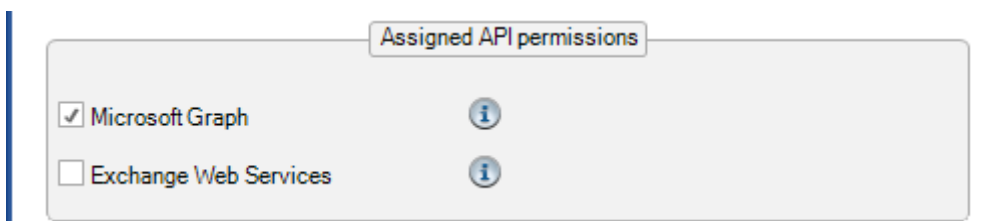
API permissions are assigned to the registered Application.


Policies synchronizing contacts from Exchange Online and from Shared Mailboxes, which are located in Exchange Online, need these API permissions.



Update the Environment Configuration in contactSync

Accordingly, select **Microsoft Graph** at the **Assigned API permissions** group box in the **Exchange Online App Registration** dialog and uncheck the **Exchange Web Services**, if you have removed the **full_access_as_app** permission.






NETsecDemo Hybrid Exchange - Environment Configuration



General
Exchange Scenario
Exchange Server on-premises
Exchange Online



Exchange Online



Manage the settings for the Exchange Online tenant.
All accounts of the Microsoft 365 tenant have Exchange Administrator role permission for Exchan

Credentials


 Add


 Add


 Modify



 Remove


Username	Max. Connection
Primary Mailbox Account	
contactSync Enterprise App	2


Exchange Online App Registration


Corresponding settings for the Enterprise Application in the Microsoft Entra ID (formerly Azure AD) App registrations that enables access to Exchange Online.

Organization / Tenant




netsecdemotenant.onmicrosoft.com

Application Display Name



contactSync Enterprise App

Application ID



14026243-a793-4430-bad1f905fa118df0

Certificate

Friendly Name

NETsecDemo from contactSync03

Not After

2026-04-25

Subject

CN=NETsecDemoFromContactSync03

Thumbprint

321613DEDB9AB176F724BB5D38B2A428E8FB2208

Has PrivateKey


True

User


NETSECDEMO\svc_contactsync


Choose Certificate

Create Certificate

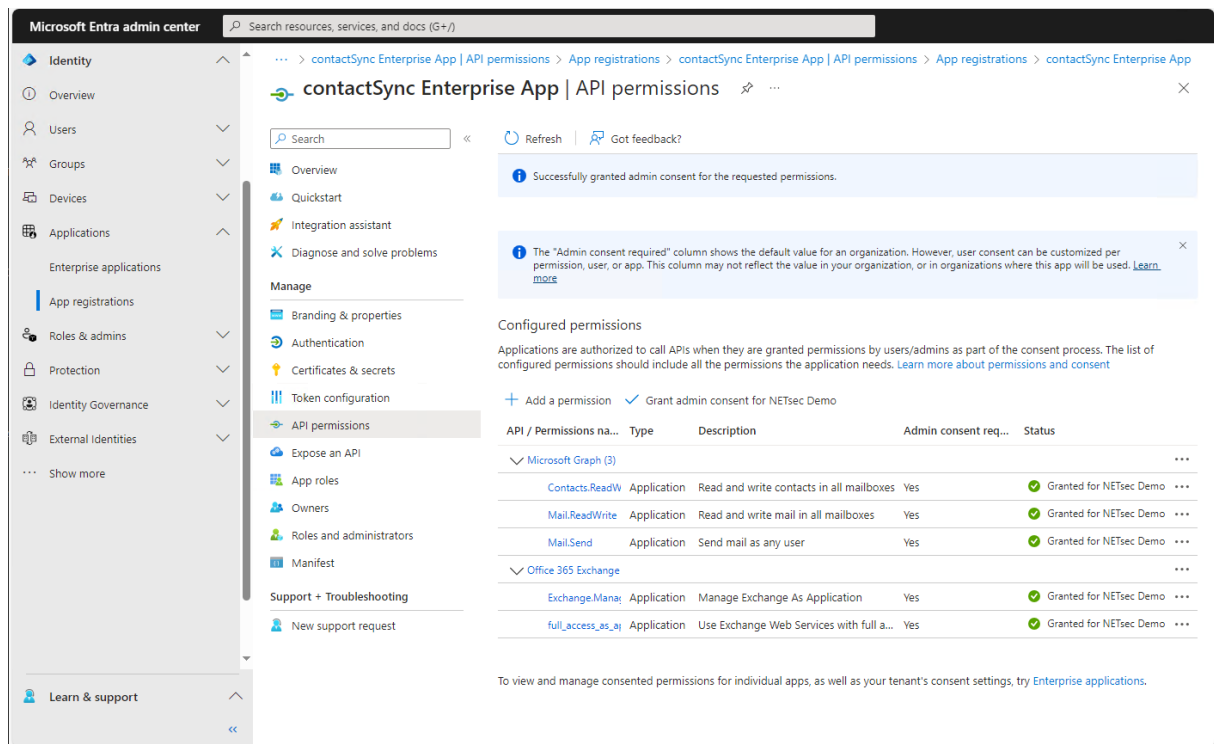


Assigned API permissions

☒ Microsoft Graph


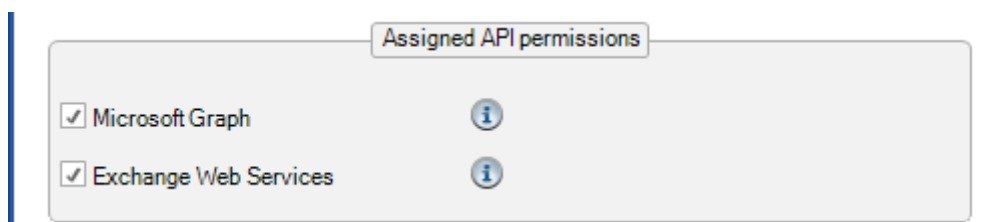
☐ Exchange Web Services



Policies synchronizing contacts from a Public Folder, which are located in Exchange Online, which at the moment need the permission for Exchange Web Services.



Update the Environment Configuration in contactSync

Accordingly, select **Microsoft Graph** and **Exchange Web Services** at the **Assigned API permissions** group box in the **Exchange Online App Registration** dialog.






NETsecDemo Hybrid Exchange - Environment Configuration



General
Exchange Scenario
Exchange Server on-premises
Exchange Online



Exchange Online



Manage the settings for the Exchange Online tenant.
All accounts of the Microsoft 365 tenant have Exchange Administrator role permission for Exchan


Credentials


 Add


 Add


 Modify



 Remove


Username	Max. Connection
Primary Mailbox Account	
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Exchange Online App Registration


Corresponding settings for the Enterprise Application in the Microsoft Entra ID (formerly Azure AD) App registrations that enables access to Exchange Online.

Organization / Tenant




netsecdemotenant.onmicrosoft.com

Application Display Name



contactSync Enterprise App

Application ID



14026243-a793-4430-bad1f905fa118df0

Certificate

Friendly Name

NETsecDemo from contactSync03

Not After

2026-04-25

Subject

CN=NETsecDemoFromContactSync03

Thumbprint

321613DEDB9AB176F724BB5D38B2A428E8FB2208

Has PrivateKey


True

User


NETSECDEMO\svc_contactsync


Choose Certificate

Create Certificate



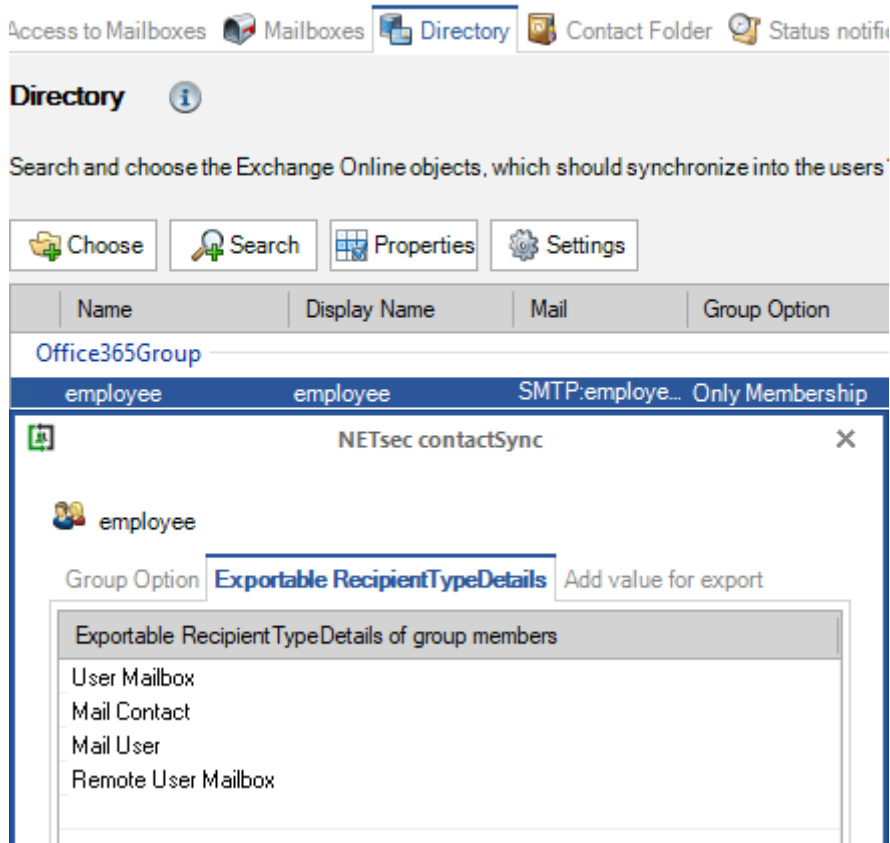
Assigned API permissions

☒ Microsoft Graph


☒ Exchange Web Services


3. The behavior when synchronizing members of a selected group for policies, that synchronize from Exchange Online, has been adapted to the behavior when synchronizing from on-premises.

The members of a group selected in the policy are resolved, even if a **RecipientTypeDetails** for exporting the group is missing from the **Exportable RecipientTypeDetails** list of the selected group.



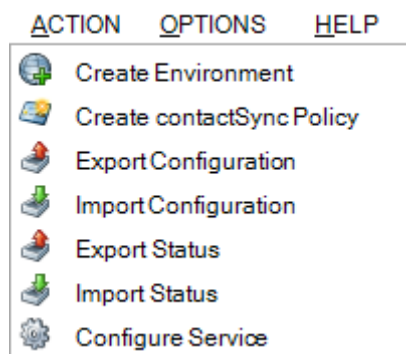
contactSync version 8.4.3 and later compared with contactSync 8.4.2 and earlier

Please note, during the first policy run after upgrading contactSync from an earlier version than 8.4.0, contactSync may update all previously synchronized contacts in the mailboxes.

1. Please backup the contactSync configuration of the earlier version than 8.4.3, before you install the latest one. The selection of mailboxes in contactSync policies will be automatically migrated to better support a hybrid Exchange environment.

Select **Action** -> **Export Configuration** to compress your Environment Configuration and Policy configuration to a zip file.

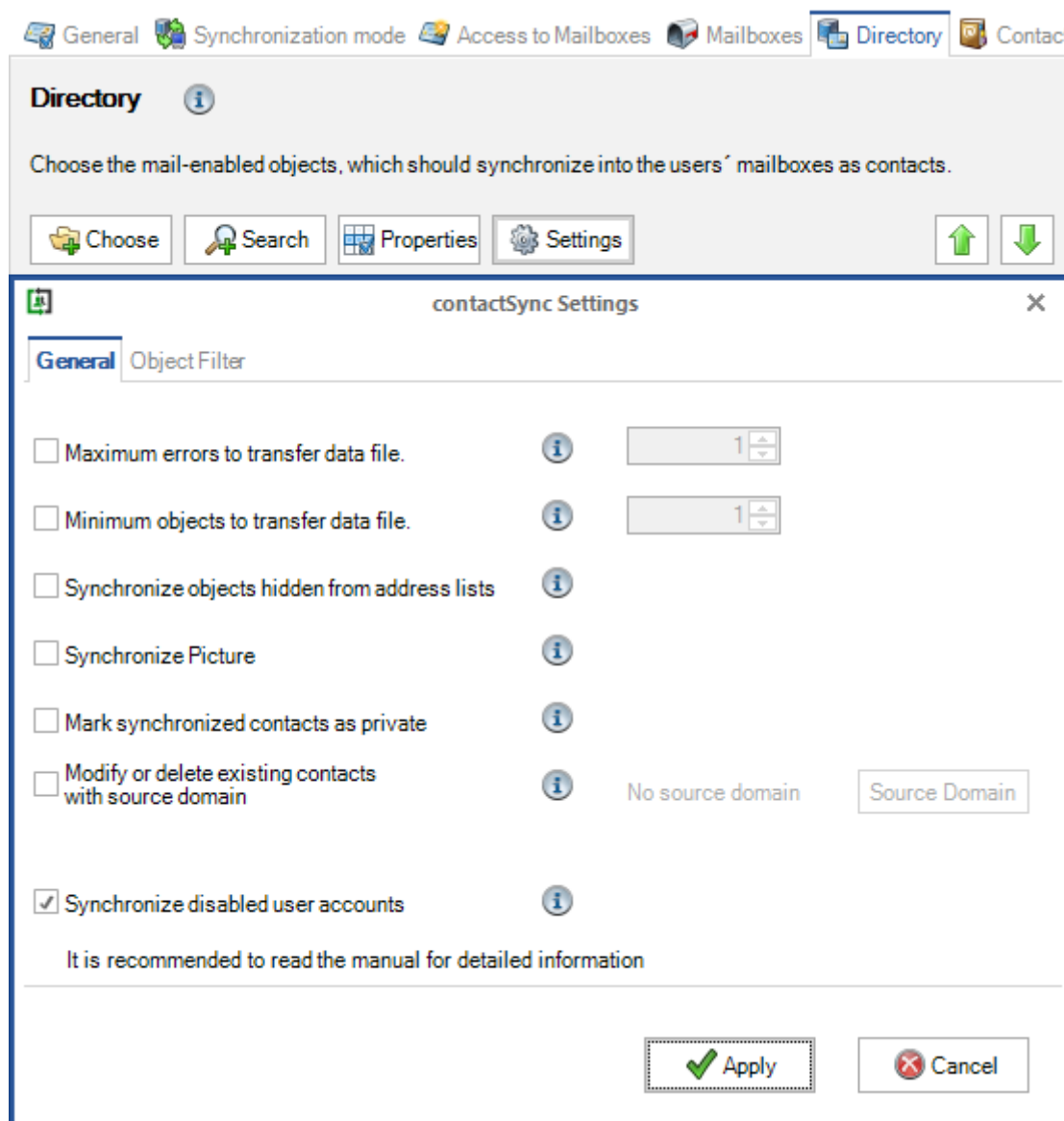
Select **Action** -> **Export Status** to compress your log files to a zip file.



2. As of version 8.4.2, user account objects that are disabled are no longer synchronized as contacts from on-premises Active Directory into users' mailboxes by default.

Enable the **Synchronize disabled user accounts** option on the **General** tab of the **contactSync Settings** to also synchronize disabled user objects as contacts from on-premises.

In the event of an upgrade from a contactSync version 8.4.1 or earlier versions to the current contactSync version, the **Synchronize disabled user accounts** option is enabled in the existing policies, which synchronize objects from on-premises into users' mailboxes.



3. As of version 8.4.3, it is possible to assign the **Exchange Recipient Administrator role** for Exchange Online instead of the **Exchange Administrator role** to the App Registration.

Please also take a look at the **Exchange Online certificate-based authentication via App Registration** chapter in the contactSync manual for the complete description of how to configure an App Registration. In the following, only the part **Exchange Administrator role for the registered Application** is replaced in order to be able to use the Exchange Recipient Administrator role for Exchange Online.

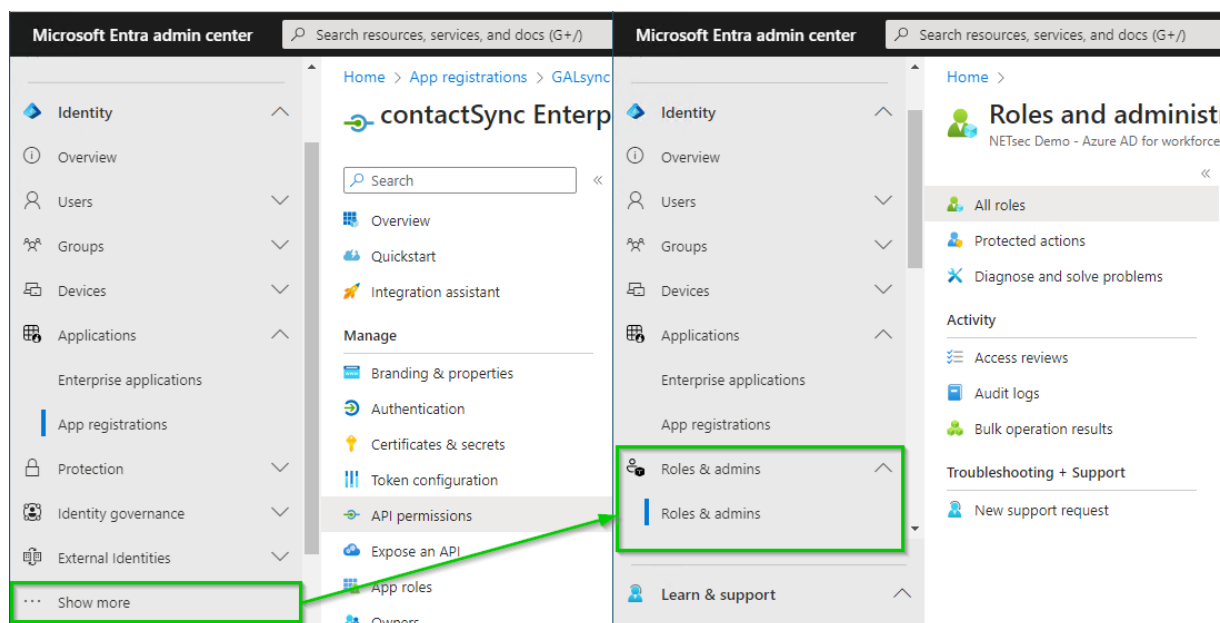
Exchange Administrator role or Exchange Recipient Administrator role for the registered Application (App Registration)

The **Exchange Recipient Administrator role** or the **Exchange Administrator role** for Exchange Online is necessary because contactSync communicates via the **Exchange Online PowerShell** with the Microsoft 365 tenant.

Please note that the Exchange Recipient Administrator role for Exchange Online has restrictions, e.g. it is not possible to check whether application access policies exist for the registered application (App Registration).

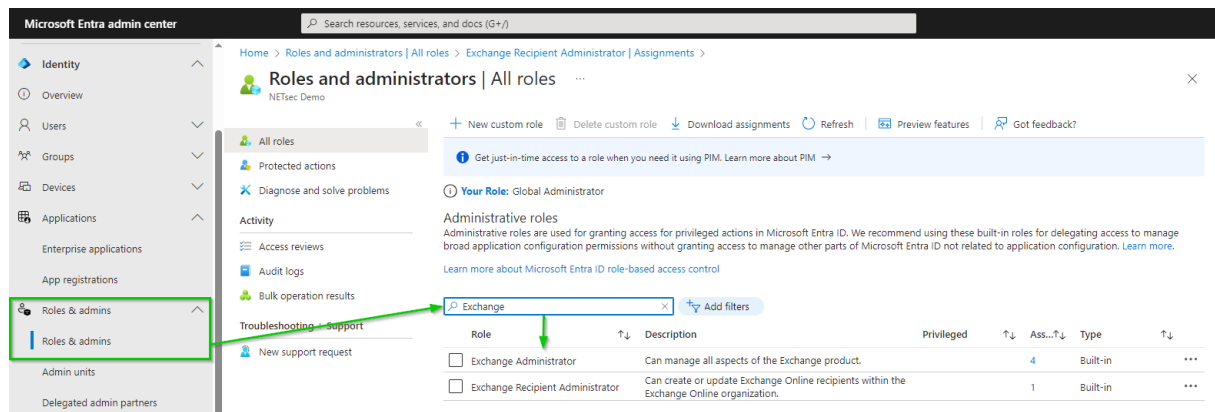
It may be that the Exchange Administrator role must be assigned to the registered application (App Registration) in the event of problems.

The application requires **Exchange Recipient Administrator role** or the **Exchange Administrator role** in the Microsoft 365 tenant, otherwise contactSync will not have access to the complete set of Exchange Online PowerShell cmdlets which are needed to function properly.



Expand **Roles & admins**. If you do not see **Roles & admins** in the **Identity** menu, click **Show more ...**

Go to **Roles & admins** in the expanded **Roles & admins** menu and search for **Exchange**.



The result is **Exchange Administrator** and **Exchange Recipient Administrator**.

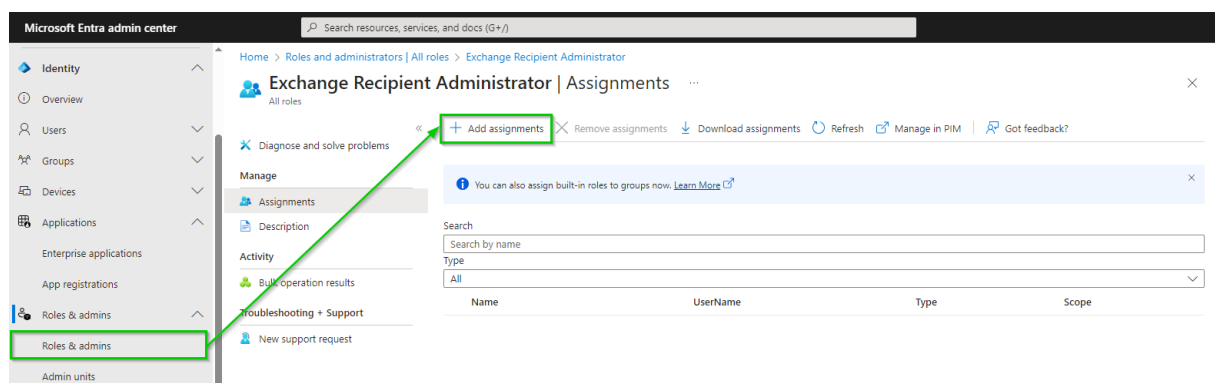
Decide which of the two roles should be assigned to the App Registration.

Please note that the Exchange Recipient Administrator role for Exchange Online has restrictions, e.g. it is not possible to check whether application access policies exist for the registered application (App Registration).

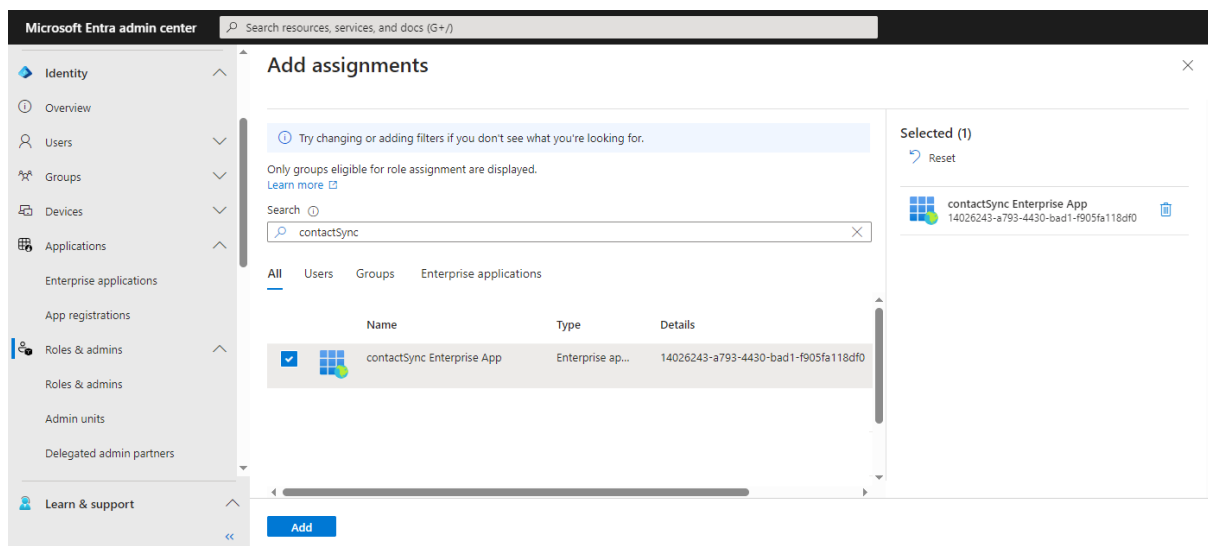
It may be that the Exchange Administrator role must be assigned to the registered application (App Registration) in the event of problems.

For example, the **Exchange Recipient Administrator** for Exchange Online.

Click on the **Exchange Recipient Administrator** in the result list to open the Exchange Recipient Administrator role.

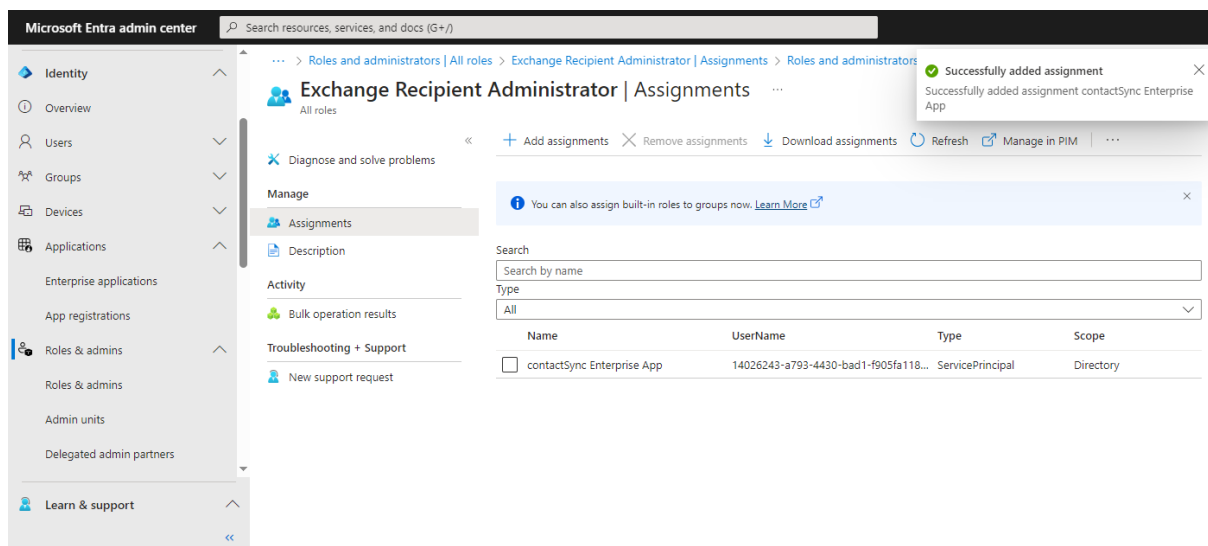


Click **Add assignments**, then search for the registered application.



Select the registered application and click **Add**.

The application has been assigned the **Exchange Recipient Administrator** role.



contactSync version 8.4 compared with contactSync 8.3.x

Please note, during the first policy run after upgrading contactSync from an older version than 8.4.0, contactSync may update all previously synchronized contacts in the mailboxes.

1. As of version 8.4, contactSync requires **.NET Framework 4.8, Windows PowerShell 5.1** and the **ExchangeOnlineManagement PowerShell module version 3.4 or later** for **Exchange Online PowerShell V3**.

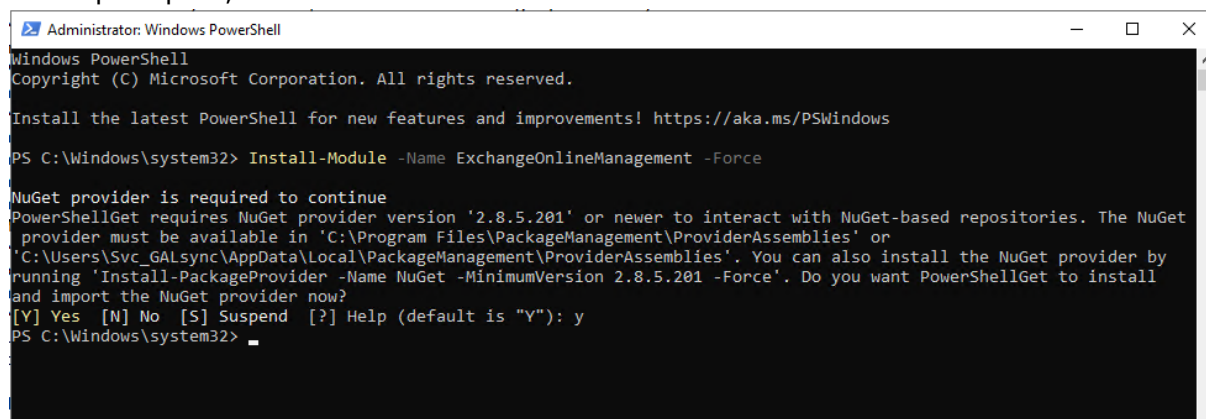
The **ExchangeOnlineManagement PowerShell module** needs to be installed or updated on the contactSync Server, so contactSync can directly communicate with a Microsoft 365 Exchange Online tenant.

Install ExchangeOnlineManagement PowerShell module

On the contactSync Server, open **Windows PowerShell as Administrator**, then run the following to install:

```
Install-Module -Name ExchangeOnlineManagement -Force
```

When prompted, enter **Y** for Yes then Return



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32> Install-Module -Name ExchangeOnlineManagement -Force

NuGet provider is required to continue
PowerShellGet requires NuGet provider version '2.8.5.201' or newer to interact with NuGet-based repositories. The NuGet
provider must be available in 'C:\Program Files\PackageManagement\ProviderAssemblies' or
'C:\Users\Svc_GALsync\AppData\Local\PackageManagement\ProviderAssemblies'. You can also install the NuGet provider by
running 'Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201 -Force'. Do you want PowerShellGet to install
and import the NuGet provider now?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y
PS C:\Windows\system32>
```

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter in the **Microsoft Docs: About the Exchange Online PowerShell module** <https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#install-the-exchange-online-powershell-module>

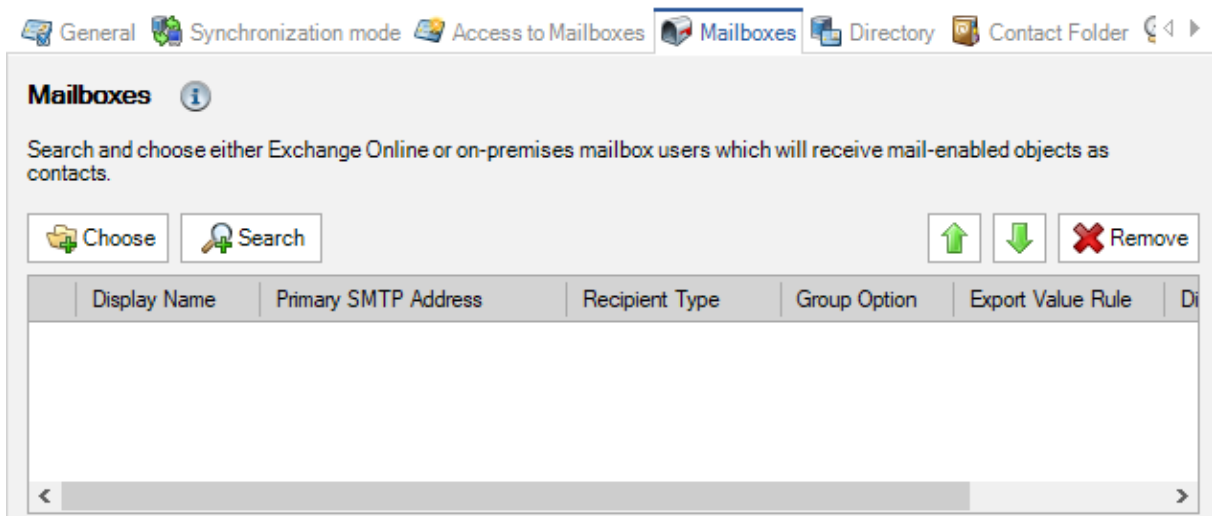
Update ExchangeOnlineManagement PowerShell module

On the contactSync Server, open **Windows PowerShell as Administrator**, then run the following to update:

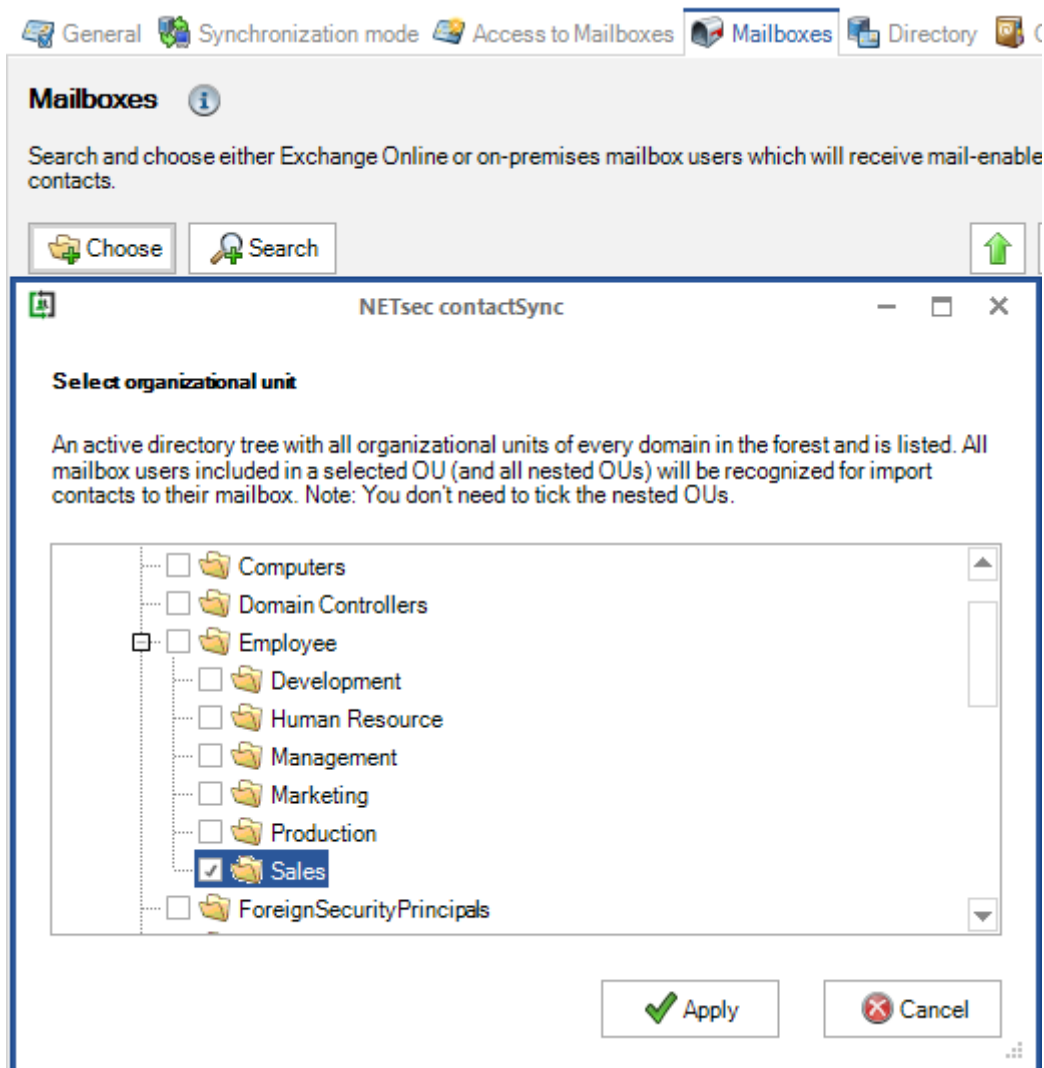
```
Update-Module -Name ExchangeOnlineManagement -Force
```

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter in the **Microsoft Docs: About the Exchange Online PowerShell module** <https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#update-the-exchange-online-powershell-module>

2. As of version 8.4, the handling of hybrid Exchange environments has been extended for contactSync policies. In hybrid Exchange environments, mailboxes can be selected from Exchange on-premises and Exchange Online within the same policy if no Recipient Type has been selected in Mailboxes tab.



Click **Choose** to select mailboxes by OU where they reside in Active Directory.



Click **Search** to open a search dialog window from which you can select where to search for the desired objects in a hybrid Exchange environment.

When searching Active Directory, mailboxes can be selected individually, by group membership, by container, or by OU. It is recommended to select mailboxes by group membership.

General Synchronization mode Access to Mailboxes **Mailboxes** Directory Contact Folder Status notification emails ScheduleService

Mailboxes ⓘ

Search and choose either Exchange Online or on-premises mailbox users which will receive mail-enabled objects as contacts.

Choose Search

NETsec contactSync

☒ Search Active Directory ☐ Search Exchange Online

You can search an object by inserting an expression. Uncheck all object types which you do not want to have as a result. The scope of the query is the complete forest your exchange organization belongs to. The result list contains all objects found. Select certain or all objects to be gathered for resolve mailbox users and press apply.

Search

☒ User ☒ OU ☒ DynamicDistributionGroup
☒ Container ☒ Group

maximum Results 500

Show log

Display Name	Primary Smtp Address	Recipient Type	DistinguishedName
--------------	----------------------	----------------	-------------------

☐ Select all

NETsec contactSync

☒ Search Active Directory ☐ Search Exchange Online

You can search an object by inserting an expression. Uncheck all object types which you do not want to have as a result. The scope of the query is the complete forest your exchange organization belongs to. The result list contains all objects found. Select certain or all objects to be gathered for resolve mailbox users and press apply.

all employees Search

☒ User ☒ OU ☒ DynamicDistributionGroup
☒ Container ☒ Group

maximum Results 500

Message: Search for objects in the domain LDAP://NETsecDemo.Local

Active Directory search is finished.

Show log

Display Name	Primary Smtp Address	Recipient Type	DistinguishedName
DynamicDistributionGroup			
<input checked="" type="checkbox"/> All Employees	AllEmployees@netsecdemo.com	MsExchDynamicDistributionList	CN=All Employees,OU=Resources,DC=...

☐ Select all

When searching in Exchange Online, mailboxes can be selected individually or by group membership. It is recommended to select mailboxes by group membership.

General Synchronization mode Access to Mailboxes Mailboxes Directory Contact Folder Status notification emails ScheduleService

Mailboxes

Search and choose either Exchange Online or on-premises mailbox users which will receive mail-enabled objects as contacts.

Choose Search

NETsec contactSync

☐ Search Active Directory ☒ Search Exchange Online

You can search an object by inserting an expression. Uncheck all object types which you do not want to have as a result. The scope of the query is the complete forest your exchange organization belongs to. The result list contains all objects found. Select certain or all objects to be gathered for resolve mailbox users and press apply.

Search

☒ UserMailbox
 ☒ MailUniversalSecurityGroup
 ☒ Office365Group
 ☒ MailUniversalDistributionGroup
 ☒ DynamicDistributionGroup

maximum Results 500

Show log

Display Name	Primary Smtip Address	Recipient Type	DistinguishedName
--------------	-----------------------	----------------	-------------------

☐ Select all

NETsec contactSync

☐ Search Active Directory ☒ Search Exchange Online

You can search an object by inserting an expression. Uncheck all object types which you do not want to have as a result. The scope of the query is the complete forest your exchange organization belongs to. The result list contains all objects found. Select certain or all objects to be gathered for resolve mailbox users and press apply.

all employees Search

☒ UserMailbox
 ☒ MailUniversalSecurityGroup
 ☒ Office365Group
 ☒ MailUniversalDistributionGroup
 ☒ DynamicDistributionGroup

maximum Results 500

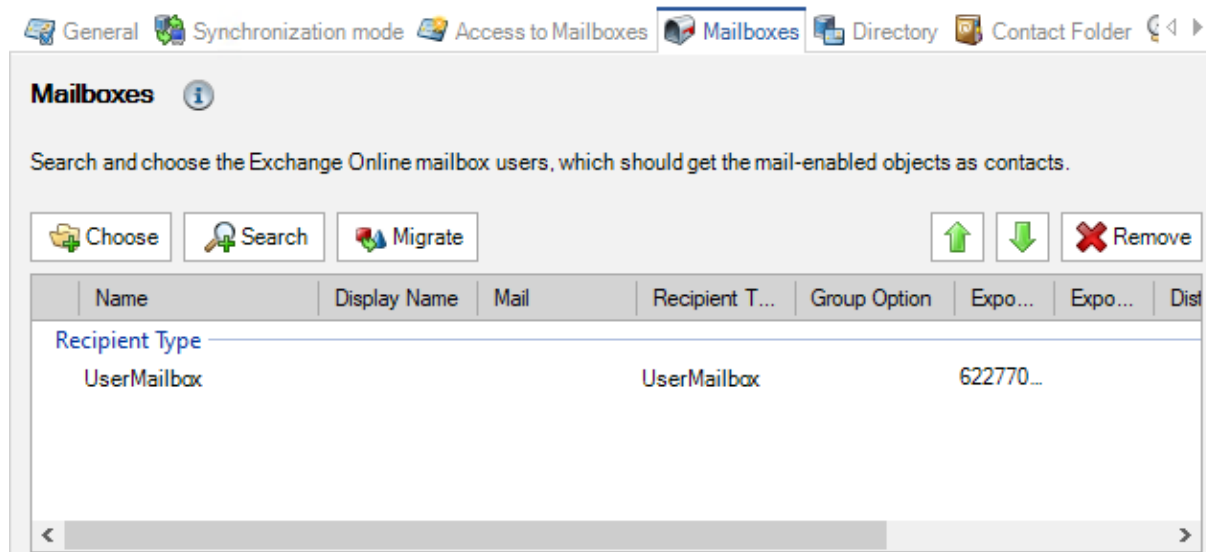
Show log

The ConnectionInfo method was called from: <ps_RemotePowershellDisconnected>b__0
 Information | All connections are disconnected. Finishing...
 Warning | No remote PowerShell connections is available anymore.

Display Name	Primary Smtip Address	Recipient Type	DistinguishedName
DynamicDistributionGroup			
<input checked="" type="checkbox"/> All Employees	AllEmployees@netsecDemo.com	DynamicDistributionGro...	CN=All Employees,...

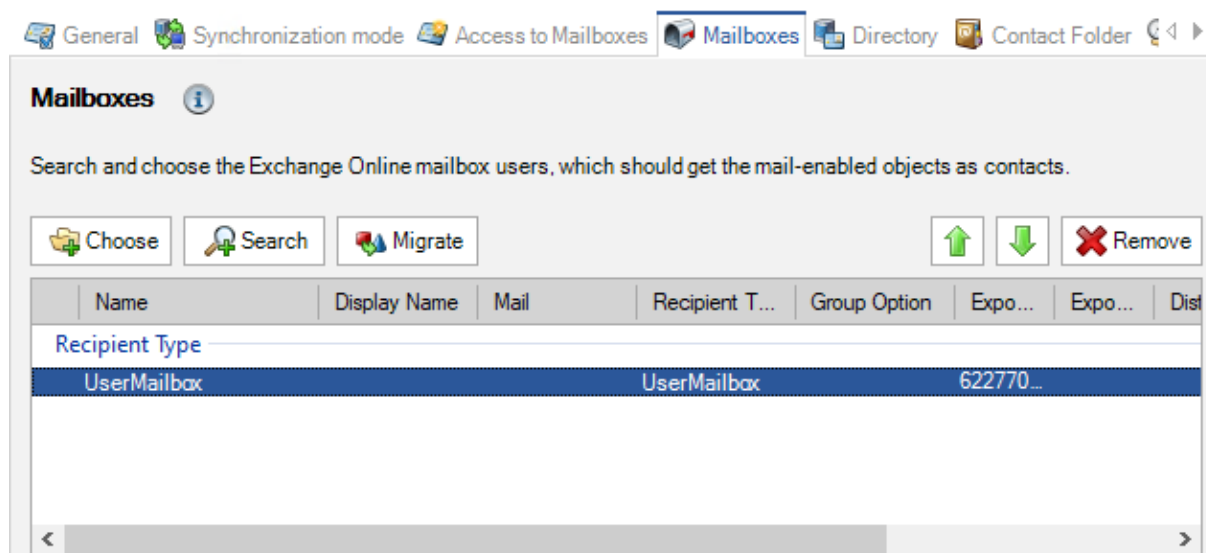
☐ Select all

3. As of version 8.4, the option to select new mailboxes by **Recipient Type** for Exchange Online is no longer available. The selection by **Recipient Type** has been deprecated and will not be supported for new policies any longer.



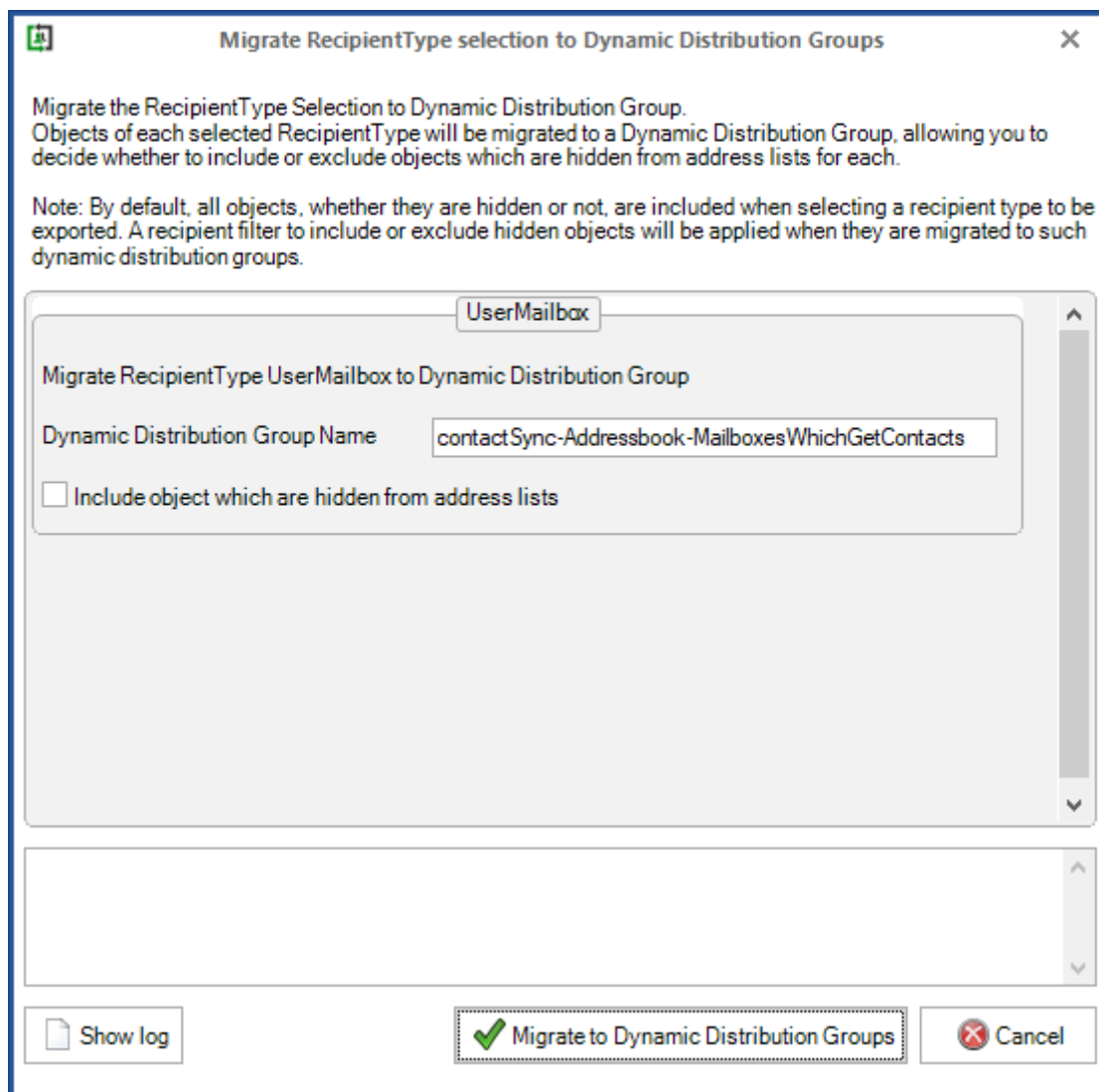
The mailbox selections, which will receive the contacts, can be selected on-premises and Exchange Online for hybrid Exchange environments within the same policy, if no **Recipient Type** on the **Mailboxes** tab is selected.

In the **Mailboxes** tab of an existing policy, if a **Recipient Type** has already been selected, it is recommended to migrate the selected **Recipient Type** to a dynamic distribution group.



Select the **Recipient Type** entry, e.g. **UserMailbox**, in the list and click **Migrate**.

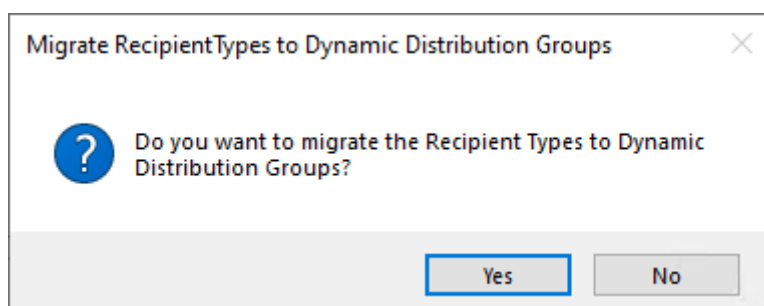
The **Migrate RecipientType selection to Dynamic Distribution Groups** dialog will open.

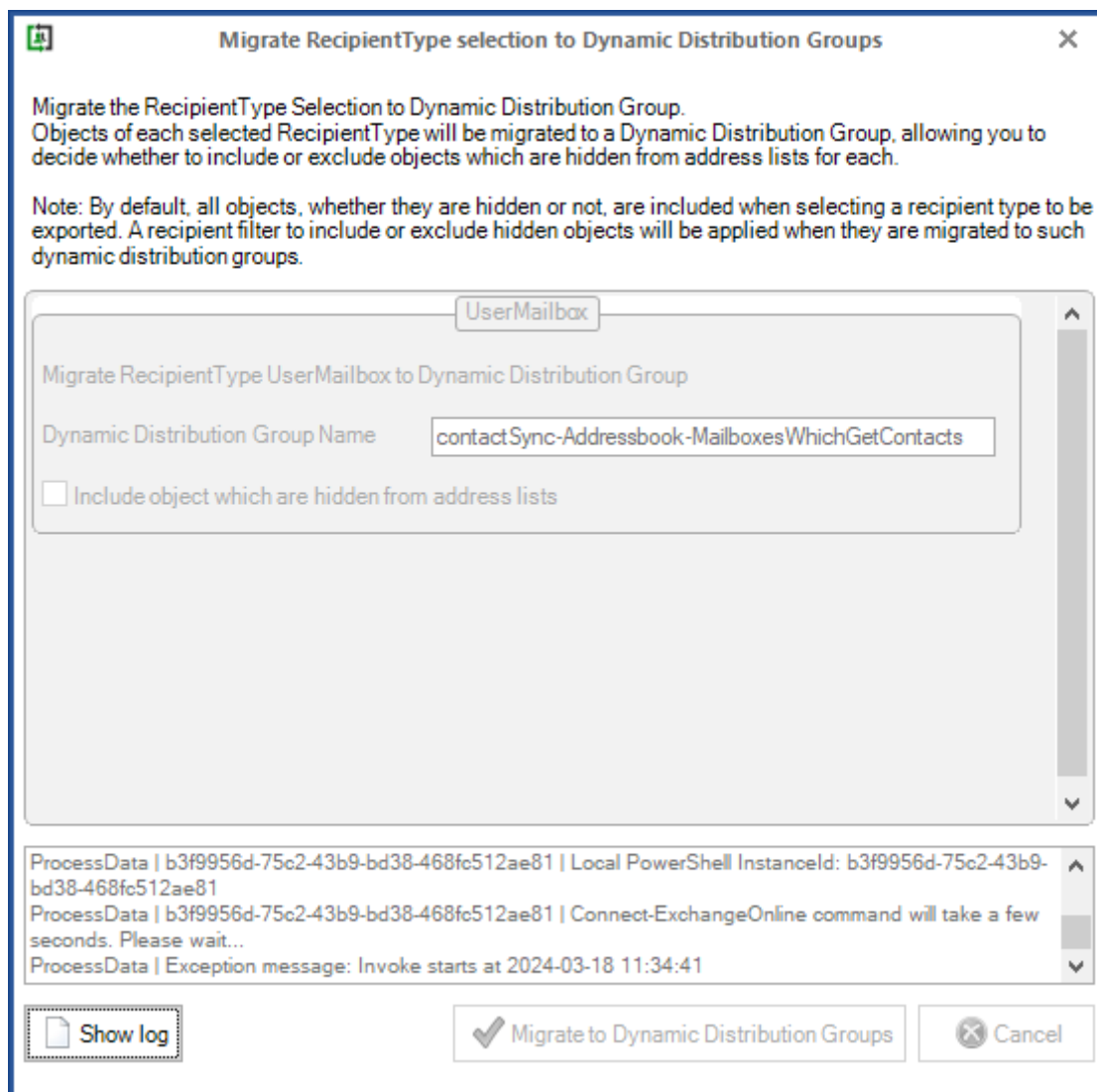


For each **Recipient Type** a dynamic distribution group will be created in Exchange Online.

The name of each dynamic distribution group must be unique in Exchange Online. The proposed name of the dynamic distribution group can be changed accordingly in the dialog before it is created in Exchange Online.

Click on **Migrate to Dynamic Distribution Groups**.



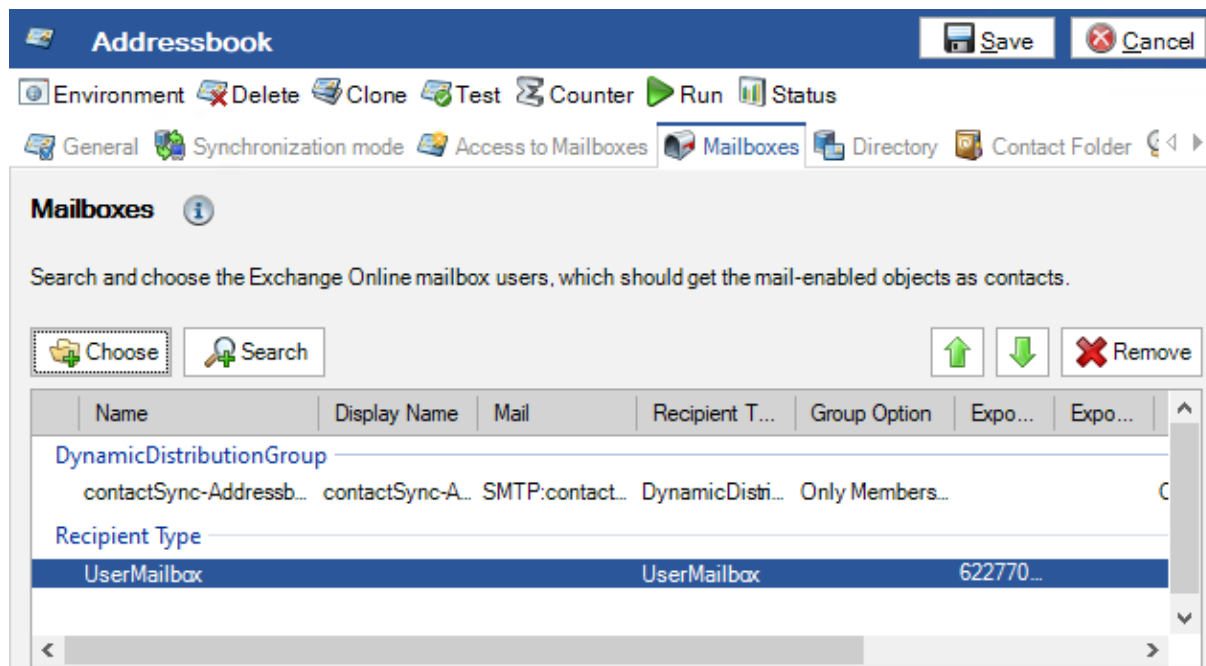


To create the dynamic distribution groups in Exchange Online, the **Exchange Online PowerShell** is used along with the settings from the **Environment Configuration**.

If the creation was successful, the dialog closes automatically.

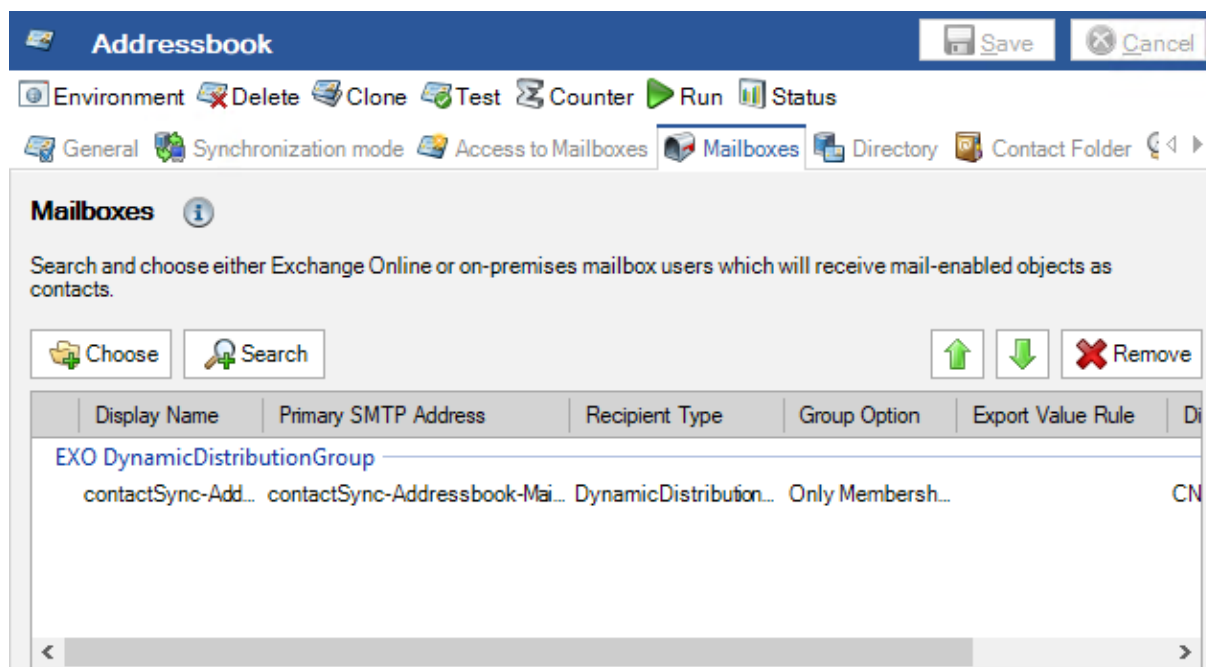
If an error occurs, the dialog remains open and the log file can be viewed by clicking on **Show log** in order to understand what did not work.

Once the dynamic distribution groups have been successfully created, the **Recipient Type** entries and the dynamic distribution group entries are displayed together until the policy is saved.



Please save the policy.

When the policy is saved, the migrated **Recipient Type** entries are removed from the list.



4. As of version 8.4, the access method **Full Access** to on-premises Exchange mailboxes has been deprecated and will not be supported for new policies any longer.

Old design of version 8.3

General Synchronization mode Access to Mailboxes Mailboxes Di < >

Access to Mailboxes

Access Method for on-premises Exchange mailboxes

☐ Use impersonation for access to mailboxes *i*

☒ Use full access for access to mailboxes ☐ with disabled EWS Throttling *i*

Only 1 count of concurrent mailboxes getting the contacts
e.g. 5 mailboxes concurrently *i*

Account for access of on-premises Exchange mailboxes

☒ Credentials of the on-premises service account *i*

☐ Credentials of a dedicated mailbox user *i*

User Name: *i*

Password: *i*

E-Mail Address: *i*

Exchange Web Services URL of on-premises Exchange

☒ Use Autodiscover to find Exchange Web Services URL

☐ Manual setting e.g. <https://casserver.domain.local/EWS/Exchange.asmx>

🔍

☒ Synchronize the contacts additionally into Exchange Online mailboxes *i*

Account for access of Exchange Online mailboxes

count of concurrent mailboxes getting the contacts
e.g. 5 mailboxes concurrently *i*

☒ Use the Environment Configuration settings *i*

☐ Credentials of a dedicated mailbox user hosted by Microsoft Azure public cloud *i*

User Name: *i*

E-Mail Address: *i*

Modern authentication OAuth 2.0 for Exchange Online *i*

My Azure Cloud Instance is hosted by:

i

Exchange Web Services URL of Exchange Online

i

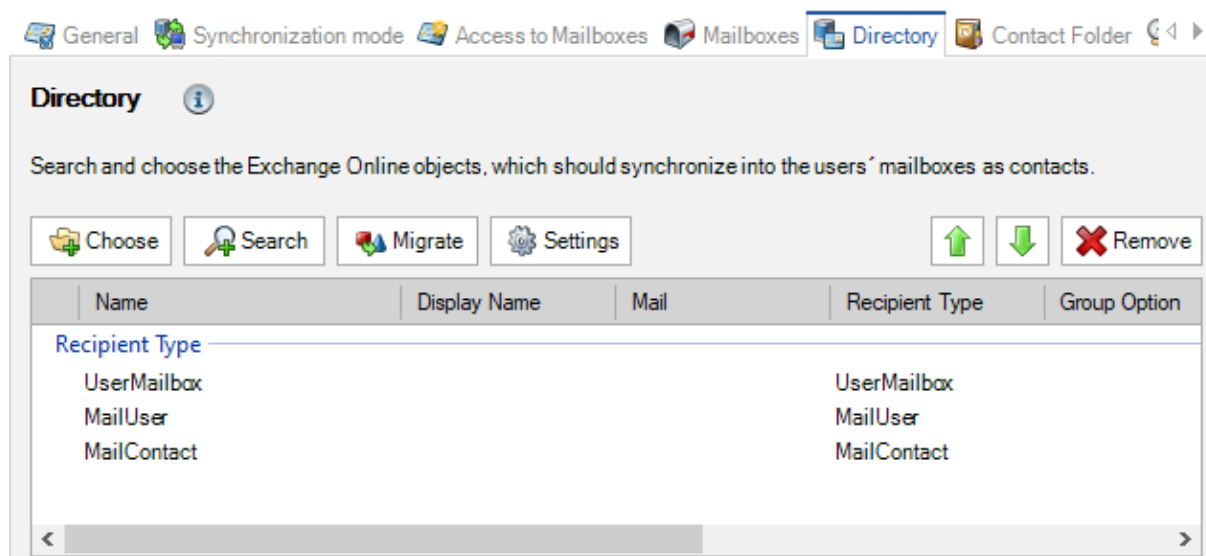
It is recommended to switch the access method to **Exchange Application Impersonation** for on-premises Exchange mailboxes. To access the mailboxes on your on-premises Exchange server, the contactSync service account needs to be a member of the Exchange **Application Impersonation** role to get access to the mailboxes to which the contacts are to be synchronized. Afterwards choose **Use impersonation for access to mailboxes** on the **Access to Mailboxes** tab to switch to **Exchange Application Impersonation** in the contactSync policy.

Please take a look at the chapter in the contactSync manual
How to configure Exchange Application Impersonation

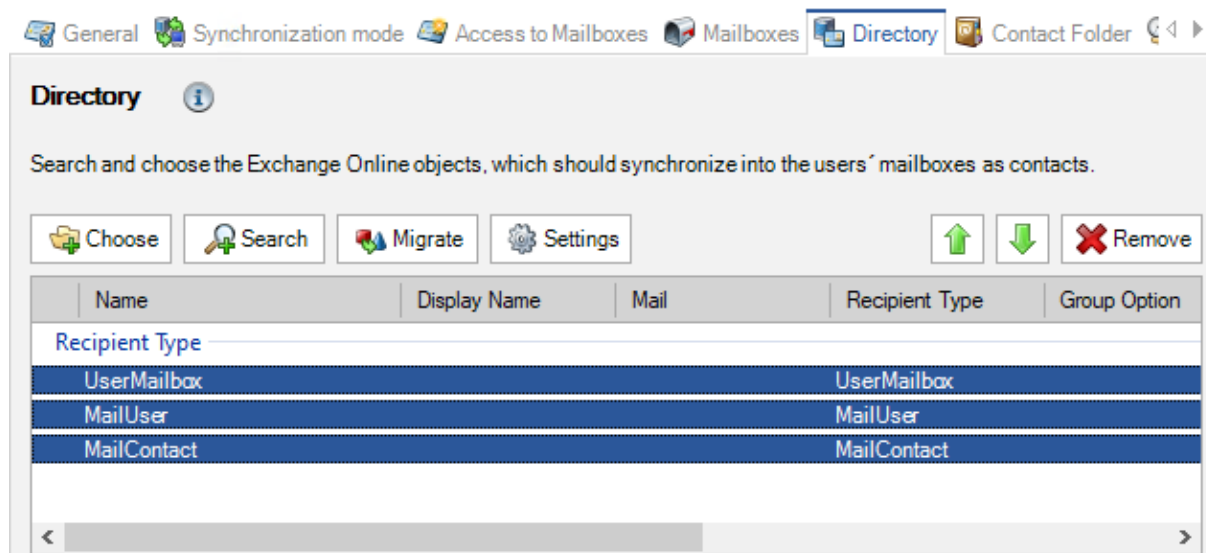
New design of version 8.4

5. As of version 8.4, it is possible to migrate a selected **Recipient Type** on the **Directory** tab of a contactSync policy to a dynamic distribution group.

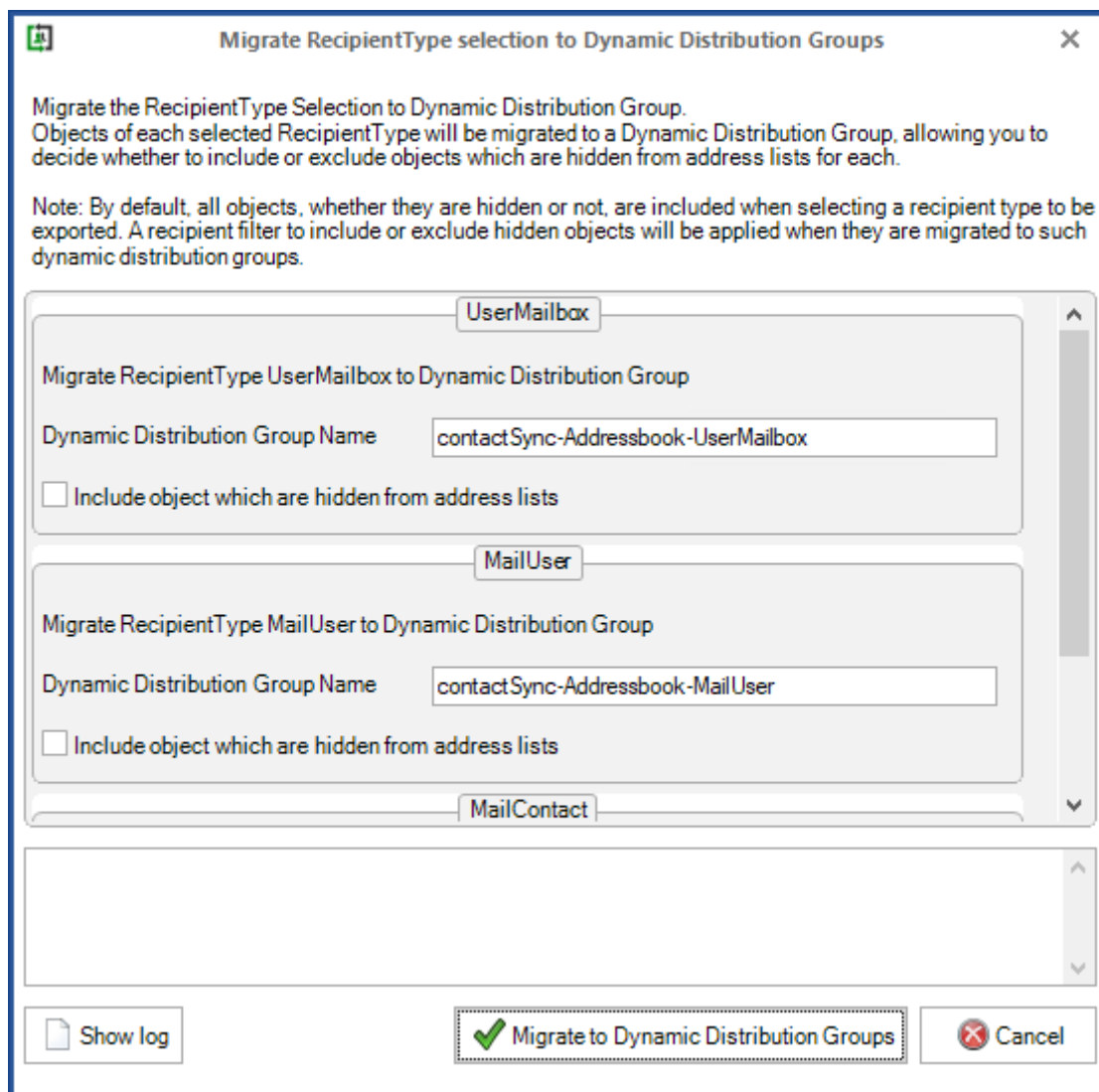
The selection by **Recipient Type** will be deprecated and is not recommended to use for configuration any longer. It is recommended to define the selection of objects to be synchronized by membership in a group. The group can be searched for in the **Search** dialog and only its members are synchronized as contacts with the group option **Only Membership**. This allows you to specify much more precisely which objects will actually be synchronized as contacts into the mailboxes.



Select one or multiple **Recipient Type** entries in the list and click **Migrate**.



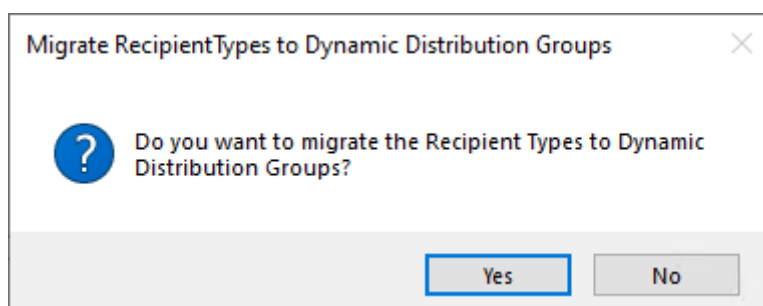
The **Migrate RecipientType selection to Dynamic Distribution Groups** dialog will open.




For each **Recipient Type** a dynamic distribution group will be created in Exchange Online.

The name of each dynamic distribution group must be unique in Exchange Online. The proposed name of the dynamic distribution group can be changed accordingly in the dialog before it is created in Exchange Online.

Click on **Migrate to Dynamic Distribution Groups**.





Migrate RecipientType selection to Dynamic Distribution Groups

×

Migrate the RecipientType Selection to Dynamic Distribution Group.

Objects of each selected RecipientType will be migrated to a Dynamic Distribution Group, allowing you to decide whether to include or exclude objects which are hidden from address lists for each.

Note: By default, all objects, whether they are hidden or not, are included when selecting a recipient type to be exported. A recipient filter to include or exclude hidden objects will be applied when they are migrated to such dynamic distribution groups.

MailUser

Migrate RecipientType MailUser to Dynamic Distribution Group

Dynamic Distribution Group Name

☐ Include object which are hidden from address lists

MailContact

Migrate RecipientType MailContact to Dynamic Distribution Group

Dynamic Distribution Group Name

☐ Include object which are hidden from address lists

ProcessData | e2353fd3-ffe5-408d-bd15-bceb5204101f | Local PowerShell InstanceId: e2353fd3-ffe5-408d-bd15-bceb5204101f

ProcessData | e2353fd3-ffe5-408d-bd15-bceb5204101f | Connect-ExchangeOnline command will take a few seconds. Please wait...

ProcessData | Exception message: Invoke starts at 2024-03-18 12:05:43

Show log

✓ Migrate to Dynamic Distribution Groups

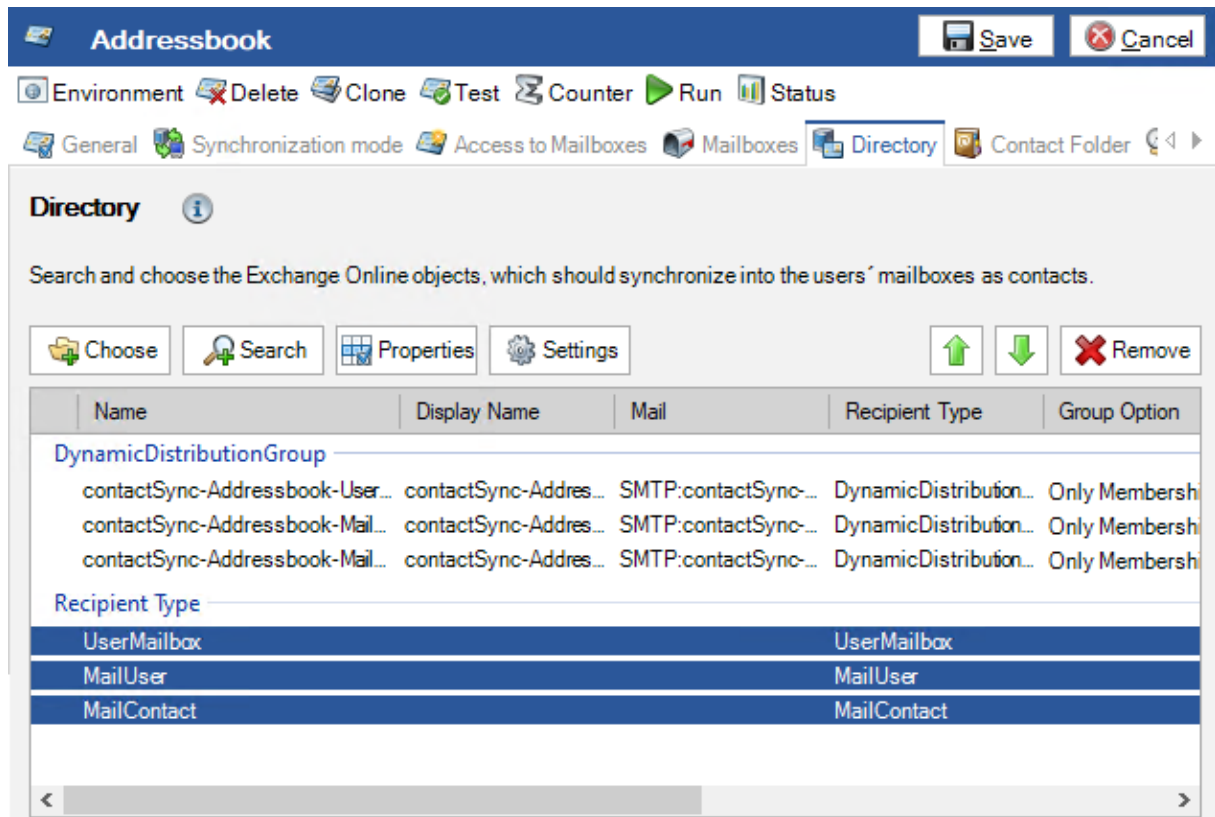
✕ Cancel

To create the dynamic distribution groups in Exchange Online, the **Exchange Online PowerShell** is used along with the settings from the **Environment Configuration**.

If the creation was successful, the dialog closes automatically.

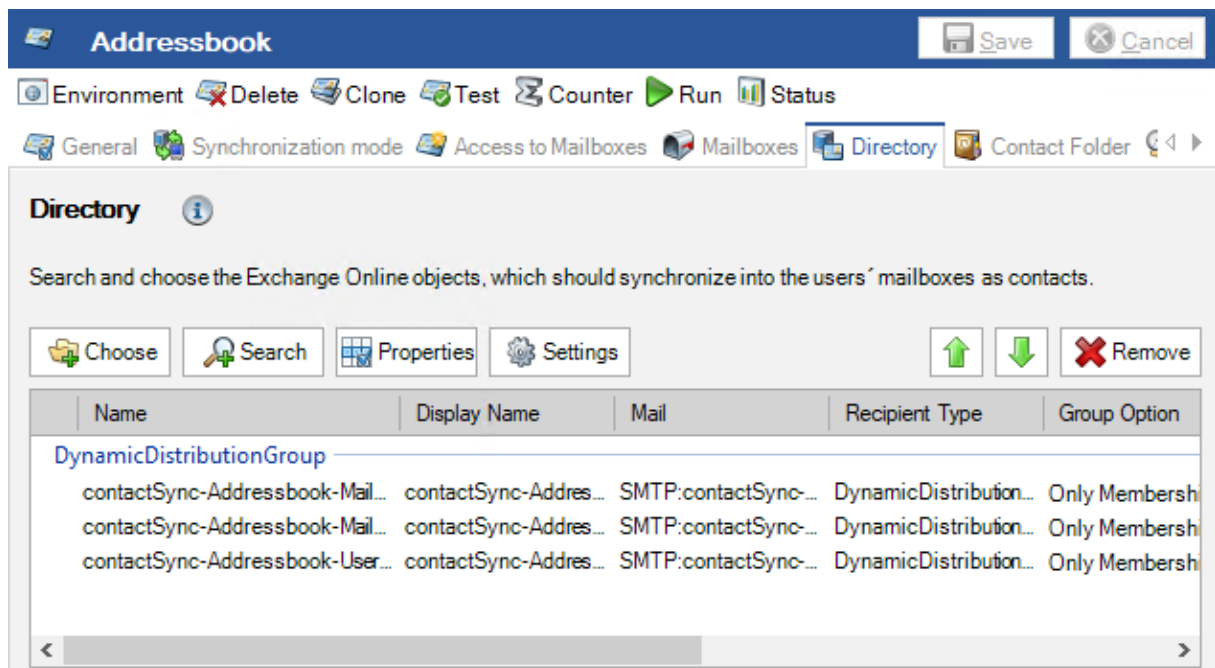
If an error occurs, the dialog remains open and the log file can be viewed by clicking on **Show log** in order to understand what did not work.

Once the dynamic distribution groups have been successfully created, the **Recipient Type** entries and the dynamic distribution group entries are displayed together until the policy is saved.



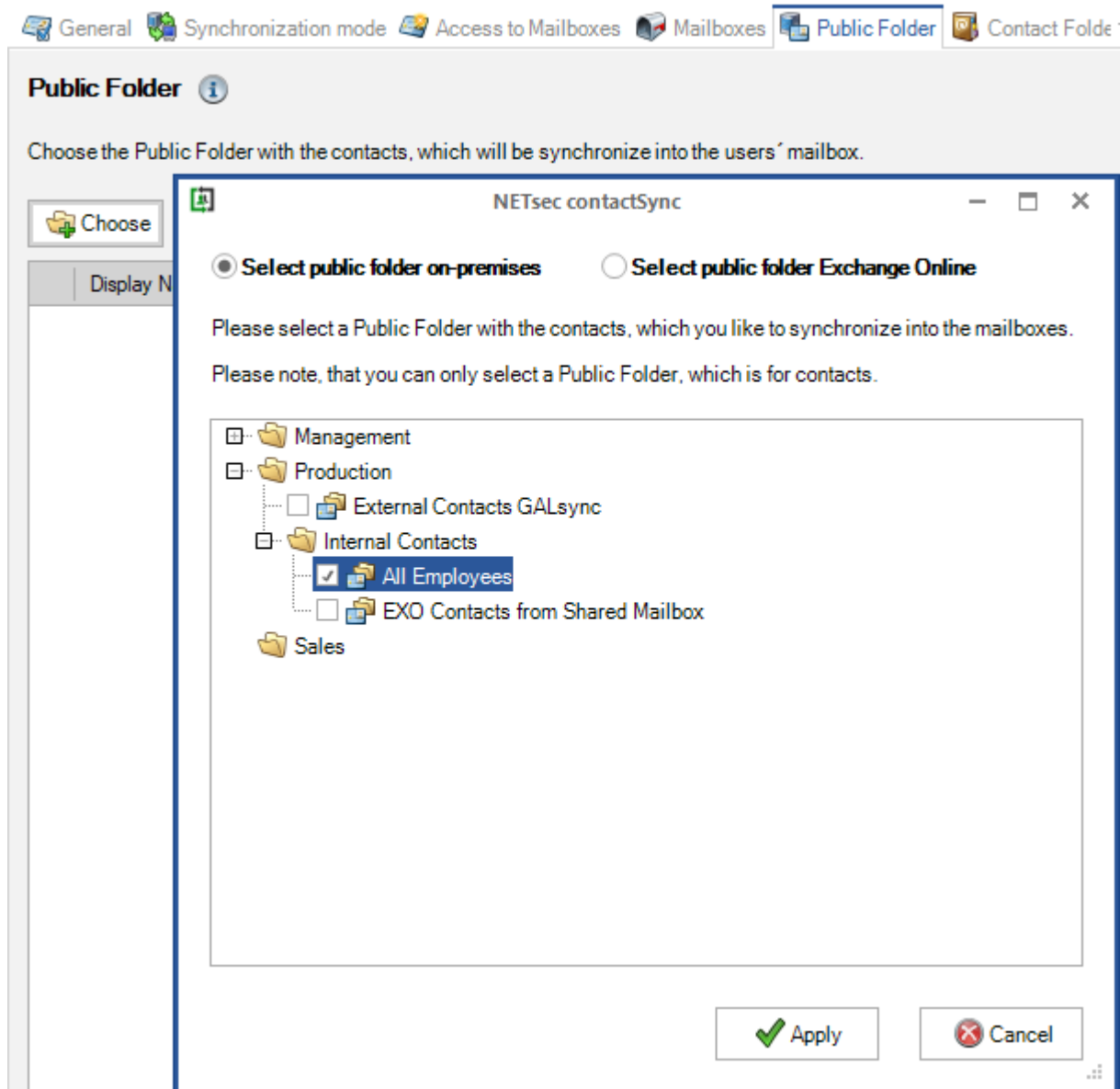
Please save the policy.

When the policy is saved, the migrated **Recipient Type** entries are removed from the list.



6. As of version 8.4, the contactSync policy to synchronize contacts from a Public Folder to mailboxes has been consolidated to one policy type.

The selection of the Public Folder, that contains the contacts, can be selected on-premises or Exchange Online for hybrid Exchange environments within the same policy.



Please note, the Exchange Web Services URL is required to access Public Folders.

For on-premises Public Folder, the Exchange Web Services URL for the on-premises Exchange Server must be set manually in the configuration or the mailbox of the contactSync service account must be located on the on-premises Exchange Server. The policy is cancelled if Autodiscover cannot detect the Exchange Web Services URL for the on-premises Exchange Server.

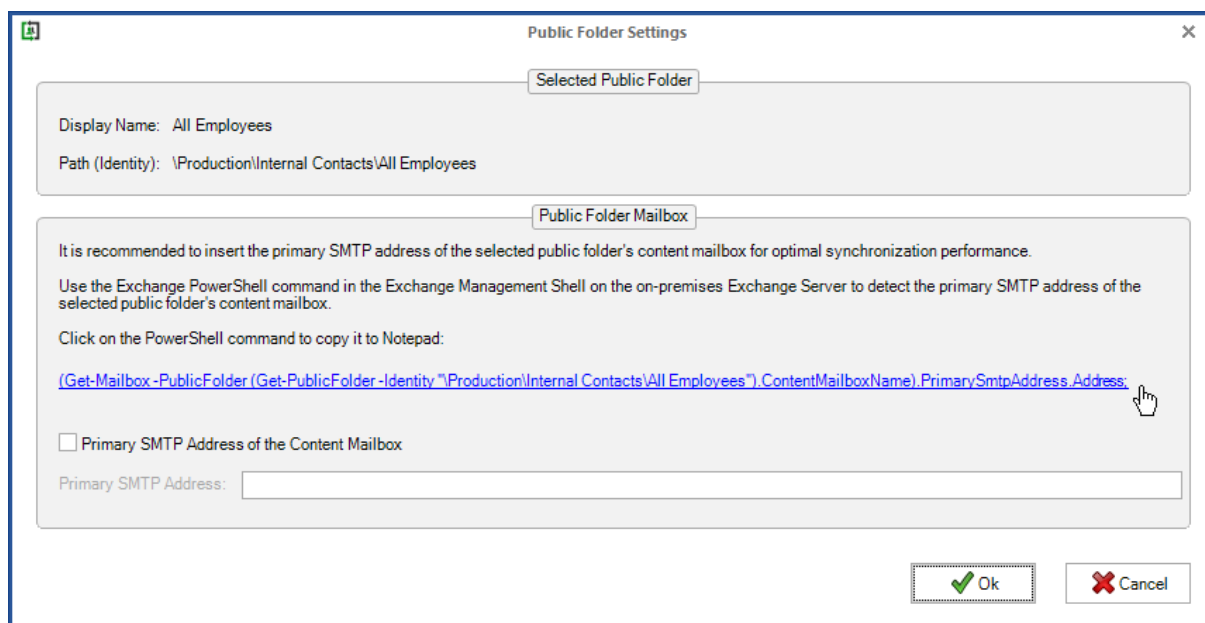
After clicking **Apply** the **Public Folder Settings** dialog will open. This will help to determine the primary SMTP address of the public folder. The determination procedure differs between a public folder that is located on-premises and a public folder that is located in Exchange Online.

Determine the primary SMTP address of the public folder located on-premises

Determine the primary SMTP address of the public folder located Exchange Online

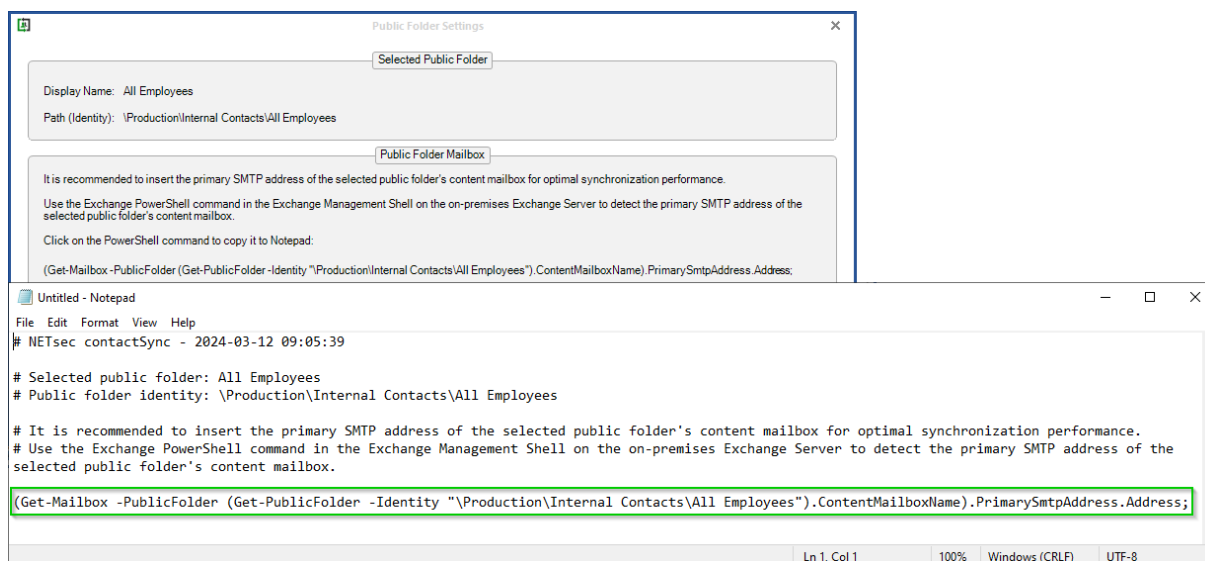
*Please do not confuse the **Public Folder Settings** dialog with the **contactSync Settings** dialog, which opens by clicking on the **Settings** button.*

Determine the primary SMTP address of the public folder located on-premises
The **Public Folder Settings** dialog opens.



contactSync needs the primary SMTP address of the selected public folder's content mailbox for optimal synchronization performance.

Click on the generated PowerShell command to copy it to Notepad.



Run the PowerShell command in the **Exchange Management Shell** on the on-premises Exchange Server to retrieve the primary SMTP address of the selected public folder's content mailbox.

```
Machine: DemoEx2019.NETSecDemo.Local

Welcome to the Exchange Management Shell!

Full list of cmdlets: Get-Command
Only Exchange cmdlets: Get-ExCommand
Cmdlets that match a specific string: Help *<string>*
Get general help: Help
Get help for a cmdlet: Help <cmdlet name> or <cmdlet name> -?
Exchange team blog: Get-ExBlog
Show full output for a command: <command> | Format-List

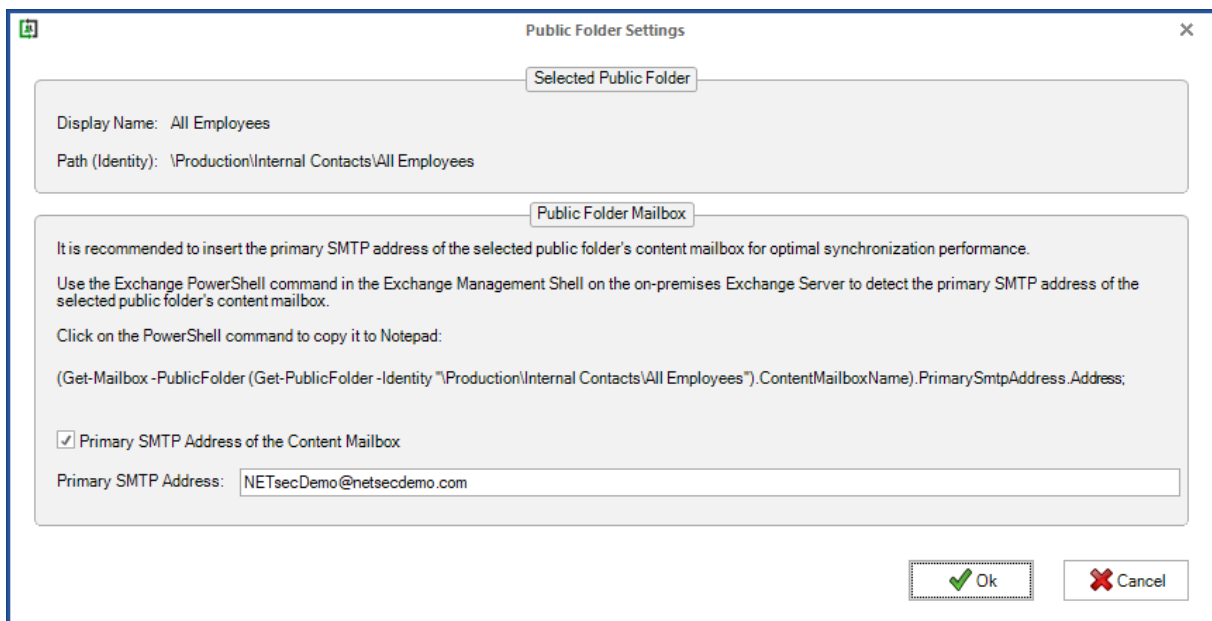
Show quick reference guide: QuickRef
VERBOSE: Connecting to DemoEx2019.NETSecDemo.Local.
VERBOSE: Connected to DemoEx2019.NETSecDemo.Local.

[PS] C:\Windows\system32>(Get-Mailbox -PublicFolder (Get-PublicFolder -Identity "\Production\Internal Contacts\All Employees").ContentMailboxName).PrimarySmtpAddress.Address;
NETSecDemo@netsecdemo.com
[PS] C:\Windows\system32>
```

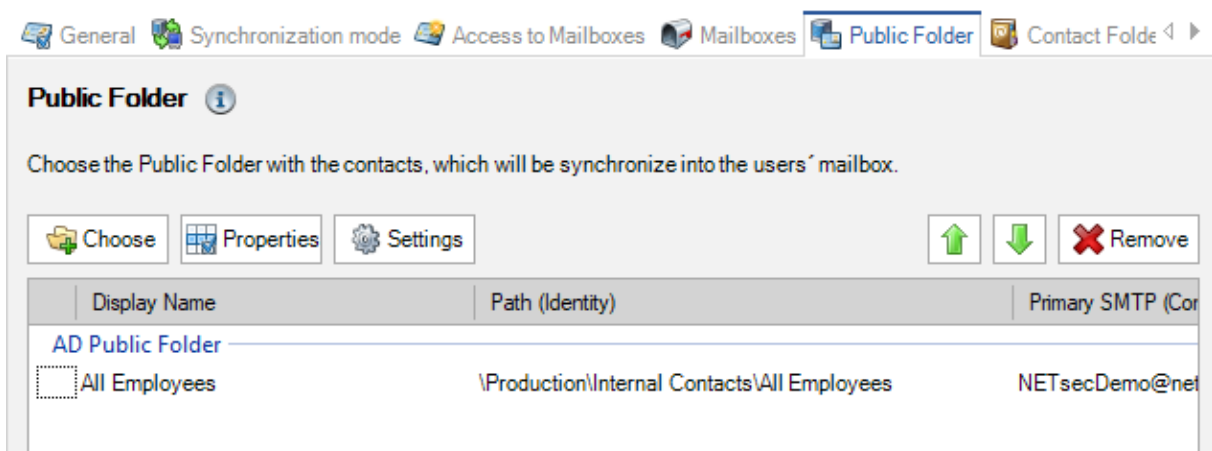
The result will be the primary SMTP address of the Public Folder mailbox.

Copy the primary SMTP address to insert it in the **Public Folder Settings** dialog.

Enable the option **Primary SMTP Address of the Content Mailbox** and insert the detected primary SMTP address of the selected public folder's content mailbox.



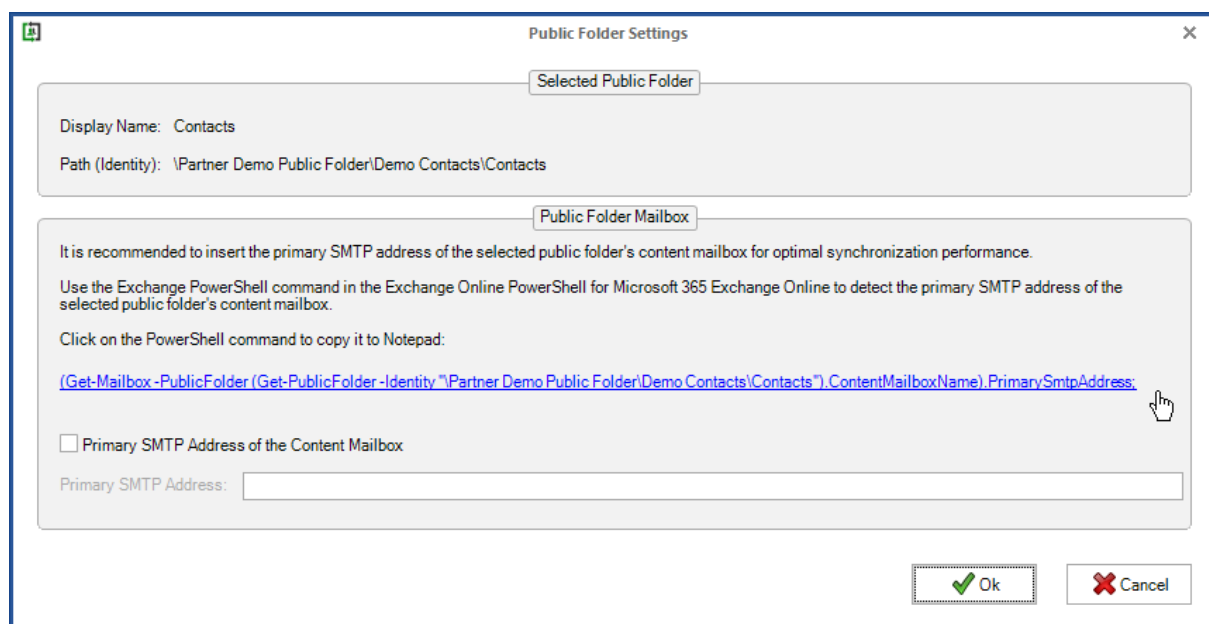
Click **Ok**.



Verify the selected public folder is displayed.

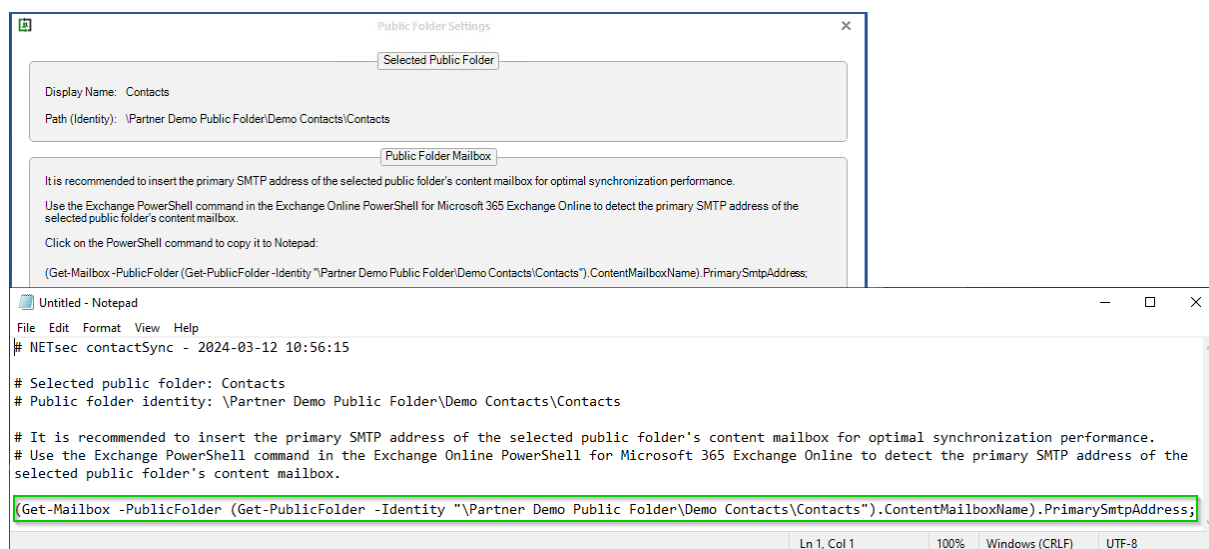
Determine the primary SMTP address of the public folder located Exchange Online

The **Public Folder Settings** dialog opens.



contactSync needs the primary SMTP address of the selected public folder's content mailbox for optimal synchronization performance.

Click on the generated PowerShell command to copy it to Notepad.



Run the PowerShell command in **Exchange Online PowerShell for Microsoft 365 Exchange Online** to retrieve the primary SMTP address of the selected public folder's content mailbox.

```
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Users\svc_contactSync> Connect-ExchangeOnline

-----
This V3 EXO PowerShell module contains new REST API backed Exchange Online cmdlets which doesn't require WinRM for Client-Server communication. You can now run these cmdlets after turning off WinRM Basic Auth in your client machine thus making it more secure.

Unlike the EXO* prefixed cmdlets, the cmdlets in this module support full functional parity with the RPS (V1) cmdlets.

V3 cmdlets in the downloaded module are resilient to transient failures, handling retries and throttling errors inherently.

REST backed EOP and SCC cmdlets are also available in the V3 module. Similar to EXO, the cmdlets can be run without WinRM basic auth enabled.

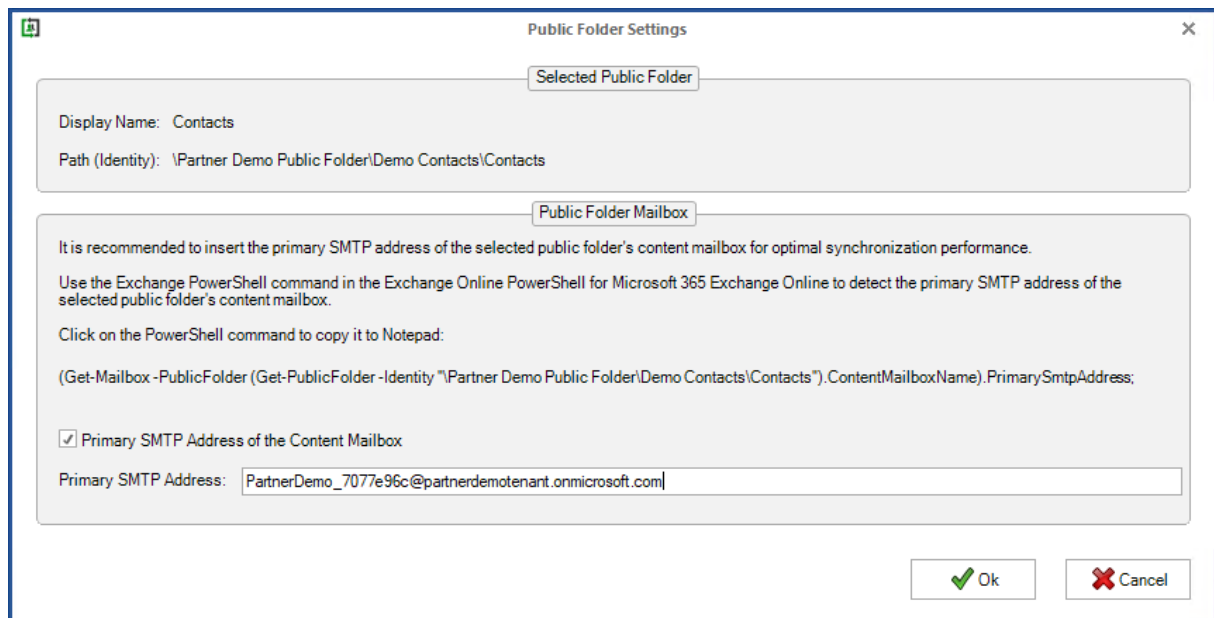
For more information check https://aka.ms/exov3-module
-----

PS C:\Users\svc_contactSync> (Get-Mailbox -PublicFolder (Get-PublicFolder -Identity "\Partner Demo Public Folder\Demo Contacts\Contacts").ContentMailboxName).PrimarySmtpAddress;
PartnerDemo_7077e96c@partnerdemotenant.onmicrosoft.com
PS C:\Users\svc_contactSync>
```

The result will be the primary SMTP address of the Public Folder mailbox.

Copy the primary SMTP address to insert it in the **Public Folder Settings** dialog.

Enable the option **Primary SMTP Address of the Content Mailbox** and insert the detected primary SMTP address of the selected public folder's content mailbox.

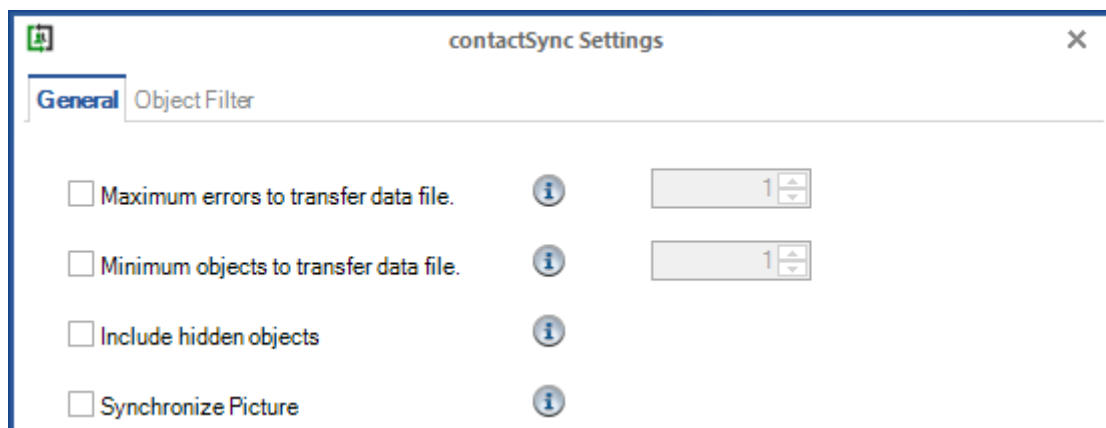
The image shows a 'Public Folder Settings' dialog box. It has two tabs: 'Selected Public Folder' and 'Public Folder Mailbox'. The 'Selected Public Folder' tab is active, showing 'Display Name: Contacts' and 'Path (Identity): \Partner Demo Public Folder\Demo Contacts\Contacts'. The 'Public Folder Mailbox' tab is also visible, containing instructions to use the PowerShell command to find the primary SMTP address. Below the instructions, there is a checkbox labeled 'Primary SMTP Address of the Content Mailbox' which is checked. A text field next to it contains the email address 'PartnerDemo_7077e96c@partnerdemotenant.onmicrosoft.com'. At the bottom right, there are 'Ok' and 'Cancel' buttons.

Click **OK**

Verify the selected public folder is displayed.

7. The contactSync Settings option **Include hidden objects** was renamed to **Synchronize objects hidden from address lists**. This will synchronize hidden objects from the address lists in an on-premises Exchange as contacts into mailboxes.

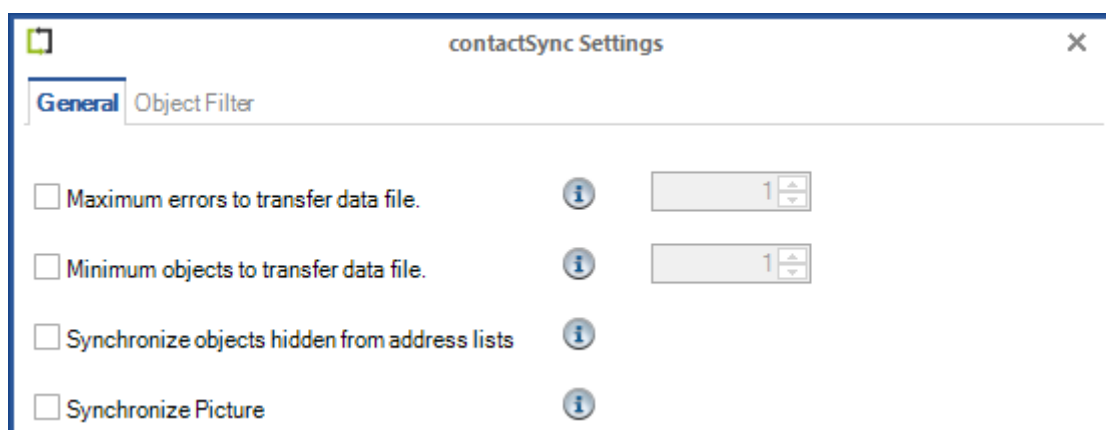
Old design of version 8.3



The screenshot shows the 'contactSync Settings' dialog box with the 'General' tab selected. The 'Object Filter' section is visible. There are four settings listed:

- ☐ Maximum errors to transfer data file. (Information icon) [1]
- ☐ Minimum objects to transfer data file. (Information icon) [1]
- ☐ Include hidden objects (Information icon)
- ☐ Synchronize Picture (Information icon)

New design of version 8.4



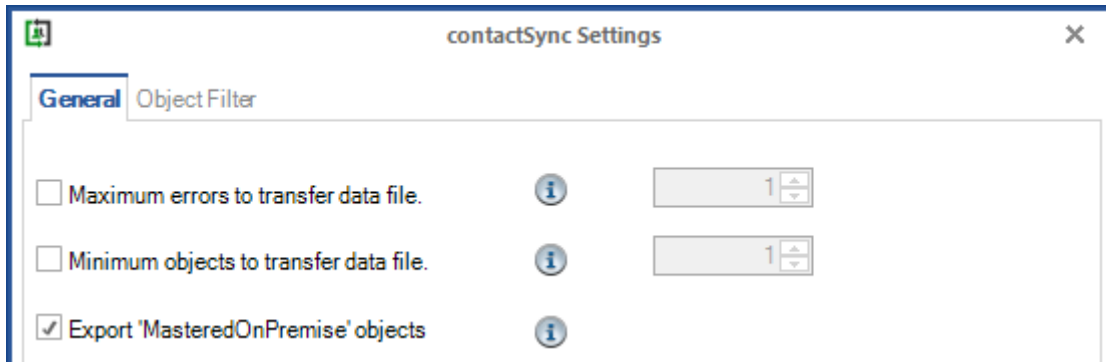
The screenshot shows the 'contactSync Settings' dialog box with the 'General' tab selected. The 'Object Filter' section is visible. There are four settings listed:

- ☐ Maximum errors to transfer data file. (Information icon) [1]
- ☐ Minimum objects to transfer data file. (Information icon) [1]
- ☐ Synchronize objects hidden from address lists (Information icon)
- ☐ Synchronize Picture (Information icon)

8. As of version 8.4, by default objects that are hidden from address lists are no longer synchronized from Exchange Online as contacts into mailboxes.

A new option has been added to the contactSync Settings **Synchronize objects hidden from address lists**. This will synchronize hidden objects from the address lists in Exchange Online as contacts into mailboxes.

Old design of version 8.3



contactSync Settings

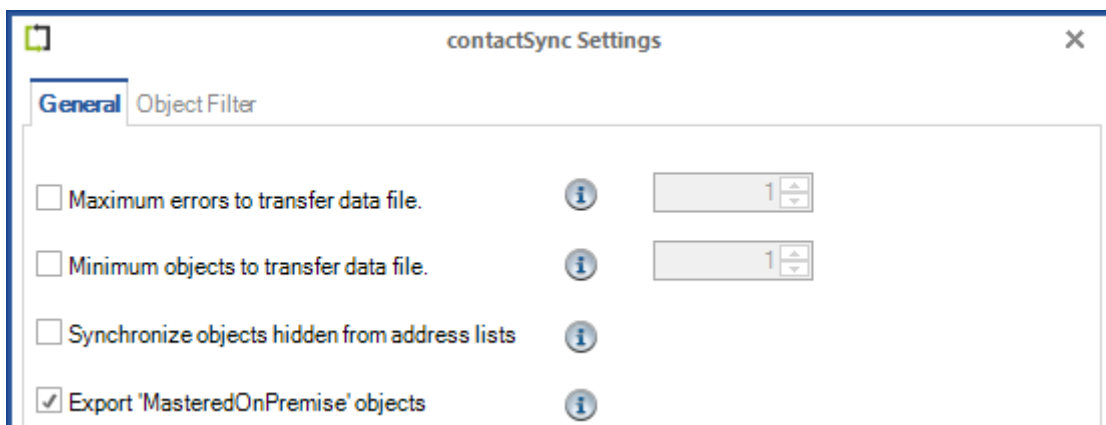
General Object Filter

☐ Maximum errors to transfer data file. ⓘ 1

☐ Minimum objects to transfer data file. ⓘ 1

☒ Export 'MasteredOnPremise' objects ⓘ

New design of version 8.4



contactSync Settings

General Object Filter

☐ Maximum errors to transfer data file. ⓘ 1

☐ Minimum objects to transfer data file. ⓘ 1

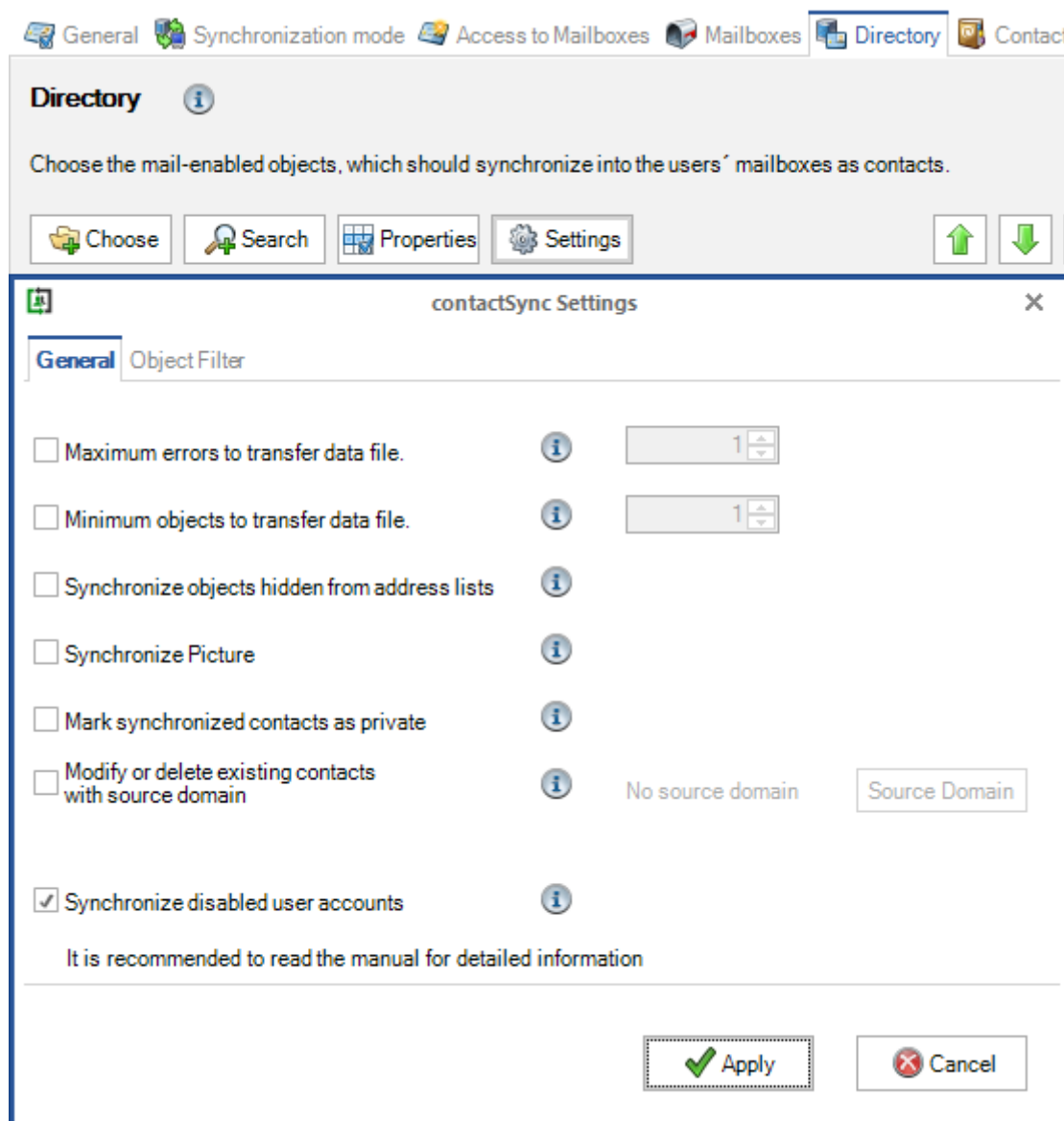
☐ Synchronize objects hidden from address lists ⓘ

☒ Export 'MasteredOnPremise' objects ⓘ

9. As of version 8.4.2, user account objects that are disabled are no longer synchronized as contacts from on-premises Active Directory into users' mailboxes by default.

Enable the **Synchronize disabled user accounts** option on the **General** tab of the **contactSync Settings** to also synchronize disabled user objects as contacts from on-premises.

In the event of an upgrade from a contactSync version 8.4.1 or earlier versions to the current contactSync version, the **Synchronize disabled user accounts** option is enabled in the existing policies, which synchronize objects from on-premises into users' mailboxes.



contactSync version 8.3 compared with contactSync 8.2.x

1. As of version 8.3, contactSync does not use Autodiscover to detect the Exchange Web Services URL for Exchange Online anymore, instead it uses the default Exchange Web Services URL for Exchange Online world-wide:

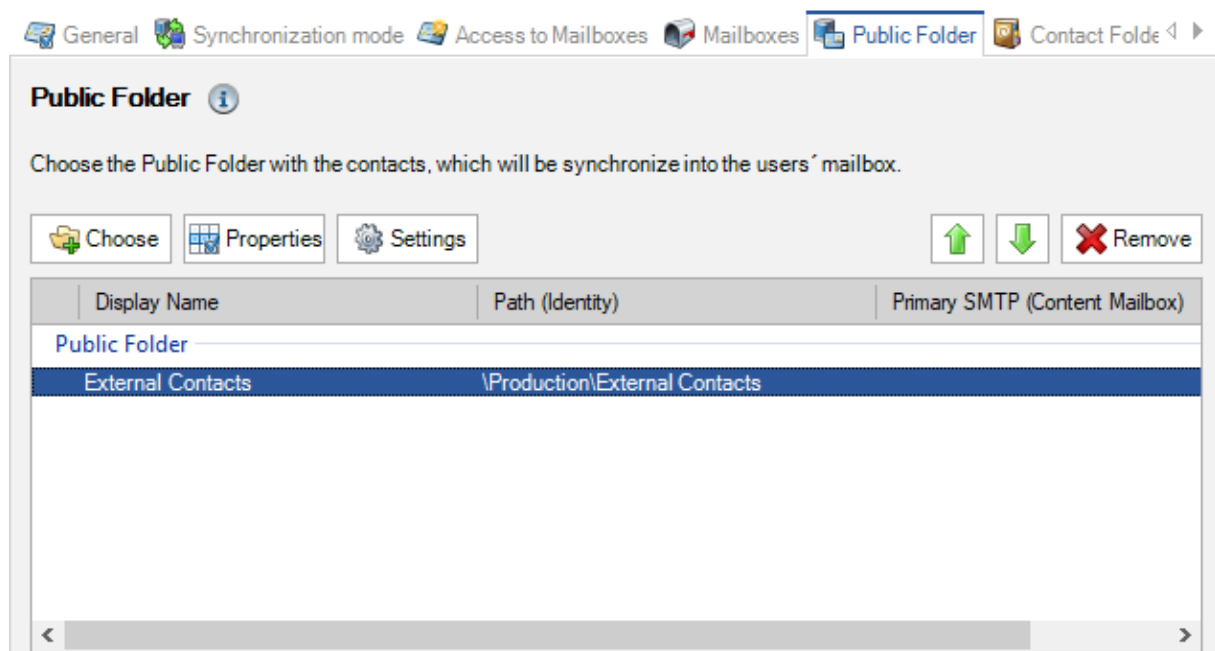
<https://outlook.office365.com/EWS/Exchange.asmx>

Otherwise please use the manual setting for the Exchange Web Services URL for Exchange Online.

2. As of version 8.3, contactSync does not support Exchange 2010 any longer.

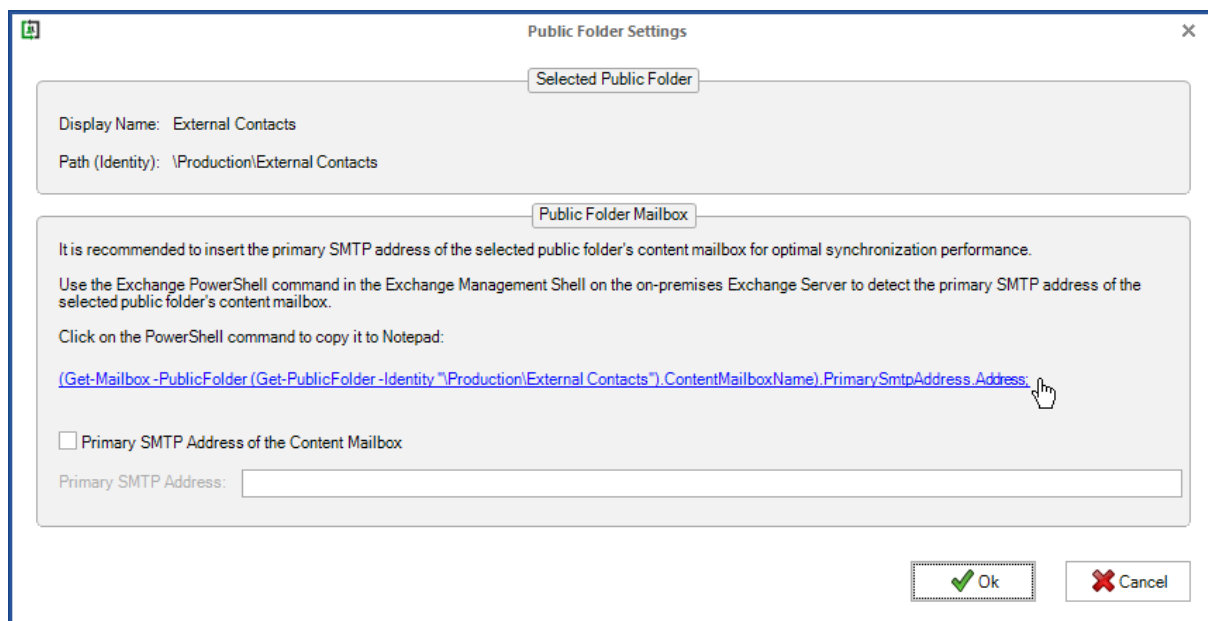
3. A policy to synchronize Public Folder contacts into mailboxes has an additional Public Folder Setting to insert the primary SMTP address of the content mailbox of the selected public folder, to gain optimal synchronization performance.

Public Folder tab of the public folder policy for on-premises Exchange.

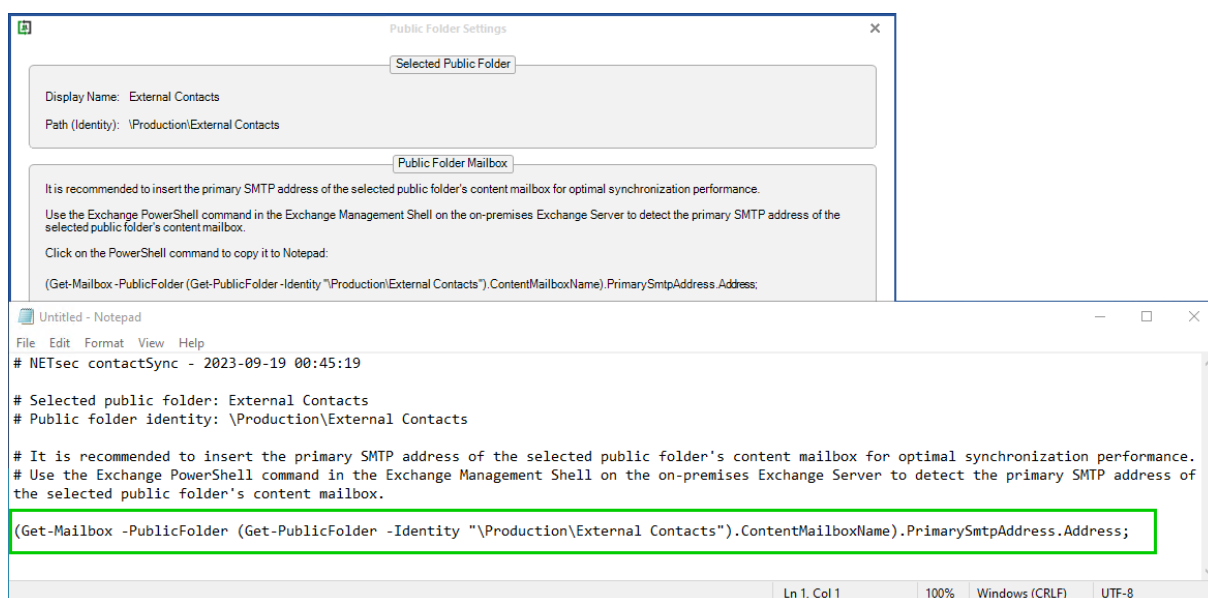


Double-click on the public folder entry to open the **Public Folder Settings** dialog.

*Please do not confuse the **Public Folder Settings** dialog with the **contactSync Settings** dialog, which opens by clicking on the **Settings** button.*



Click on the generated PowerShell command to copy it to Notepad.



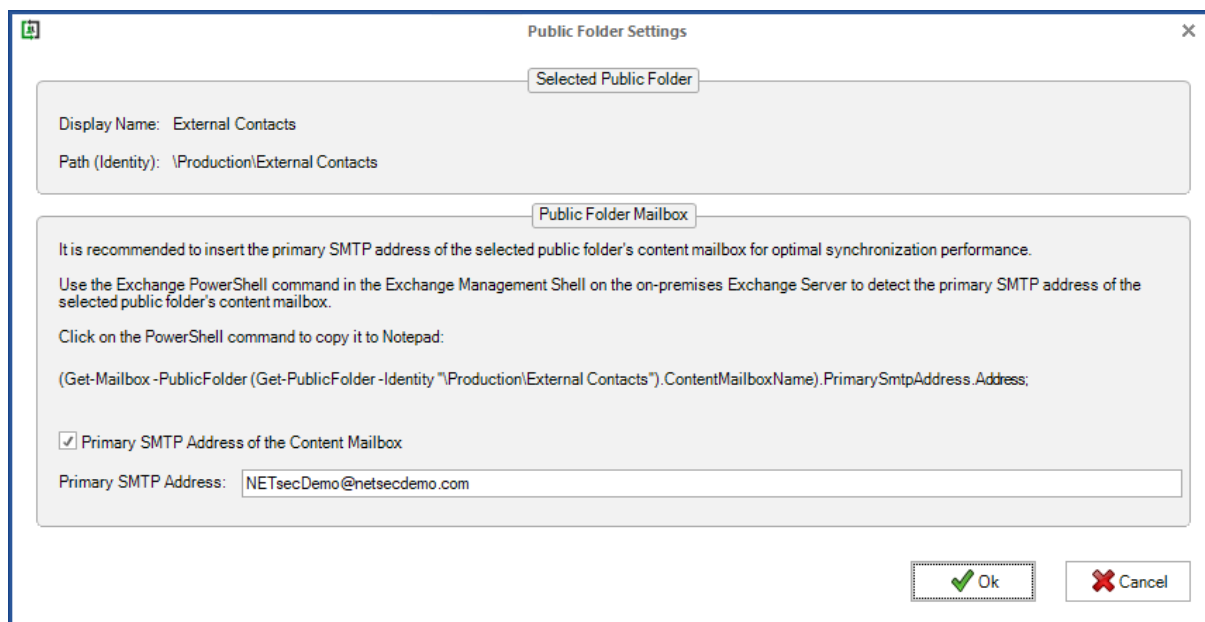
Run the PowerShell command in the **Exchange Management Shell** on the on-premises Exchange Server to retrieve the primary SMTP address of the selected public folder's content mailbox.



The result should be the primary SMTP address of the Public Folder mailbox.

Copy the primary SMTP address to insert it in the **Public Folder Settings** dialog.

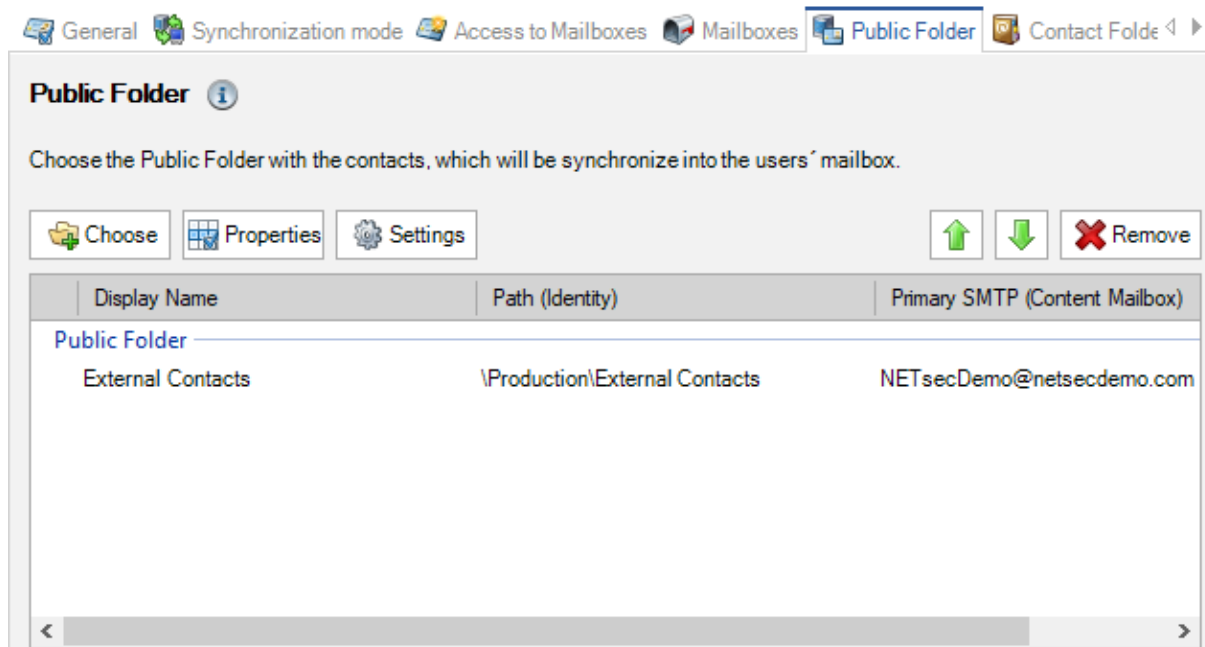
Enable the option **Primary SMTP Address of the content mailbox** and insert the detected primary SMTP address of the selected public folder's content mailbox.



The **Public Folder Settings** dialog box is shown. It has two tabs: **Selected Public Folder** and **Public Folder Mailbox**. The **Selected Public Folder** tab is active, showing the **Display Name** as "External Contacts" and the **Path (Identity)** as "\\Production\\External Contacts". The **Public Folder Mailbox** tab is also visible, containing instructions on how to find the primary SMTP address using PowerShell. Below the instructions, the checkbox **Primary SMTP Address of the Content Mailbox** is checked. The **Primary SMTP Address** field contains the text "NETsecDemo@netsecdemo.com". At the bottom right, there are **Ok** and **Cancel** buttons.

Next click **Ok**.

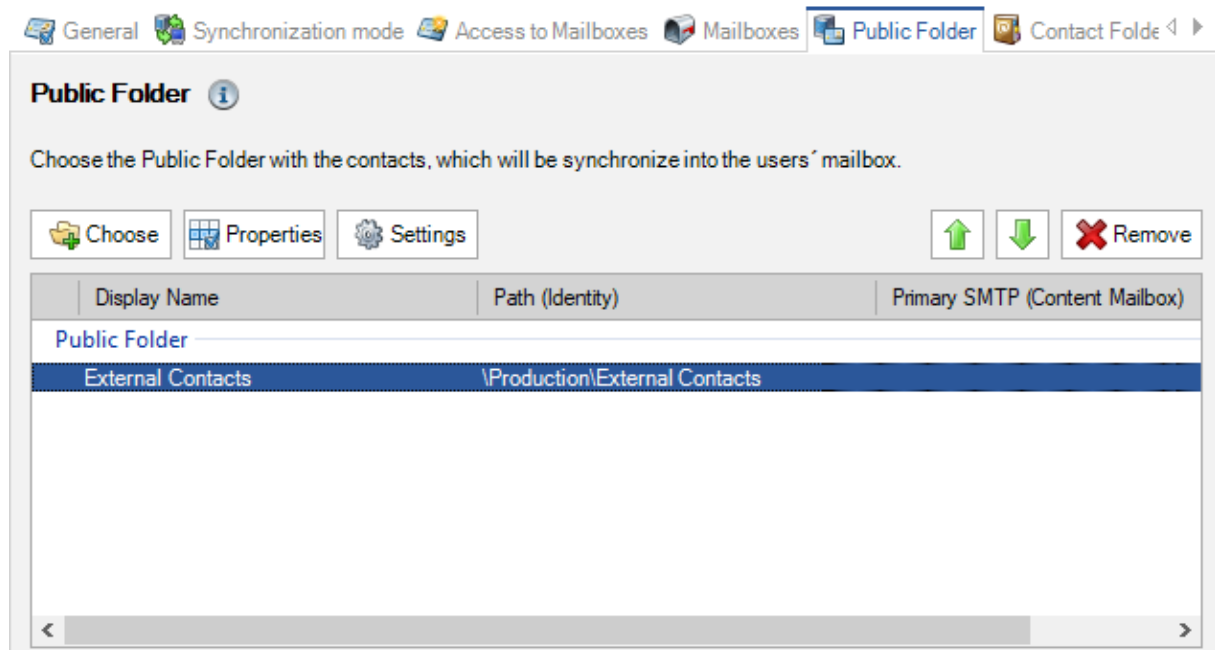
Verify the selected public folder is displayed.



The **Public Folder** tab is selected in the Exchange Management Console. The tab header shows "Public Folder" with an information icon. Below the header, a message states: "Choose the Public Folder with the contacts, which will be synchronize into the users' mailbox." There are three buttons: **Choose**, **Properties**, and **Settings**. To the right of these buttons are three icons: an up arrow, a down arrow, and a **Remove** button. Below these buttons is a table with three columns: **Display Name**, **Path (Identity)**, and **Primary SMTP (Content Mailbox)**. The table contains one row with the following data:

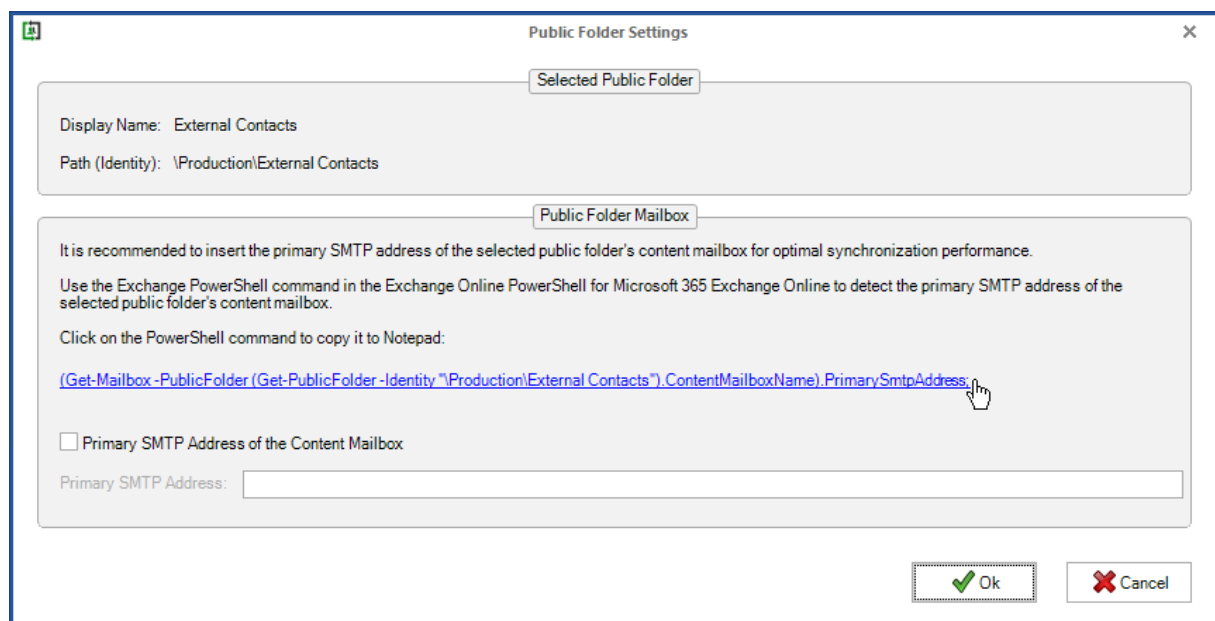
Display Name	Path (Identity)	Primary SMTP (Content Mailbox)
External Contacts	\\Production\\External Contacts	NETsecDemo@netsecdemo.com

Public Folder tab of the public folder policy for Exchange Online.

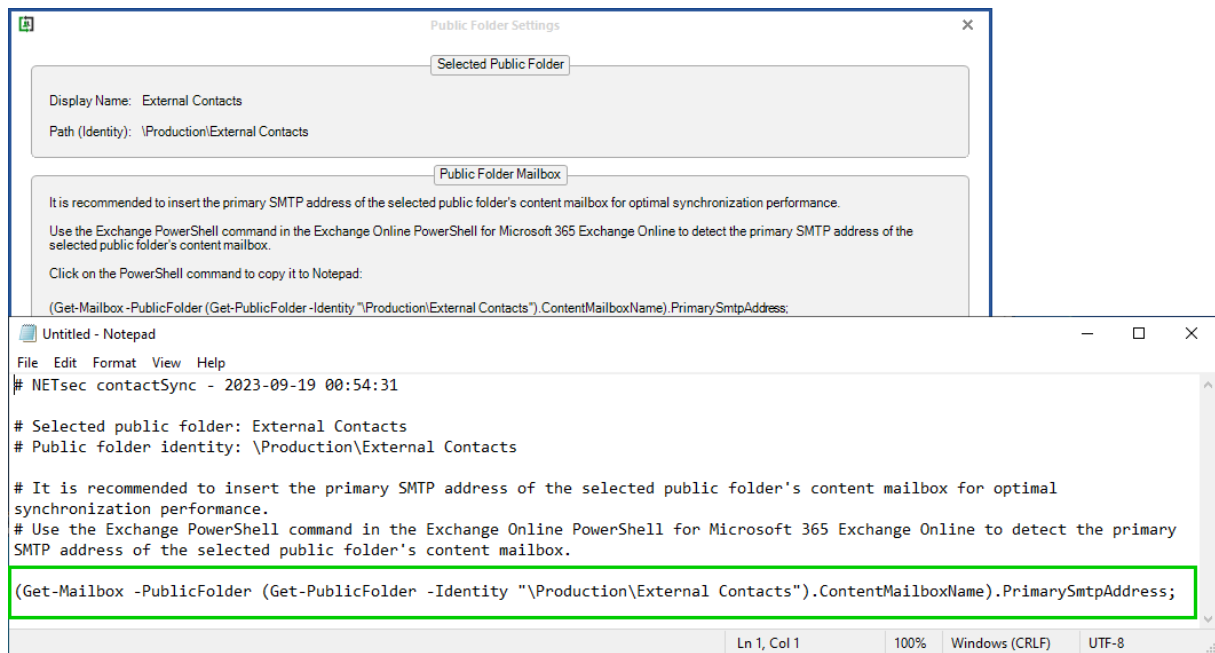


Double-click on the public folder entry to open the **Public Folder Settings** dialog.

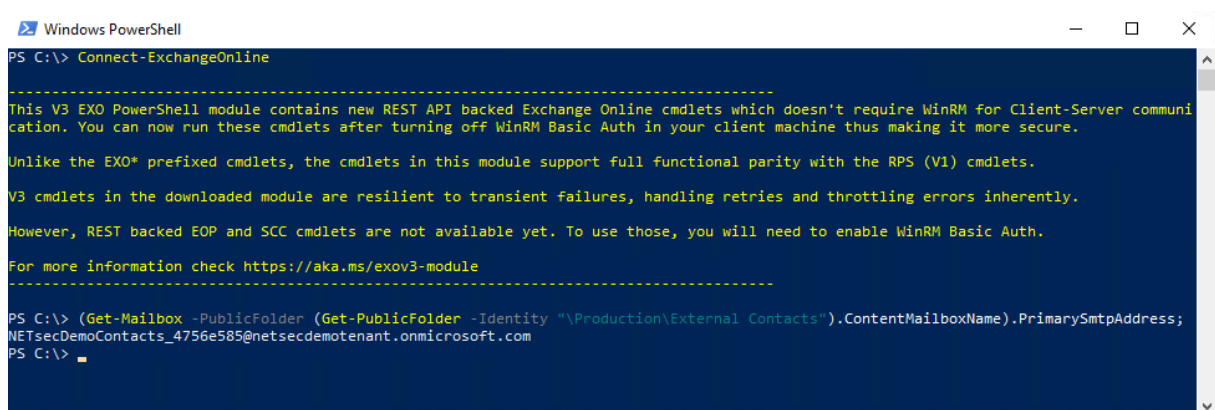
*Please do not confuse the **Public Folder Settings** dialog with the **contactSync Settings** dialog, which opens by clicking on the **Settings** button.*



Click on the generated PowerShell command to copy it to Notepad.



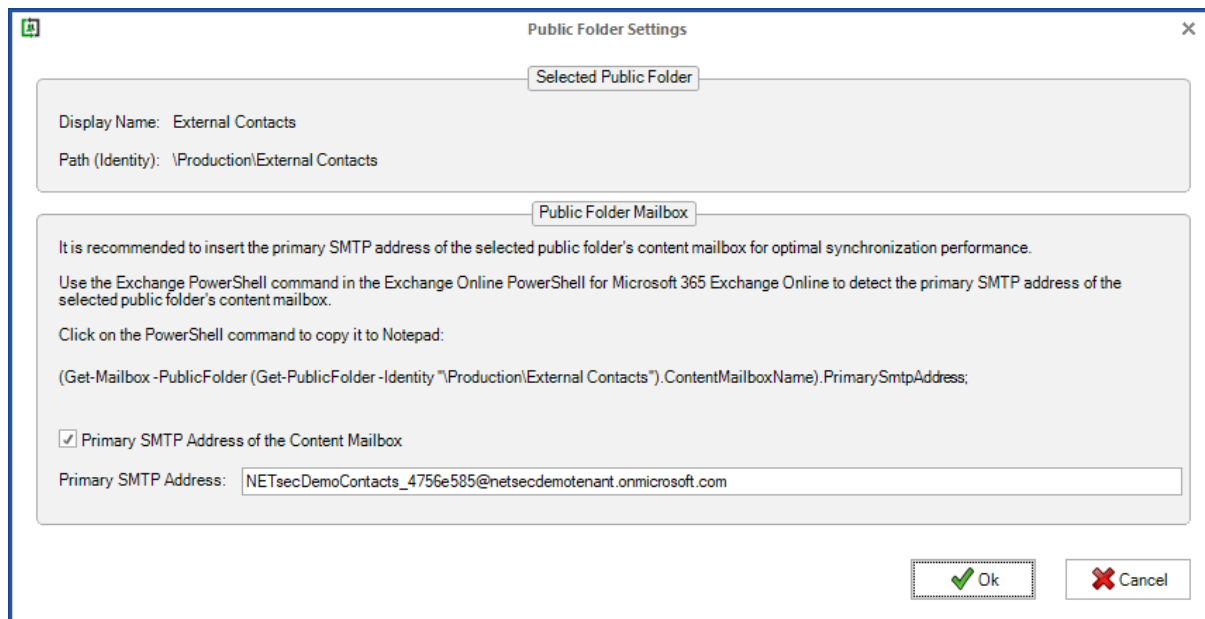
Run the PowerShell command in the **Exchange Online PowerShell** for the **Microsoft 365 Exchange Online** to retrieve the primary SMTP address of the selected public folder's content mailbox.



The result should be the primary SMTP address of the Public Folder mailbox.

Copy the primary SMTP address to insert it in the **Public Folder Settings** dialog.

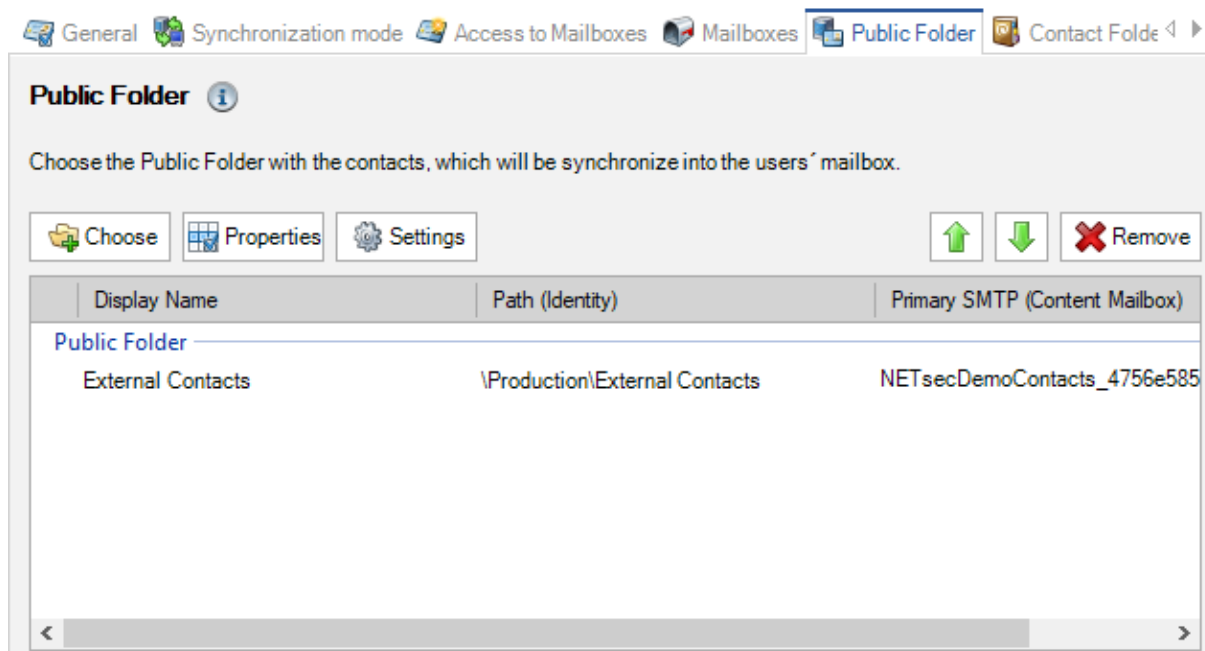
Enable the option **Primary SMTP Address of the content mailbox** and insert the detected primary SMTP address of the selected public folder's content mailbox.



The image shows the 'Public Folder Settings' dialog box. It has two tabs: 'Selected Public Folder' and 'Public Folder Mailbox'. The 'Selected Public Folder' tab is active, showing 'Display Name: External Contacts' and 'Path (Identity): \Production\External Contacts'. The 'Public Folder Mailbox' tab is also visible, containing instructions on how to find the primary SMTP address using PowerShell. Below the instructions, there is a checkbox labeled 'Primary SMTP Address of the Content Mailbox' which is checked. Below the checkbox, there is a text field labeled 'Primary SMTP Address:' containing the value 'NETsecDemoContacts_4756e585@netsecdemotenant.onmicrosoft.com'. At the bottom right, there are 'Ok' and 'Cancel' buttons.

Next click **Ok**.

Verify the selected public folder is displayed.



The image shows the 'Public Folder' selection window. It has a tabbed interface with 'General', 'Synchronization mode', 'Access to Mailboxes', 'Mailboxes', 'Public Folder', and 'Contact Folders'. The 'Public Folder' tab is active. Below the tabs, there is a message: 'Choose the Public Folder with the contacts, which will be synchronize into the users' mailbox.' Below this message, there are three buttons: 'Choose', 'Properties', and 'Settings'. To the right of these buttons are three more buttons: an up arrow, a down arrow, and a 'Remove' button. Below these buttons is a table with three columns: 'Display Name', 'Path (Identity)', and 'Primary SMTP (Content Mailbox)'. The table contains one row with the following data: 'External Contacts', '\Production\External Contacts', and 'NETsecDemoContacts_4756e585'. At the bottom of the window, there is a scrollbar.

Display Name	Path (Identity)	Primary SMTP (Content Mailbox)
External Contacts	\Production\External Contacts	NETsecDemoContacts_4756e585

contactSync version 8.2 compared with contactSync 8.1.x

1. As of version 8.2, contactSync requires **Windows PowerShell 5.1** and **ExchangeOnlineManagement PowerShell module version 3.1 or later** for **Exchange Online PowerShell V3**.

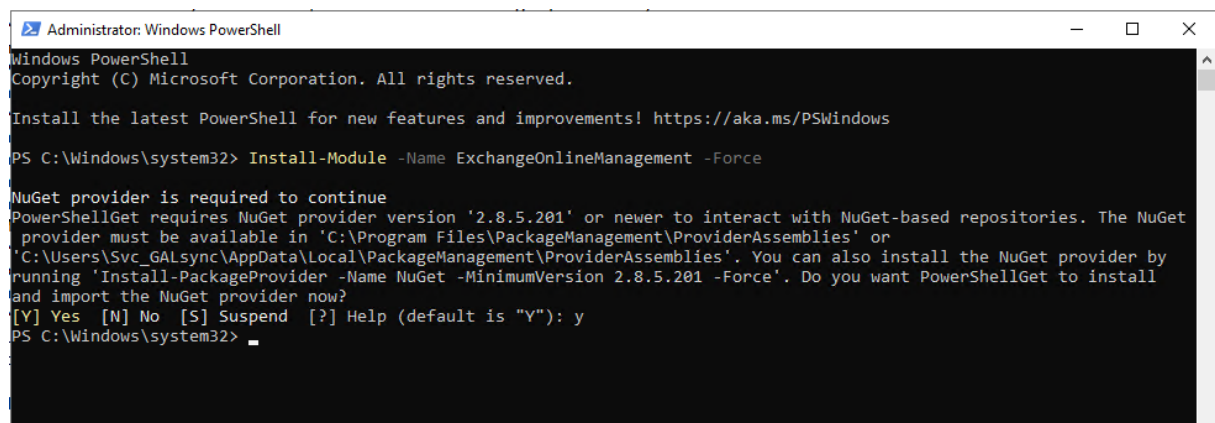
The **ExchangeOnlineManagement PowerShell module** needs to be installed or updated on the contactSync Server, so contactSync can directly communicate with an Office 365 Exchange Online tenant.

Install ExchangeOnlineManagement PowerShell module

On the contactSync Server, open **Windows PowerShell** as **Administrator**, then run the following to install:

```
Install-Module -Name ExchangeOnlineManagement -Force
```

When prompted, enter **Y** for Yes then Return



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32> Install-Module -Name ExchangeOnlineManagement -Force

NuGet provider is required to continue
PowerShellGet requires NuGet provider version '2.8.5.201' or newer to interact with NuGet-based repositories. The NuGet
provider must be available in 'C:\Program Files\PackageManagement\ProviderAssemblies' or
'C:\Users\Svc_GALsync\AppData\Local\PackageManagement\ProviderAssemblies'. You can also install the NuGet provider by
running 'Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201 -Force'. Do you want PowerShellGet to install
and import the NuGet provider now?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y
PS C:\Windows\system32>
```

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter of the **Microsoft Docs: About the Exchange Online PowerShell module**

<https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#install-the-exchange-online-powershell-module>

Update ExchangeOnlineManagement PowerShell module

On the contactSync Server, open **Windows PowerShell** as **Administrator**, then run the following to update:

```
Update-Module -Name ExchangeOnlineManagement -Force
```

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter of the **Microsoft Docs: About the Exchange Online PowerShell module**

<https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#update-the-exchange-online-powershell-module>

2. As of version 8.2, the **Modify or delete existing contacts with source domain** option in the **contactSync Settings** is redesigned.

Old design of version 8.1

contactSync Settings

General Object Filter

☐ Maximum errors to transfer data file. ⓘ 1

☐ Minimum objects to transfer data file. ⓘ 1

☐ Include hidden objects ⓘ

☐ Synchronize Picture ⓘ

☐ Mark synchronized contacts as private ⓘ

☐ Modify or delete existing contacts with source domain ⓘ

It is recommended to read the manual for detailed information

Apply Cancel

Example of configuration with an old source domain:

☒ Modify or delete existing contacts with source domain ⓘ DC=forestB,DC=com

New design of version 8.2

The screenshot shows the 'contactSync Settings' dialog box with the 'General' tab selected. The 'Object Filter' sub-tab is also visible. The settings are as follows:

- ☐ Maximum errors to transfer data file. (Information icon) [1]
- ☐ Minimum objects to transfer data file. (Information icon) [1]
- ☐ Include hidden objects (Information icon)
- ☐ Synchronize Picture (Information icon)
- ☐ Mark synchronized contacts as private (Information icon)
- ☐ Modify or delete existing contacts with source domain (Information icon) [No source domain] [Source Domain]

It is recommended to read the manual for detailed information

[Apply] [Cancel]

Example of configuration with an old source domain:

This block shows a close-up of the 'Modify or delete existing contacts with source domain' option, which is checked. It includes an information icon, the text 'No source domain', and a 'Source Domain' button.

Enable the **Modify or delete existing contacts with source domain** option and click the **Source Domain** button to open the dialog to manage the old source domains.

The **Old Source Domain** dialog to manage the old source domain values.

contactSync - Old Source Domains

After migrating objects, the source domain may change.
For example, objects were exported from an on-premises Exchange, migrated to Exchange Online and are now to be synchronized from Exchange Online to the mailboxes without their email address having changed.

This option additionally allows to modify and delete the corresponding synchronized contacts in the mailbox, which are still marked with the old source domain.

Please use the notation of the on-premises Active Directory domain (e.g. dc=company,dc=local) or the notation of the domain name of the Microsoft 365 Exchange Online tenant (e.g. company.onmicrosoft.com)

or the notation 'folderid=<Folder Id>' or 'folder id: <Folder Id>' for the folder id of the old Public Folder or Shared Mailbox (e.g. folderid=AQEuAAADGkRzkKpmEc2byqACEWgMAduzr2hZ6egBDm3yfl4AAAM)

Source Domain

+

 Add

✎

 Modify

✖

 Remove

Old Source Domain

✓

 Apply

✖

 Cancel

Insert the old source domain value and add it to the **Old Source Domain** list.

Source Domain

DC=forestB,DC= com

+

 Add

✎

 Modify

✖

 Remove

Old Source Domain

Source Domain

Add

Modify

Remove

Old Source Domain	
DC=forestB,DC=com	

Please note, the source domain syntax `company.onmicrosoft.com` will be added as `DC=company,DC=onmicrosoft,DC=com` to the **Old Source Domain List**.

Source Domain

company.onmicrosoft.com

Add

Modify

Remove

Old Source Domain	

Source Domain

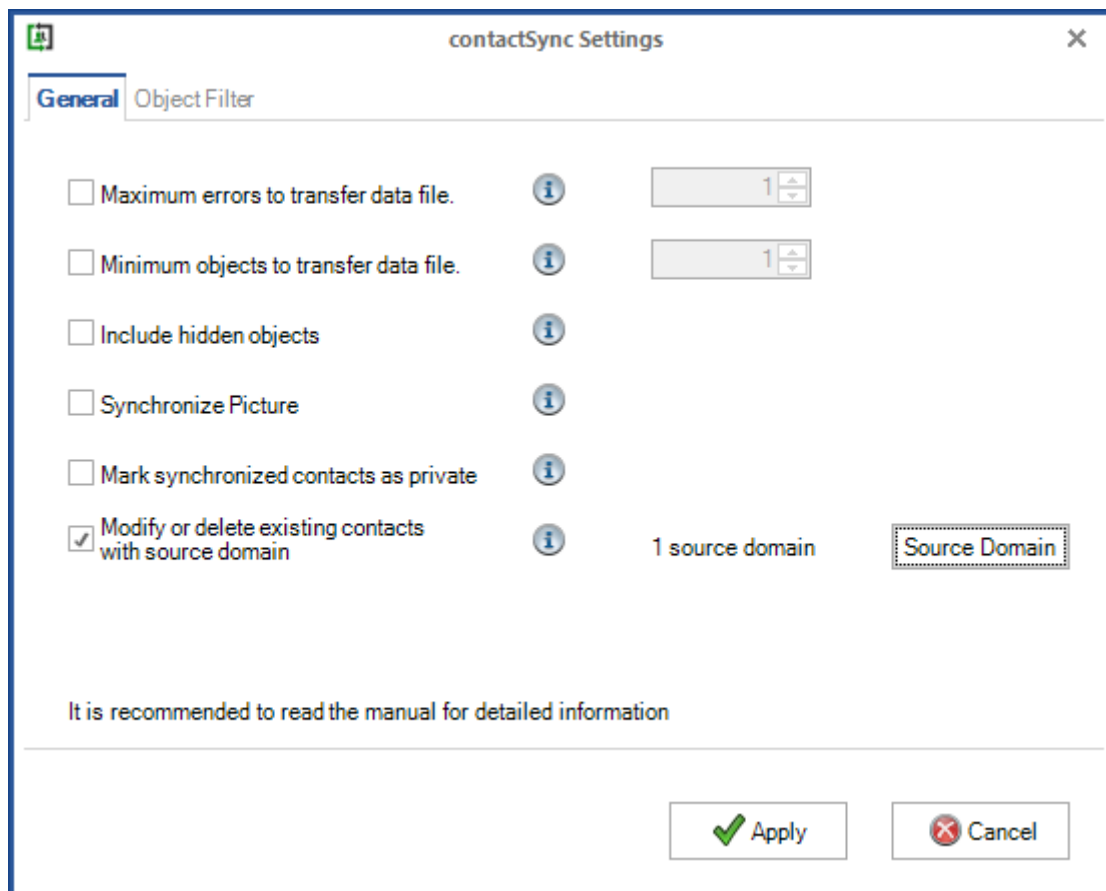
Add

Modify

Remove

Old Source Domain	
DC=company,DC=onmicrosoft,DC=com	

After clicking **Apply** to close the **Old Source Domain** dialog, the count of old source domain values is shown at the **Modify or delete existing contacts with source domain** option in the **contactSync Settings** dialog.



The screenshot shows the 'contactSync Settings' dialog box with the 'General' tab selected. The 'Object Filter' section is visible. The settings are as follows:

Setting	Value
<input type="checkbox"/> Maximum errors to transfer data file.	1
<input type="checkbox"/> Minimum objects to transfer data file.	1
<input type="checkbox"/> Include hidden objects	
<input type="checkbox"/> Synchronize Picture	
<input type="checkbox"/> Mark synchronized contacts as private	
<input checked="" type="checkbox"/> Modify or delete existing contacts with source domain	1 source domain

Below the settings, there is a text box labeled 'Source Domain'.

It is recommended to read the manual for detailed information

Buttons: **Apply** (with a green checkmark icon) and **Cancel** (with a red X icon).

contactSync version 8.1 compared with contactSync 8.0.x

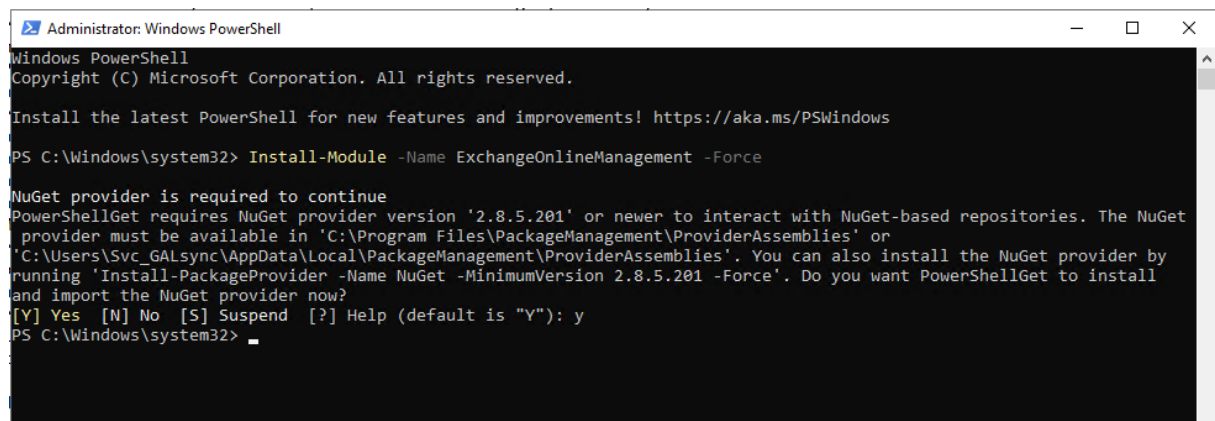
1. As of version 8.1, contactSync requires **Windows PowerShell 5.1** and the **ExchangeOnlineManagement PowerShell module** for **Exchange Online PowerShell V3**.

The **ExchangeOnlineManagement PowerShell module** needs to be installed on the contactSync Server, so contactSync can directly communicate with an Office 365 Exchange Online tenant.

On the contactSync Server, open **Windows PowerShell as Administrator**, then run the following:

```
Install-Module -Name ExchangeOnlineManagement -Force
```

When prompted, enter **Y** for Yes then Return



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

PS C:\Windows\system32> Install-Module -Name ExchangeOnlineManagement -Force

NuGet provider is required to continue
PowerShellGet requires NuGet provider version '2.8.5.201' or newer to interact with NuGet-based repositories. The NuGet
provider must be available in 'C:\Program Files\PackageManagement\ProviderAssemblies' or
'C:\Users\Svc_GALsync\AppData\Local\PackageManagement\ProviderAssemblies'. You can also install the NuGet provider by
running 'Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201 -Force'. Do you want PowerShellGet to install
and import the NuGet provider now?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y
PS C:\Windows\system32>
```

Please have look at the **Prerequisites for the Exchange Online PowerShell module** chapter of the **Microsoft Docs: About the Exchange Online PowerShell module**

<https://learn.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#prerequisites-for-the-exchange-online-powershell-module>

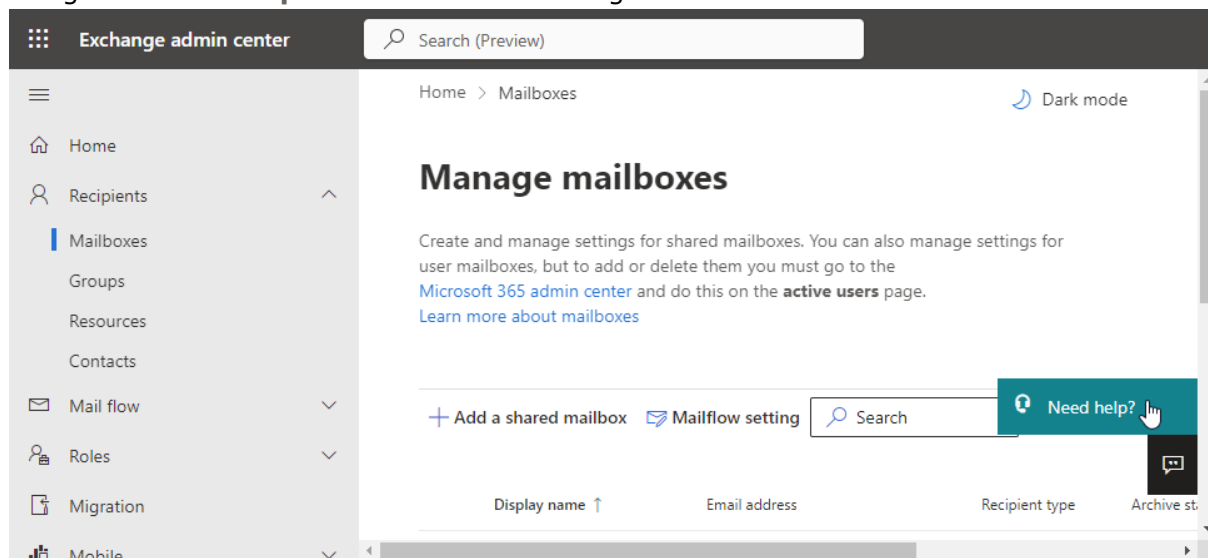
Remote PowerShell in Exchange Online is needed - Re-enabling or Extending RPS support

Microsoft announced the deprecation of Remote PowerShell (RPS) in Exchange Online, but offers the possibility of re-enabling or extending the RPS support in the Exchange Team Blog article:

[Deprecation of Remote PowerShell in Exchange Online – Re-enabling or Extending RPS support](#)

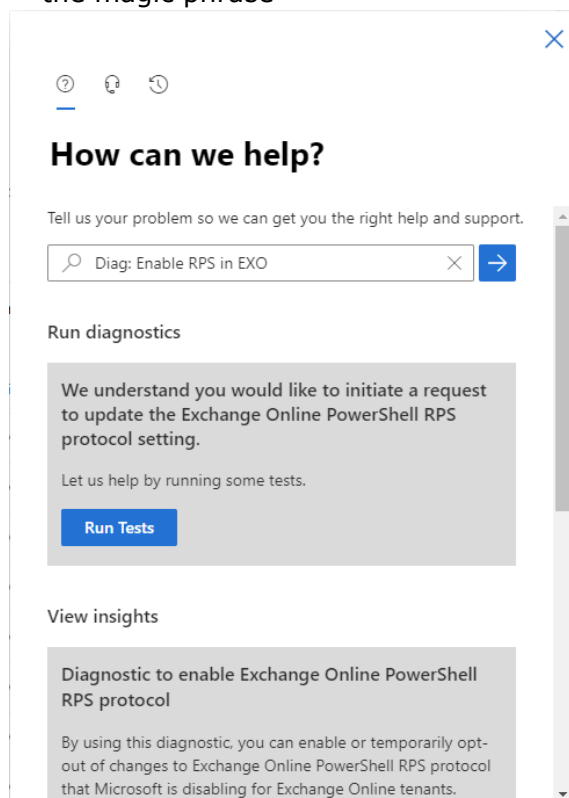
Using the Self-Service Tool

You can go to the Microsoft 365 admin center or the Exchange admin center and click on the green **Need help?** button in the lower right-hand corner of the screen.

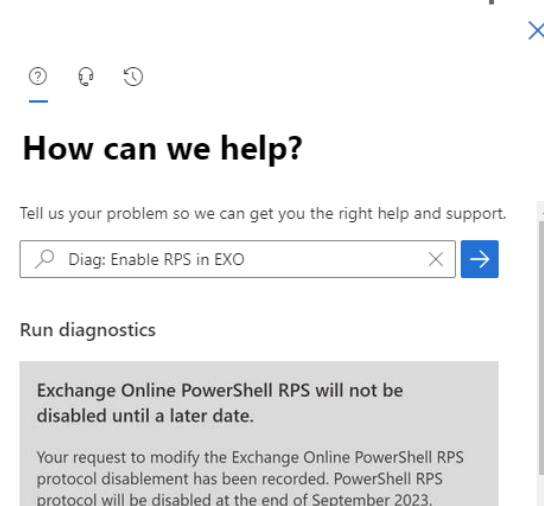


When you click the button, you enter our self-service help system. Here you can enter the magic phrase

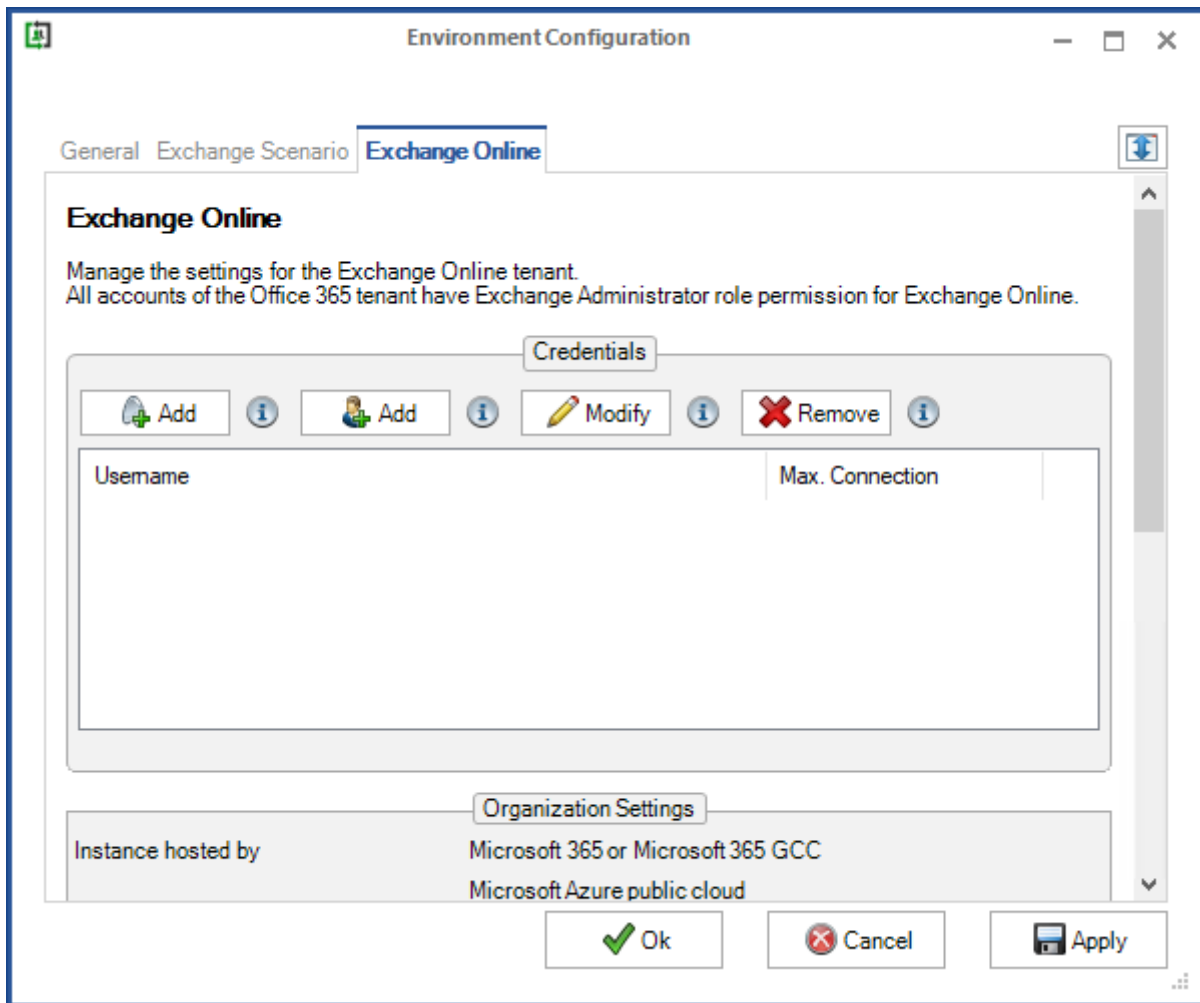
Diag: Enable RPS in EXO



Click **Run Tests** to check your tenant settings to see if we have disabled RPS, and then review the results. If we have not disabled RPS for your tenant, and you are running the diagnostic, we will offer you the option to temporarily opt out of RPS disablement or re-enable RPS. Click the checkbox and then click **Update**.



2. As of contactSync version 8.1, the **certificate-based authentication** method to establish a connection to Exchange Online is available on the Exchange Online tab of the **Environment Configuration**.



Please take a look at the **contactSync 8.1 manual** for further information

<https://www.netsec.de/en/products/contactsync/documentation.html>









The **Add** button on the left, will open a dialog window in which to configure **certificate-based authentication** via **App registration** for the Exchange Online tenant.

General Exchange Scenario **Exchange Online**

Exchange Online


Manage the settings for the Exchange Online tenant.
All accounts of the Office 365 tenant have Exchange Administrator role permission for Exchange Online.


Credentials


 Add   Add   Modify   Remove 

Exchange Online App Registration

Corresponding settings for the Enterprise Application in the Office 365 Azure AD that enables access to Exchange Online.

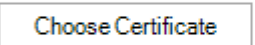
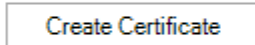

Organization / Tenant 



Application Display Name 


Application ID 



Certificate

Friendly Name	FriendlyName
Not After	Not After
Subject	Subject
Thumbprint	Thumbprint
Has PrivateKey	Has PrivateKey
User	User

Maximum Connection  ☒ Set as primary account 

Email Address 

Please take a look at the **Exchange Online certificate-based authentication via App Registration** chapter in the **contactSync 8.1 manual** for further information

<https://www.netsec.de/en/products/contactsync/documentation.html>

The **Add** button on the right, will open a dialog window in which to configure **user-based authentication** via **Service Account** for the Exchange Online tenant.

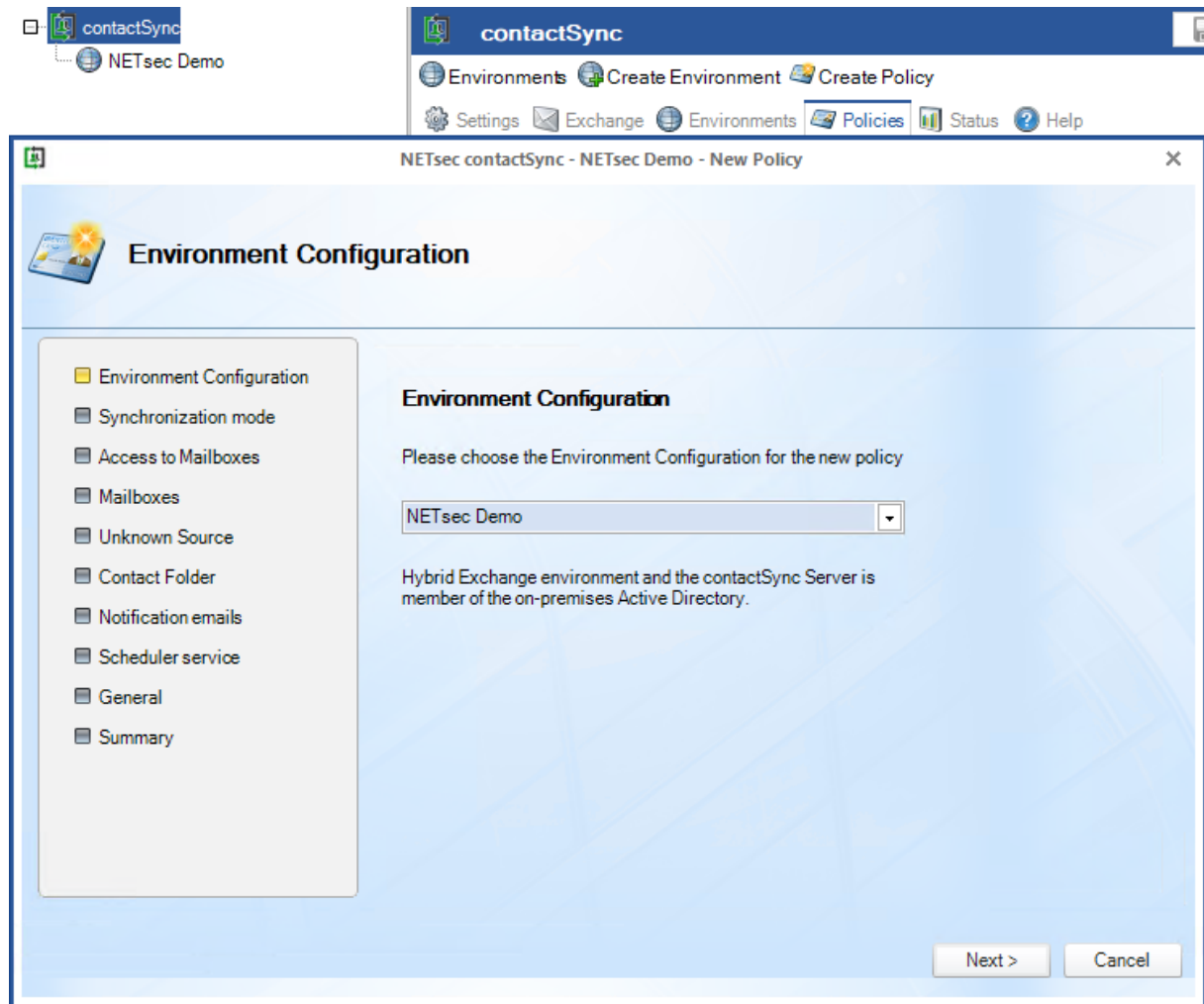
The screenshot shows a software interface with three tabs: 'General', 'Exchange Scenario', and 'Exchange Online'. The 'Exchange Online' tab is active. Below the tabs, the title 'Exchange Online' is followed by a description: 'Manage the settings for the Exchange Online tenant. All accounts of the Office 365 tenant have Exchange Administrator role permission for Exchange Onli'. Below this is a 'Credentials' section with a toolbar containing 'Add', 'Add', 'Modify', and 'Remove' buttons, each with an information icon. The 'Add' button is highlighted. A dialog box titled 'Exchange Online Credential' is open, showing fields for 'User-ID', 'Password', and 'E-mail', each with an information icon. Below these is a 'Maximum Connection' dropdown set to '2' and a checkbox 'Set as primary account' which is checked. At the bottom of the dialog is a section titled 'The authentication method for Exchange Web Services of the Office 365 tenant' with the text 'Please login for the Modern Authentication OAuth 2.0'. It features a radio button for 'Modern Authentication OAuth 2.0' and a 'Login' button. At the very bottom of the dialog are 'Apply' and 'Cancel' buttons.

Please take a look at the **Exchange Online authentication via Service Account** chapter in the **contactSync 8.1 manual** for further information

<https://www.netsec.de/en/products/contactsync/documentation.html>

contactSync version 8.0 compared with contactSync 7.6.x

1. As of contactSync version 8.0, new policies can only be created for an **Environment Configuration**. You must create and configure an **Environment Configuration** before a policy can be created.



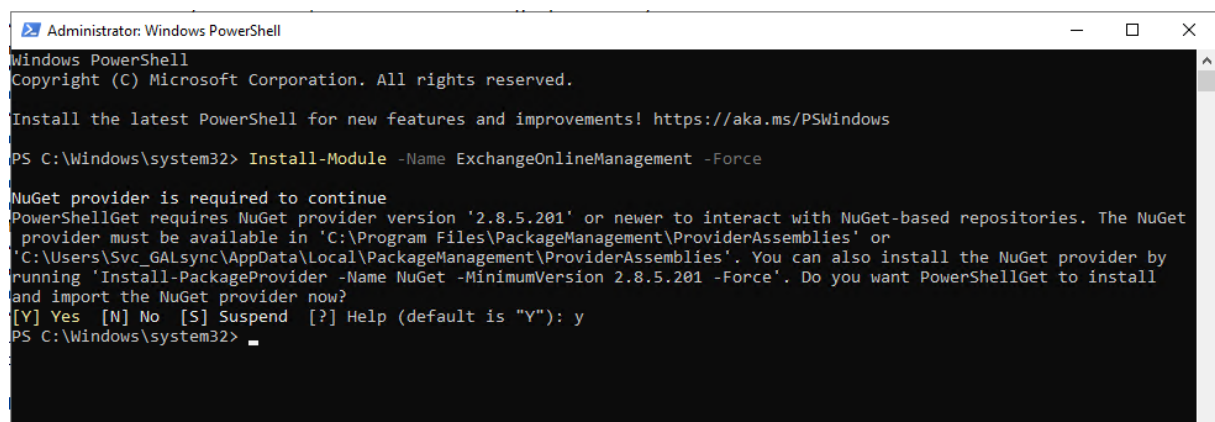
2. As of version 8.0, contactSync requires **Windows PowerShell 5.1** and the **ExchangeOnlineManagement PowerShell module** for **Exchange Online PowerShell V2** (ExchangeOnlineManagement module version 2.0.3 - 2.0.5).

The **ExchangeOnlineManagement PowerShell module** needs to be installed on the contactSync Server, so contactSync can directly communicate with an Office 365 Exchange Online tenant.

On the contactSync Server, open **Windows PowerShell as Administrator**, then run the following:

```
Install-Module -Name ExchangeOnlineManagement -RequiredVersion 2.0.5 -Force
```

When prompted, enter **Y** for Yes then Return



```
Administrator: Windows PowerShell
Windows PowerShell
Copyright (C) Microsoft Corporation. All rights reserved.

Install the latest PowerShell for new features and improvements! https://aka.ms/PSWindows

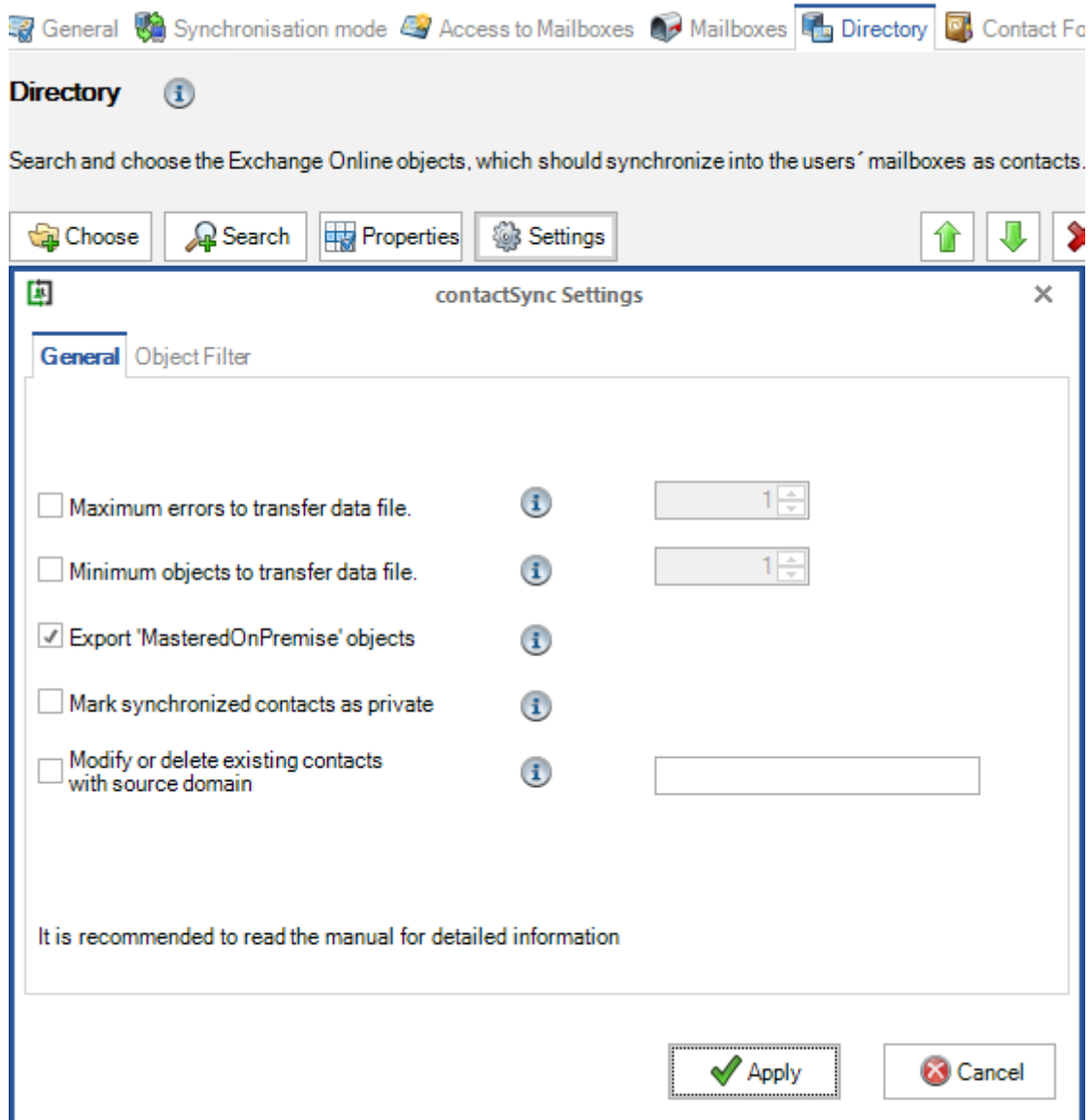
PS C:\Windows\system32> Install-Module -Name ExchangeOnlineManagement -Force

NuGet provider is required to continue
PowerShellGet requires NuGet provider version '2.8.5.201' or newer to interact with NuGet-based repositories. The NuGet
provider must be available in 'C:\Program Files\PackageManagement\ProviderAssemblies' or
'C:\Users\Svc_GALsync\AppData\Local\PackageManagement\ProviderAssemblies'. You can also install the NuGet provider by
running 'Install-PackageProvider -Name NuGet -MinimumVersion 2.8.5.201 -Force'. Do you want PowerShellGet to install
and import the NuGet provider now?
[Y] Yes [N] No [S] Suspend [?] Help (default is "Y"): y
PS C:\Windows\system32>
```

Please take look at the **Prerequisites for the EXO V2 module** chapter of the **Microsoft Docs: About the Exchange Online PowerShell V2 module**

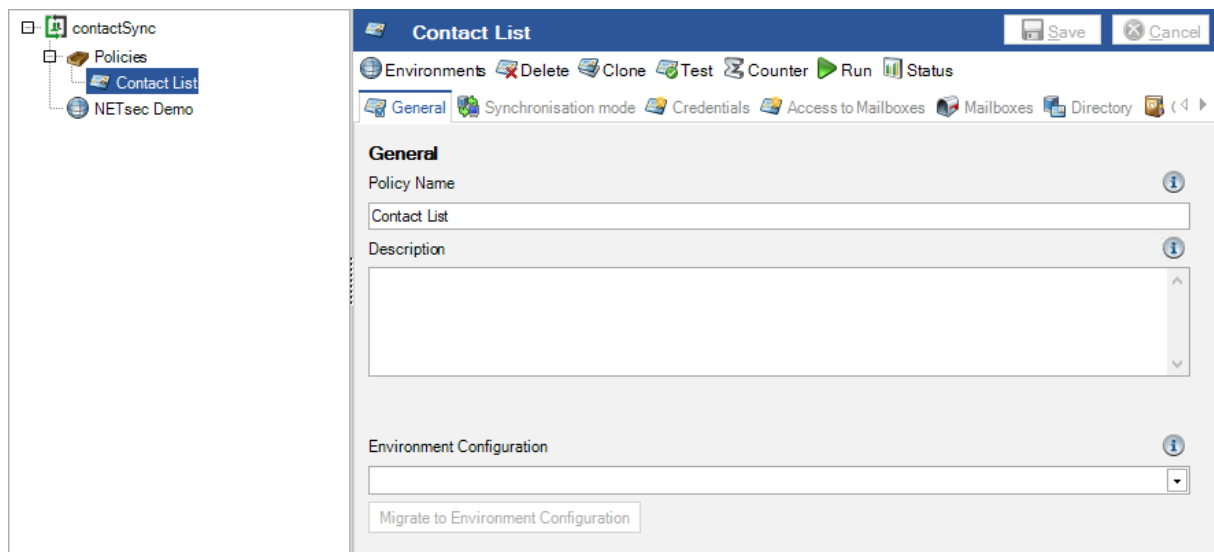
<https://docs.microsoft.com/en-us/powershell/exchange/exchange-online-powershell-v2?view=exchange-ps#prerequisites-for-the-exo-v2-module>

3. As of contactSync version 8.0, newly created policies for Exchange Online have the **Export 'MasteredOnPremise' objects** option of the **contactSync Settings** enabled by default.



Migrate an existing policy

Policies created by contactSync Version 7 or earlier versions have no associated Environment Configuration.



You can migrate such a policy to a corresponding Environment Configuration.

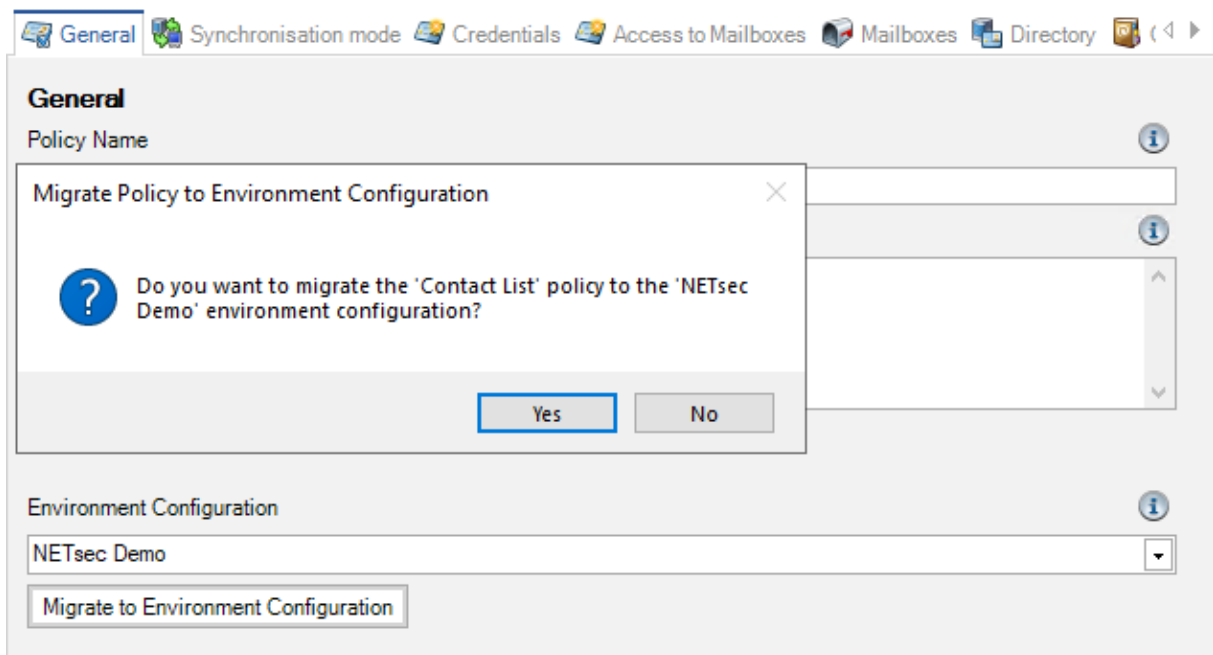
Please note that a policy can only migrate once.

Select the corresponding **Environment Configuration** on the **General** tab of the policy and click **Migrate to Environment Configuration**.



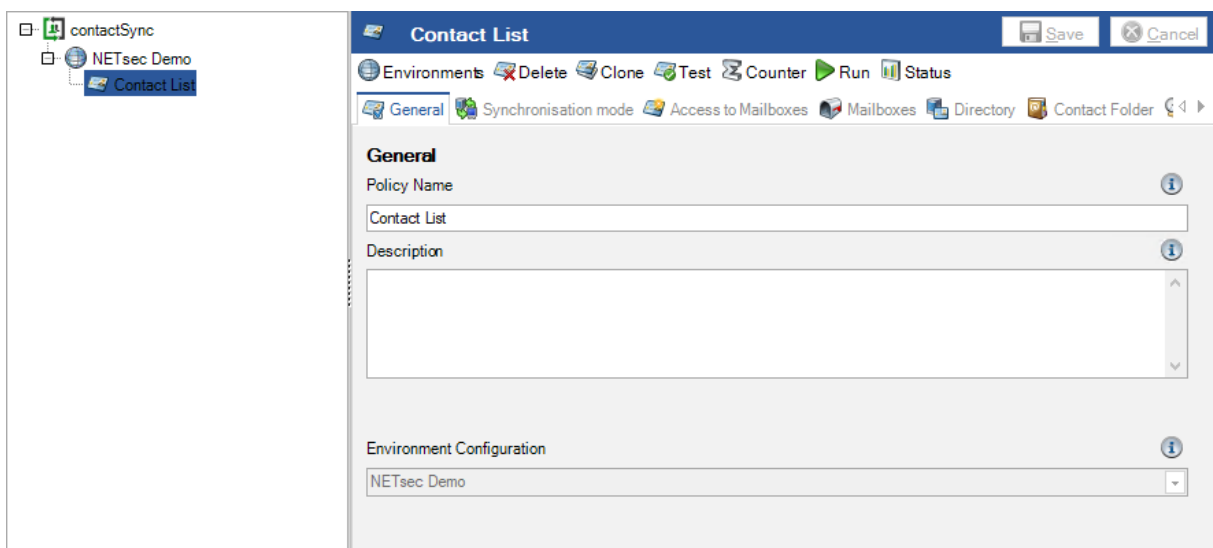
If you are sure, you have selected the correct **Environment Configuration** for the policy migration, click **Yes** to migrate the policy to the selected Environment Configuration.

Please note that a policy can only migrate once.



After that, please save the policy.

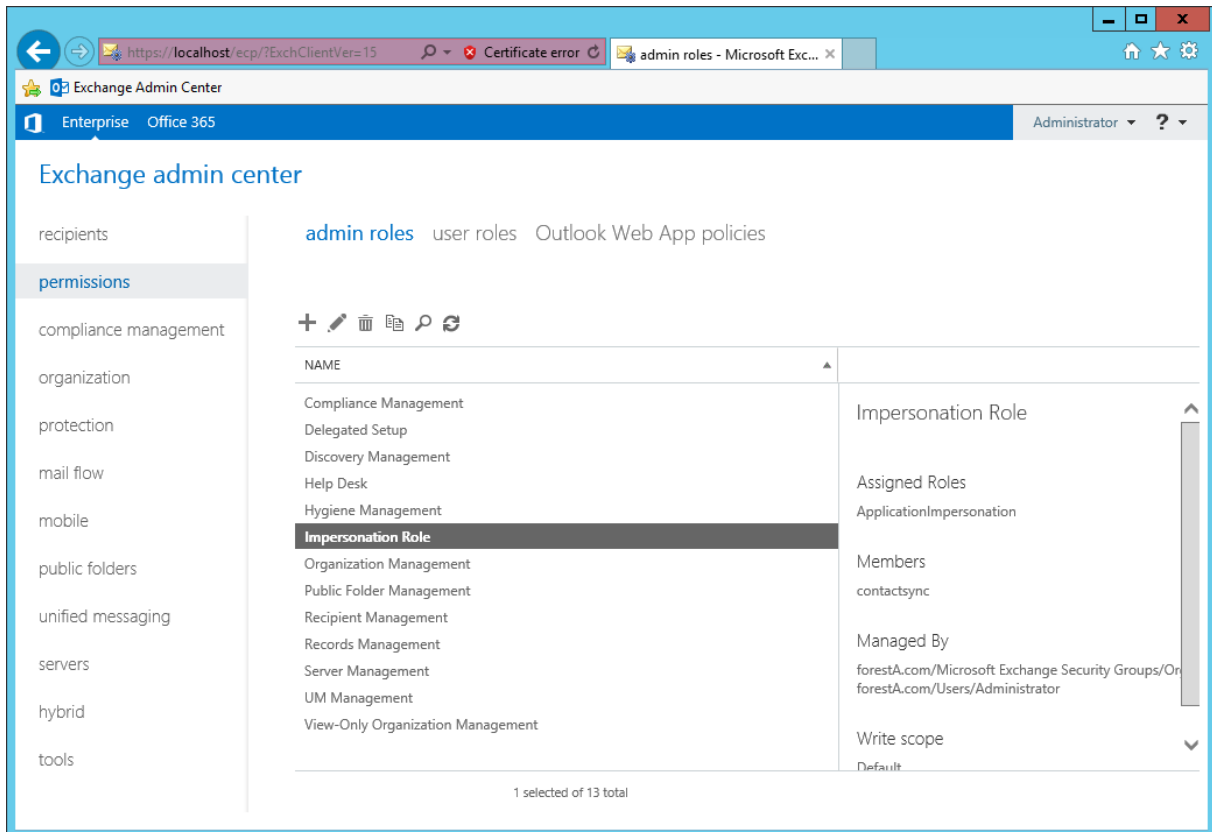
The policy now belongs to the corresponding Environment Configuration and uses the settings of the Environment Configuration for the Exchange environment.



contactSync version 7.6 compared with contactSync 7.5.x

As of contactSync version 7.6, the default access method to the mailboxes has changed to Exchange Impersonation on the **Access to mailboxes** Credentials tab of the policy.

The service account must be member of an **Admin Role** in the **Exchange Admin Center**, which has the **ApplicationImpersonation** role assigned.



On-premises Exchange:

The screenshot shows the 'Access to Mailboxes' configuration window. At the top, there are tabs for 'General', 'Synchronisation mode', 'Credentials', 'Mailboxes', and 'Directory'. The 'Mailboxes' tab is selected. The window is divided into three main sections: 'Access Method', 'Account for Access', and 'Exchange Web Services URL'. In the 'Access Method' section, 'Use impersonation for access to mailboxes' is selected. Below it, 'Use full access for access to mailboxes' is unselected, with a checkbox for 'with disabled EWS Throttling'. A spinner box shows the value '5', with a note: 'count of concurrent mailboxes getting the contacts e.g. 5 mailboxes concurrently'. In the 'Account for Access' section, 'Credentials of the contactSync service account' is selected. Below it, 'Credentials of a dedicated mailbox user' is unselected. There are input fields for 'User Name:', 'Password:', and 'E-Mail Address:'. The 'E-Mail Address' field contains 'contactsync@foresta.com'. In the 'Exchange Web Services URL' section, 'Use Autodiscover to find Exchange Web Services URL' is selected. Below it, 'Manual setting' is unselected, with an example URL 'e.g. https://casserver.domain.local/EWS/Exchange.asmx' and an empty input field with a search icon.

If **Exchange Application Impersonation** is configured, maximum 5 mailboxes concurrently are recommended.

If **Full Access** is configured in an on-premises Exchange environment and the server-side EWS Throttling is disabled, maximum 5 mailboxes concurrently are recommended.

Note: It depends on the Exchange environment how many mailboxes getting the contacts to be synchronized at the same time.

Exchange Online:

Access to Mailboxes

Access Method

☒ Use impersonation for access to mailboxes

☐ Use full access for access to mailboxes

5 count of concurrent mailboxes getting the contacts
e.g. 5 mailboxes concurrently

Account for Access

☒ Credentials of the primary Exchange Online account

☐ Credentials of a dedicated mailbox user

User Name:

Password:

E-Mail Address:

Exchange Web Services URL of the Office 365 tenant

☒ Use Autodiscover to find Exchange Web Services URL

☐ Manual setting e.g. <https://outlook.office365.com/EWS/Exchange.asmx>

The authentication method for Exchange Web Services of the Office 365 tenant

Exchange Online provides the following authentication options for you to choose from:

☒ Basic

☐ OAuth 2.0

Login

If **Exchange Application Impersonation** is configured (recommended), contactSync can connect to up to 5 mailboxes concurrently.

If **Full Access** is configured, contactSync can only connect to one mailbox at a time.

Note: It depends on the Exchange environment how many mailboxes getting the contacts to be synchronized at the same time.

contactSync version 7.5 compared with contactSync 7.4.x

1. The shortcut on the desktop and the start menu entry are renamed to NETsec contactSync.



2. The contactSync service account of an Office 365 Tenant needs access to its own mailbox. Therefore, Modern Authentication OAuth 2.0 for Exchange Web Services (EWS) can be configured.

Please note, that Microsoft will stop supporting and fully decommission the Basic Authentication for Exchange Web Services (EWS) to access Exchange Online on 13th October 2020.

Please check first, that the contactSync GUI is running in the credentials of the local contactSync service account, otherwise contactSync cannot decrypt the token later.

You can check this on the information bar at the bottom of the contactSync GUI.



Enter the credentials of the contactSync service, and click the **Login** button.


 A screenshot of the 'Exchange Online Credential' dialog box. It contains the following fields and controls:

- User-ID:** A text box containing 'support@netsectest.onmicrosoft.com' with an information icon.
- Password:** A password box with masked characters and an information icon.
- E-mail:** A text box containing 'support@netsectest.onmicrosoft.com' with an information icon.
- Maximum Connection:** A spinner box set to '2' with an information icon.
- Set as primary account:** A checkbox that is checked, with an information icon.
- Authentication Method:** A section titled 'The authentication method for Exchange Web Services of the Office 365 tenant' containing:
 - Please login for the Modern Authentication OAuth 2.0**
 - Modern Authentication OAuth 2.0:** A radio button that is selected.
 - Login:** A button with an information icon.
- Buttons:** 'Apply' (with a green checkmark icon) and 'Cancel' (with a red X icon) at the bottom.

Please note, that the User-ID and the E-mail address can be different for an Exchange Online mailbox user. This depends on your Office 365 Exchange Online tenant.


NETsec contactSync needs the requested permissions.

Sign in to your account

 Microsoft

support@netsectest.onmicrosoft.com

Permissions requested

 NETsec contactSync
contactsync.netsec.de

This application is not published by Microsoft or your organization.

This app would like to:

- ✓ Access your mailboxes
- ✓ Maintain access to data you have given it access to
- ✓ View your basic profile

☐ Consent on behalf of your organization

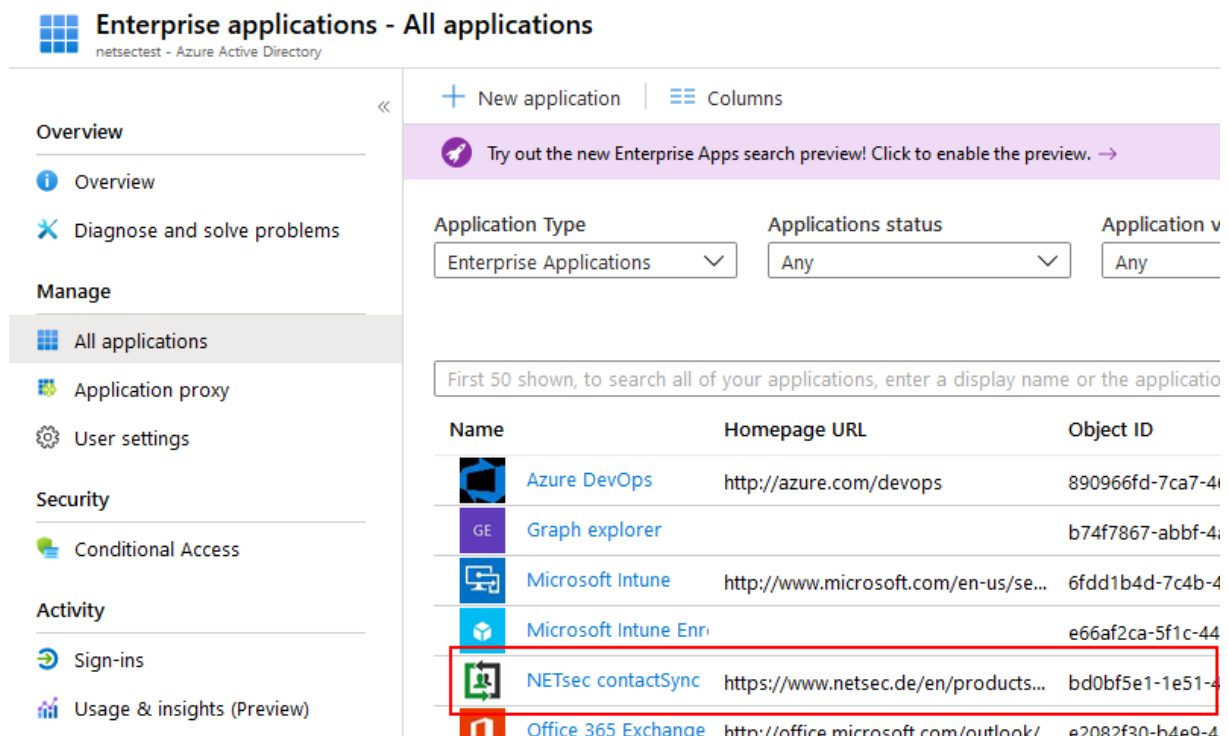
Accepting these permissions means that you allow this app to use your data as specified in their [terms of service](#) and [privacy statement](#). You can change these permissions at <https://myapps.microsoft.com>. [Show details](#)

Cancel

Accept

[Terms of use](#) [Privacy & cookies](#) ...

NETsec contactSync has an entry in **Enterprise Applications** of your Office 365 **Azure Active Directory Admin Center**, where you can also check and manage the permissions.



Enterprise applications - All applications
netsec-test - Azure Active Directory

Overview
 Overview
 Diagnose and solve problems

Manage
 All applications
 Application proxy
 User settings

Security
 Conditional Access

Activity
 Sign-ins
 Usage & insights (Preview)

+ New application | Columns

Try out the new Enterprise Apps search preview! Click to enable the preview. →

Application Type: Enterprise Applications | Applications status: Any | Application v: Any

First 50 shown, to search all of your applications, enter a display name or the application ID

Name	Homepage URL	Object ID
Azure DevOps	http://azure.com/devops	890966fd-7ca7-4...
Graph explorer		b74f7867-abbf-4...
Microsoft Intune	http://www.microsoft.com/en-us/se...	6fdd1b4d-7c4b-4...
Microsoft Intune Enr...		e66af2ca-5f1c-44...
NETsec contactSync	https://www.netsec.de/en/products...	bd0bf5e1-1e51-4...
Office 365 Exchange	http://office.microsoft.com/outlook/...	e2082f30-h4e9-4...

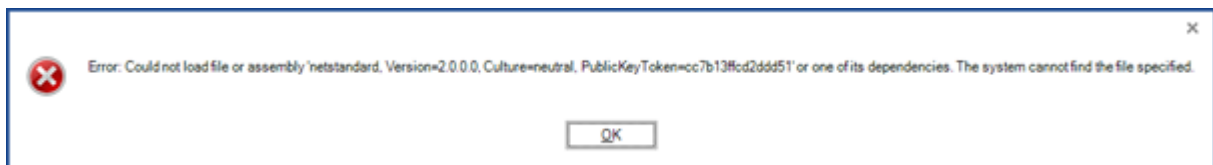
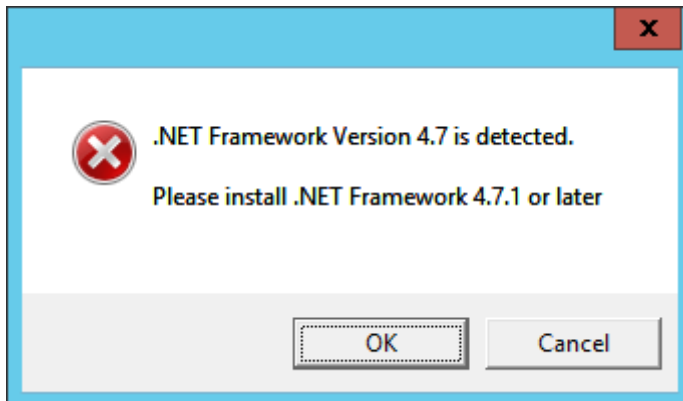
contactSync version 7.4 compared with contactSync 7.3.x

1. The old config.xml and old policy files may sometimes be incompatible.

contactSync version 7.3 compared with contactSync 7.2.x

1. contactSync needs **.NET Framework 4.7.1** or later.

Otherwise, you will receive the following errors and contactSync does not work.



Error message:

Could not load file or assembly 'netstandard, Version=2.0.0.0, Culture=neutral, PublicKeyToken=cc7b13ffcd2ddd51' or one of its dependencies. The system cannot find the file specified.

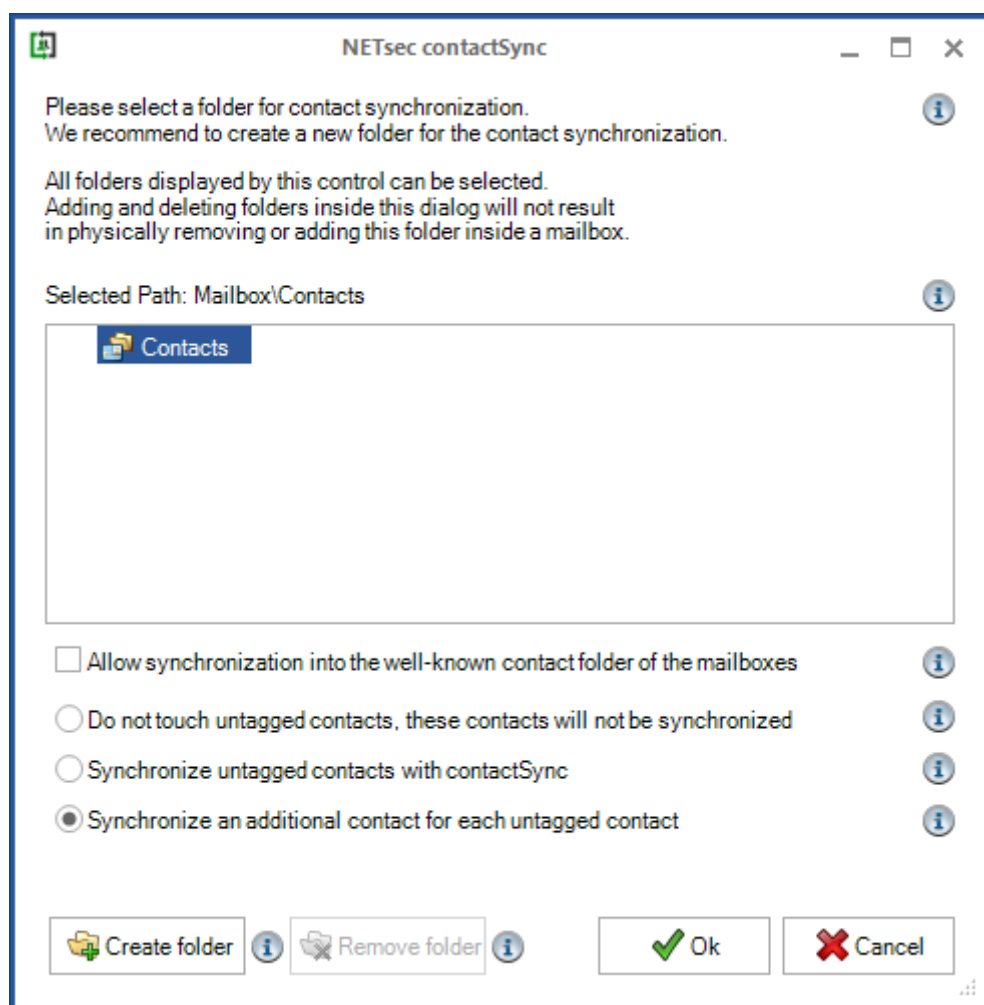
You can download the Microsoft .NET Framework 4.7.1 here:

<https://www.microsoft.com/en-us/download/details.aspx?id=56116>

2. Please check all credentials for the Office 365 accounts, because on some occasions, credentials are unable to be upgraded to the new version.

Note: If you downgrade to an old version, you have to insert all credentials again.

3. contactSync has the option to create and synchronize the contacts into the well-known contact folder of the mailboxes. Please be careful with this option because it allows you to directly change and delete contacts that your employees have created. This could also confuse some of your employees.

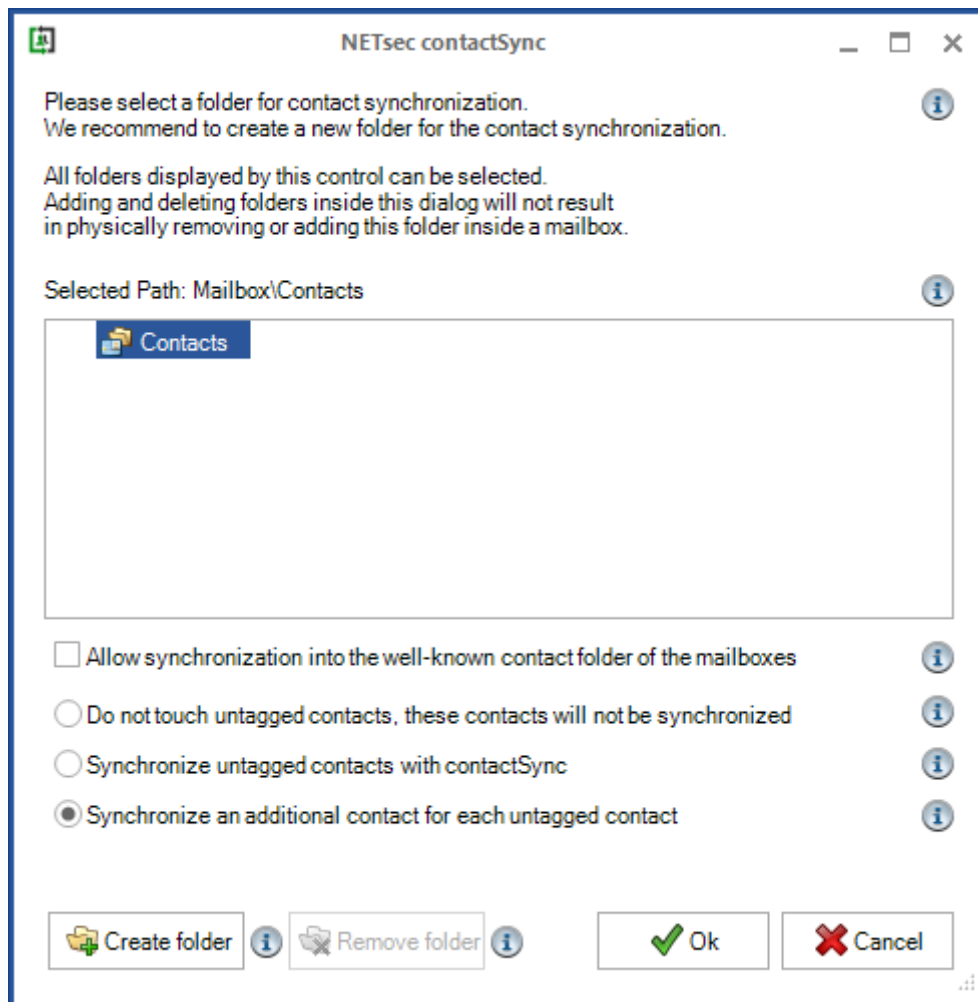


The default behavior has changed since contactSync 7.2.10 for existing contacts which were not created by contactSync, but in the selected contact folder and below it.

The default is now, that an additional contact for each existing contact, which was not created by contactSync, will be created and synchronized in the selected contact folder inside the mailboxes.

contactSync version 7.2 compared with contactSync 7.2.9

1. contactSync has the option to create and synchronize the contacts into the well-known contact folder of the mailboxes. Please be careful with this option because it allows you to directly change and delete contacts that your employees have created. This could also confuse some of your employees.



The default behavior has changed since contactSync 7.2.10 for existing contacts which were not created by contactSync, but in the selected contact folder and below it.

The default is now, that an additional contact for each existing contact, which was not created by contactSync, will be created and synchronized in the selected contact folder inside the mailboxes.

contactSync version 7.2 compared with contactSync 7.1.x

1. contactSync 7.2 has a redesigned remote PowerShell management for Office 365 tenants. contactSync will now try to reconnect broken remote PowerShell sessions to the Office 365 tenant during a policy run.

Note: If a PowerShell connection to the Office 365 tenant is broken, then contactSync will try to reconnect to the Office 365 tenant, but it may happen, that some data are not completely synchronized due to the broken connection.

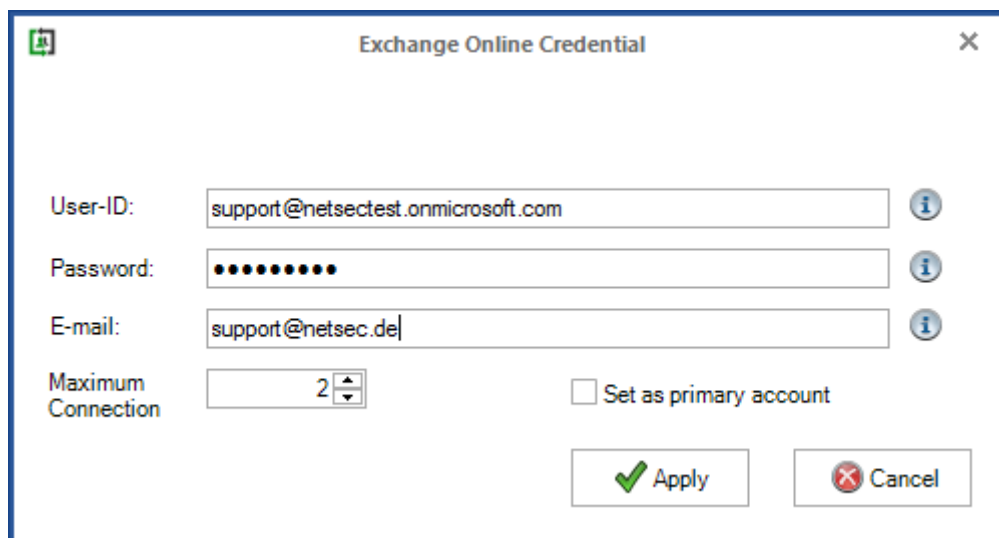
In this case contactSync will try to complete it in the next synchronization run.

In the worst case it can happened, that some existing contacts in the mailboxes of the synchronization will be deleted and that after they are re-created NDR issues in the target environment can occur.

2. contactSync needs PowerShell 3.0 and later to connect to Office 365 tenants.

3. contactSync needs the credentials for its Office 365 Exchange Online mailbox, and uses the User-ID as the email address in existing policies.

Please check your policies in the Office 365 tenant, to see whether there are any differences between the User-ID and email address.



The screenshot shows a dialog box titled "Exchange Online Credential". It has the following fields and controls:

- User-ID:** A text box containing "support@netsectest.onmicrosoft.com" with an information icon (i) to its right.
- Password:** A text box with masked characters (dots) and an information icon (i) to its right.
- E-mail:** A text box containing "support@netsec.de" with an information icon (i) to its right.
- Maximum Connection:** A spinner box set to the value "2".
- Set as primary account:** An unchecked checkbox.
- Buttons:** "Apply" (with a green checkmark icon) and "Cancel" (with a red X icon) buttons at the bottom right.

4. contactSync will try to reconnect broken remote PowerShell sessions to the Office 365 tenant during a policy run.

Note: If a PowerShell connection to the Office 365 tenant is broken, contactSync will try to reconnect to the Office 365 tenant, but it may happen, that some data are not completely synchronized.

contactSync will try to complete it in the next synchronization run.

5. contactSync version 7.2 supports the local security option **System cryptography: Use FIPS compliant algorithms for encryption, hashing, and signing**.

If the local security option **System cryptography: Use FIPS compliant algorithms for encryption, hashing, and signing** is enabled,

contactSync 7.2 cannot communicate encrypted with older versions.

6. contactSync has a defined scope of **RecipientTypeDetails**, of which mail-enabled objects will be synchronized into the mailbox as contact.

For example: This enables to synchronize only mailbox users in a selected organizational unit (OU).

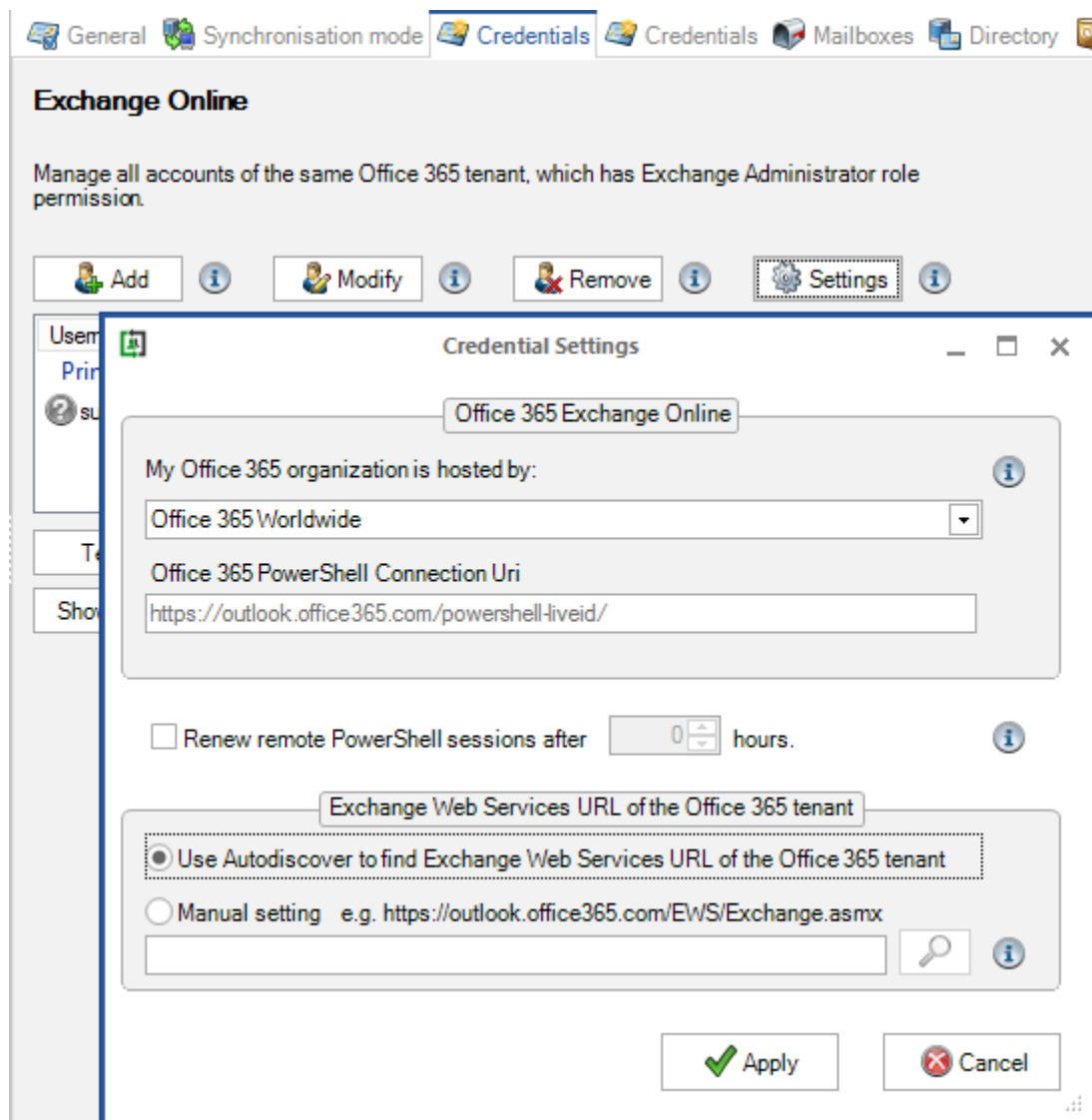
contactSync uses a default scope of **RecipientTypeDetails** for existing policies.

Please check your existing policies, that all **RecipientTypeDetails** are in the scope.

Note: If the `msExchRecipientTypeDetails` / `RecipientTypeDetails` property is not set, the object will be synchronized.

7. contactSync supports different Office 365 locations, particularly Office 365 Germany.

Select the Office 365 location in the **Settings** dialog on the Exchange Online Credentials tab.



Note: contactSync uses the "Office 365 Worldwide" by default.

Downgrading

Should you want to perform a downgrade to your previous version of contactSync, the changes you make in your new installation will not be reflected in the previous, older version. For downgrading, uninstall the new version, restore the backup of the contactSync program folder and commend data folder and run your previous installation file.

Licensing

For our customers with valid support the new version will be free of charge.

If you do not have valid support, you can keep using your contactSync version. If you install a newer version of contactSync, you have to buy a new license.

If you run contactSync version 8.5 without a license you will be able to synchronize contacts into maximum 20 mailboxes for up to 21 days!

Please note: Upgrading from contactSync to GALsync is possible without installing GALsync. Only the license needs to be updated.

If you have any licensing questions or queries, please feel free to contact our **contactSync Sales Team**
by phone +49 2421 998 78 20
or via e-mail sales@netsec.de

If you have any technical questions or queries, please feel free to contact our **contactSync Support Team**
by phone +49 2421 998 78 16
or via e-mail support@netsec.de