Introduction

**

The following document describes the setup of an "Enterprise Application", which is necessary for the use of OpenSpaces in combination with Microsoft 365 and Exchange Online. After successful setup, you will receive the parameters for logging the OpenSpaces service to the Exchange Server using **Modern Auth** (OAuth2). These can then be entered in the Windows Setup Tool of OpenSpaces.

Creating the Enterprise Application

The Enterprise Application is set up in Microsoft Entra ID (formerly Azure Active Directory). This can be reached after logging in with an administrator account under <u>https://entra.microsoft.com/</u>. Under "Applications", click on "App registrations" and then on "Owned applications".

Now click on "+ New registration" and follow the next steps.

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In the next window, assign a unique, freely selectable name for the application. In our example, we assign "Kindermann_OpenSpaces". For "Supported account types", select the first option "Accounts in this organizational directory only ([company identifier] only - Single tenant)".

Confirm with "Register".

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1 Home		Home > Enterprise applications Overview > Kindermann GmbH > Enterprise applications Overview > App registrations > Register	er an appli	cation	> App regist	rations >
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A Users	\sim					
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B Applications	~	Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant)				
Enterprise applications		 Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox) 				
App registrations		O Personal Microsoft accounts only				
A Protection	\sim	Help me choose				
(E) Identity governance	\sim	Redirect URI (optional)				
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	«	Register				

This completes the application. In the next display, you can already see the required "Application (client) ID". Copy/note them; a later readout is possible.

Microsoft Entra admin center		$\mathcal P$ Search resources, services, and do	pcs (G+/)	💭 🔅 🕐 🖓 📲 🕌 👘 👘					
1 Home		···· > Enterprise applications Overview	> Kindermann GmbH > Enterprise applications Overview > App registration Daces $\Rightarrow \cdots$	s $>$ Register an application $>$ App registrations $>$ \qquad					
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🔁 Devices	\sim	 Branding & properties Authentication 	Application (client) ID · CLAUDITED · . I CDF . DO LDF . NO	Redirect URIs Add a Redirect URI					
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III External Identified	\sim	Roles and administrators	Puild your application with th	. Microsoft identity platform					
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	~	Support + Troubleshooting	The Microsoft identity platform is an authentication servi tools. You can create modern, standards-based authentic						

Above the "Application (client) ID" you will find the button "Endpoints". Click on it.

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	«	Support + Troubleshooting		on service, open-source libraries, and application management thentication solutions, access and protect APIs, and add sign-

A window will appear on the side in which you can find the required "OAuth 2.0 authorization endpoint (v2)" and the "OAuth 2.0 token endpoint (v2)". Copy/note both URLs. These can also be retrieved later.

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8	Users	\sim	🚀 Integration assistant	↑ Essentials	OAuth 2.0 authorization endpoint (v1) https://login.microsoftonline.com/sili
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₿,	Applications	^	Certificates & secrets	Object ID	OpenID Connect metadata document https://login.microsoftonline.com/ IP 10 1 IP 10 IP 10 1 IP 1
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1	App registrations		API permissions	Supported accou	https://graph.microsoft.com
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2	Learn & support	~	11 Manifest		SAML-P sign-on endpoint
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Creating a Client Secret

The next step is to create the password that the application uses to authenticate itself. Switch to the "Certificates & secrets" tab, then to "Client secrets" and add "+ New client secret":

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1 Home		··· > Enterprise applications Overvi Kindermann_OpenS		1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	1 - C	App registratio > Reg	ister an applicati > App registratio	> Kindermann_OpenSpac
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Identity	$^{\sim}$	Overview						
(i) Overview		📣 Quickstart				s to the authentication serv certificate (instead of a clien	ice when receiving tokens at a web addres t secret) as a credential.	sable location (using an HTTPS
A Users	\sim	🚀 Integration assistant						
^ጵ ጽ Groups	\sim	Manage	Application registion	ration certificates, sec	rets and federated crede	entials can be found in the tal	os below.	×
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App registrations		API permissions	+ New client secret	t				
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Identity governance	\sim	App roles	No client secrets have	been created for thi	is application.			
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	«	Support + Troubleshooting						

A window collapses from the right. Enter a name for the secret, we will use "Kindermann OpenSpaces" in this example. Set the "Expires" expiration date to the desired value. We use the maximum of 24 months here. Click "Add" to create the secret.

We put a reminder in our own calendar to create a new secret in 2 years. To do so, this section of the instructions can simply be repeated.

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Identity	^	📕 Overview				capito		180 days (6 months)	
Overview		🗳 Quickstart			ns to identify themselves t we recommend using a cer		90 days (3 mont	hs)	
A Users	\sim	🚀 Integration assistant					365 days (12 mo	,	
^ኖ ጽ ^ę Groups	\sim	Manage	Application r	egistration certificates, s	ecrets and federated creden		545 days (18 mo		
C Devices	\sim	Branding & properties					730 days (24 mo	nths)	
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Enterprise applications		Token configuration	A secret string that	t the application uses	to prove its identity when				
App registrations		API permissions	+ New client s	ecret					
		🙆 Expose an API	Description		Expires				
A Protection	\sim	App roles	No client secrets h	ave been created for t	this application.				
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Evtornal Idantitian	\sim	🍰 Roles and administrators							
Learn & support	$^{\sim}$	10 Manifest							
	«	Support + Troubleshooting				Add Cancel			

The window will then retract, and a new list entry will appear in the background. In it, you can see the name, the expiration date, "Value" and the "Secret ID". The "Value" is the client secret and **must be documented directly here**, as it can no longer be viewed afterwards.

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Identity	^	Overview								
① Overview		😃 Quickstart	Got a second to give us some feedbac	$_{\rm k?}$ \rightarrow	÷					
A Users	\sim	🚀 Integration assistant	Credentials enable confidential applicatior	redentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable h						
^የ ጽ ^ቀ Groups	\sim	Manage	scheme). For a higher level of assurance, w							
E Devices	\sim	 Branding & properties Authentication 								
Applications	^	Certificates & secrets	 Application registration certificates, se 	crets and federated creden	tials can be found in the tabs below.		×			
Enterprise applications		Token configuration	Certificates (0) Client secrets (1) Federated credentials (0)							
App registrations		-> API permissions	A secret string that the application uses t	o prove its identity when	requesting a token. Also can be referred to as a	pplication passw	ord.			
Protection	\sim	Expose an API	+ New client secret							
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Set permissions

For the permission, it is now necessary to determine what can be done via the OpenSpaces service. The settings can be found under "API permissions". Click on "+ Add a permission".

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Identity	^	👯 Overview								
(i) Overview		4 Quickstart	The "Admin consent require	ed" column shov	vs the default value for an organization.	However, user consent can be customized per permission,	user, or app. This column ×			
A Users	\sim	🚀 Integration assistant	may not reflect the value in your organization, or in organizations where this app will be used. Learn more							
^ቋ ጽ Groups	\sim	Manage	Configured permissions							
E Devices	\sim	 Branding & properties Authentication 			ney are granted permissions by users ds. Learn more about permissions and	/admins as part of the consent process. The list of con d consent	figured permissions should			
B Applications	^	📍 Certificates & secrets	$+$ Add a permission \checkmark Gr	ant admin con	sent for Kindermann GmbH					
Enterprise applications		Token configuration	API / Permissions name	Туре	Description	Admin consent req Status				
App registrations		 API permissions 	→ Microsoft Graph (1)				•••			
A Protection	\sim	Expose an API	User.Read	Delegated	Sign in and read user profile	No	•••			
Identity governance	\sim	App roles								
Evtornal Identities	~	Roles and administrators	To view and manage consented	permissions fo	r individual apps, as well as your tena	int's consent settings, try Enterprise applications.				
Learn & support	^	10 Manifest								
		Support + Troubleshooting								

From the right, a window opens again. Select the "APIs my organization uses" tab and search for "Office 365 Exchange Online". Click on the entry.

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A Home		··· > Enterprise applications Overvi 		Request API permissions	×
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Identity	^	Overview		Apps in your directory that expose APIs are shown below	
 Overview 		i Quickstart	1 The "Admin co	√ Office 365 Exchange Online	
A Users	\sim	🚀 Integration assistant	may not reflec	Name	Application (client) ID
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Enterprise applications		Token configuration	API / Permissions		
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A Protection	\sim	App roles			
Identity governance	\sim	🏜 Owners	To view and manage		
🕮 Eutomal Idantitian	\sim	Roles and administrators			
Learn & support	^	1 Manifest			
	«	Support + Troubleshooting			

Next, select "Application permissions" and the configurable permissions will appear below it. Tick "full_access_as_app" under "Other permissions" and save with "Add permissions" at the bottom.

To set up OpenSpaces for the first time, this setting must be set.

If the service is not to be granted full permissions to all mailboxes, these can be restricted to those (room) mailboxes later.

To do this, jump to page 9 after the successful setup.



For the authorization to be applied, it must then be released with administrative permissions. To do this, click on "Grant admin consent for [company name]" in the overview.

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Identity	^	🐻 Overview	A You are editing permission(s)	to your applica	ation, users will have to consent even if they've alr	eady done so previously.			
(i) Overview		😃 Quickstart							
A Users	\sim	🚀 Integration assistant	The "Admin consent required	' column show	s the default value for an organization. However,	user consent can be customized per	permission user or app. This column. X		
^የ ጽ ⁴ Groups	\sim	Manage	Manage may not reflect the value in your organization, or in organizations where this app will be used. Learn more						
E Devices	\sim	 Branding & properties Authentication 	Configured permissions						
Applications	^	📍 Certificates & secrets			ey are granted permissions by users/admins a s. Learn more about permissions and consent		e list of configured permissions should		
Enterprise applications		Token configuration			· · · · ·				
App registrations		API permissions			ent for Kindermann GmbH				
-		Expose an API	API / Permissions name	Туре	Description	Admin consent req.	Status		
Protection	\sim	App roles	✓ Microsoft Graph (1)				•••		
Identity governance	\sim	🎎 Owners	User.Read	Delegated	Sign in and read user profile	No	•••		
External Identities	~	👃 Roles and administrators	✓ Office 365 Exchange Online (1)				•••		
Learn & support	^	10 Manifest	full_access_as_app	Application	Use Exchange Web Services with full access	to all mai Yes	A Not granted for Kinder		
	~	Support + Troubleshooting							

One last step is still necessary. Switch to the "Authentication" tab in the overview and select "Add a platform" to create a redirect URL. From the right, a window opens again, in which "Web" must be selected.

Microsoft Entra admin center		, P Search resources, services, and	docs (G+/)	¢		мвн 🕘
A Home			. > Kindermann Gm > Enterprise applications Overvi > A Spaces Authentication 🖈 …	Configure platforms		×
★ Favorites	\sim		R Got feedback?	Web applications		
Identity	^	R Overview	Platform configurations	Web	Single-page application	
① Overview		n Quickstart	Depending on the platform or device this application is targetin	Build, host, and deploy a web server applicationNET, Java, Python	Configure browser client applications and progressive web applications.	
A Users	\sim	🚀 Integration assistant	redirect URIs, specific authentication settings, or fields specific to th		Javascript.	
^የ ጽ [®] Groups	\sim	Manage	+ Add a platform			
- Devices	\sim	 Branding & properties Authentication 	Supported account types	Mobile and desktop applications		
B Applications	\sim	Certificates & secrets	Who can use this application or access this API?	iOS / macOS	Android	
Enterprise applications		 Token configuration API permissions 	Accounts in this organizational directory only (Kindermann Gm Accounts in any organizational directory (Any Microsoft Entra I	Objective-C, Swift, Xamarin	TT Java, Kotlin, Xamarin	
App registrations		Expose an API	Help me decide			
Protection	\sim	App roles	Advanced settings			
Identity governance	\sim	🍰 Owners	Allow public client flows $^{\odot}$	Mobile and desktop applications		
a External Identities	\sim	👃 Roles and administrators	Enable the following mobile and desktop flows:	Windows, UWP, Console, IoT & Limited-entry Devices, Classic iOS +		
🙎 Learn & support	^	Manifest	chable the following mobile and desktop nows:	Android		
	«	Support + Troubleshooting	Save Discard			

For the redirect URL, enter the following address: http://localhost:8080/ews Confirm with "Configure".

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★ Home ···· > Enterprise applications Overvi > Kindermann Gm > Enterprise applications Overvi > A Configure Web ● Kindermann_OpenSpaces Authentication * ··· ····	×
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Identity Redirect URIs Platform configurations The URIs we will accept as destinations when returning authentication	
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E Devices Pront-channel logout URL This is where we send a request to have the application clear the user's This is where we send a request to have the application clear the user's	session data. This is
Image: Bapplications Certificates & secrets Who can use this application or access this API? required for single sign-out to work correctly. Enterprise applications III Token configuration Accounts in this organizational directory only (Kindermann Gm e.g. https://example.com/logout 	
App registrations	
A protection App roles Advanced settings Advanced settings Advanced settings	nvokes a web API via web apps and other
Identity governance Allow public client flows Allow public client flows Select the tokens you would like to be issued by the authorization endperturbation of the select on the sel	
Learn & support Support + Troubleshooting Save Discard Configure Cancel	

This completes the configuration of the Enterprise Application in Microsoft Entra ID, and you should have the following data:

App ID / Client Secret / Auth Endpoint / Token Endpoint / Redirect URL

You can now proceed with the configuration in the main manual and enter the data in the configurator. You can also check the connection to the server there.

Optional: Restrict permissions to specific mailboxes

If desired, the authorization of the service can be restricted so that it cannot be read to the calendars of all mailboxes.

This becomes necessary if "full_access_as_app" is not permitted without restriction.

Source: <u>https://docs.microsoft.com/de-de/graph/auth-limit-mailbox-access#configure-applicationaccesspolicy</u>

An email-enabled security group is required for setup. This can be created in the Exchange Online Admin Center in the "Recipients" tab under "Groups". Select "Mail-enabled security" and create such a group under "Add a group".

	Exchange admin center		P :	Search (Preview)				D @		
=			Home > Groups							
仚	Home		Groups							
8	Recipients	^	0.0465							
I	Mailboxes Groups Resources		Microsoft 365 Distribution list E	Dynamic distribution list	Mail-enabled security					
	Contacts		A, Add a group ↓ Export 🖒 Refr	esh			₽ Search Mail-e	nabled security] =	
	Mail flow	\sim							J	
₽ <u></u>	Roles	\sim	Group name ↑	Group	email	Sync status Created on	Choose columns			
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E₽	Public folders								e	
8	Organization	\sim							ē	
÷	Settings				This page is en Add your first item to se					-
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In the following screen, you can click directly on "Next" if "Mail-enabled security" is selected.

::: Exchange a	admin center	P s	Search (Preview) 🖸 🗘 🐵 ? 🚱
=		Home > Groups > Add a group	
命 Home			
A Recipients	^	Group type	Choose a group type
Mailboxes			
Groups		O Basics	Choose the group type that best meets your team's needs. Learn more about group types
Resources		O Owners	
Contacts			Microsoft 365 (recommended)
🖾 Mail flow	\sim	 O Members	Allows teams to collaborate by giving them a group email and a shared workspace for conversations, files, and calendars. In Outlook, these are called Groups.
P Roles	\sim		
🗂 Migration		O Settings	O Distribution
📲 Mobile	~		Creates an email address for a group of people.
🗠 Reports	~	O Finish	Mail-enabled security
♀ Insights			Sends messages to all members of the group and gives access to resources like OneDrive, SharePoint and admin roles
E Public folders			0
🖧 Organization	~		
l Settings			Next

Choose a plausible display name (e.g.: Kindermann_OpenSpaces). Since the notes are optional, you can go straight to "Next".

	Exchange admin center	0			✓ Search (Preview)			Q	۵	?	\odot
=			He	ome > Groups >	Add a group						
命	Home										
8	Recipients	^	•	Group type		Set up the basics					
	Mailboxes										
	Groups			Basics		To get started, fill out some basic info about the group you'd like to create.					
	Resources										
	Contacts) Owners		Name *	1				
	Mail flow	\sim) Members		Kindermann_OpenSpaces	J				
<i>P</i> a	Roles	\sim				Description					
G	Migration		Ċ) Settings		Enter a description for your new group]				
ď	Mobile	\sim) Finish							
k	Reports	\sim	0	/ 1111311							
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E₽	Public folders										0
8	Organization	\sim									œ
÷	Settings					Back Next		Ca	ncel		
	01 ()										

In the next window, use the search field to find the owner of the group and tick the box below. Close the dialog with "Add [number]" and then click on "Next" again.

We recommend the admin address as the owner.

	Exchange admin center		₽ Sear	rch (Preview)	□)
=			Home $>$ Groups $>$ Add a group		×	
ଜ	Home				Assign owners	
8	Recipients	^	Group type	Assign owners	Select up to 20 people to join this group as owners. You can add more later from Active teams & groups.	
	Mailboxes				Active teams & groups. Admin X	
	Groups		Basics	Group owners have unique permissic	> admin	
	Resources			settings, rename the group, update it	Display name	
	Contacts		Owners	You have to have at least one owner		
	Mail flow	\sim	Members		KG Kindermann GmbH	
<i>₽</i> ≘	Roles	\sim		+ Assign owners		
G	Migration		O Settings			
ų	Mobile	~	 O Finish	New c		
k	Reports	\sim		New C		
Ø	Insights					
E₽	Public folders					
8	Organization	~				
ŝ	Settings			Back Next	Add (1) Cancel	
-	~ .					_

As a member, you can set up the mailboxes under "Add members" that you would like to share with OpenSpaces. You can search for them using the search field, tick them and add them with "Add [number]". The window closes automatically.

	Exchange admin center			Search (Preview)	□ ↓ ◎ ? □
=			Home > Groups > Add	a group	×
ណ៍	Home				Add members
8	Recipients	^	Group type	Add members	Select up to 20 people to join this group as members. You can add more later from
	Mailboxes				Active teams & groups.
	Groups		Basics	Group members have access to every email address. By default, they can in	
	Resources Contacts		Owners		Display name
	Mail flow	~	Members	+ Add members	Konferenzraum Berlin
<u>م</u>	Roles	~			Konferenzraum Eibelstadt
ľ	Migration		O Settings	New m	Ke Konferenziaum Libelstaat
ď	Mobile	~	 O Finish		Konferenzraum Ochsenfurt
2	Reports	~			Konferenzraum Würzburg
Ø	Insights				KW Konierenziaum wurzourg
E₽	Public folders				
品	Organization	~			
	Settings			Back Next	Add (2) Cancel

Once you have added all of them, click "Next" to confirm.

In the last step, assign an email address for the group and write it down / copy it. The address will then be required. Check the boxes as shown so that unauthorized interactions with the newly created group are excluded. Click "Next" to confirm.

	Exchange admin center		Search (Preview)			Q 🚳		
≡			Home > Groups > Add a group					
ώ	Home							
8	Recipients	^	Group type	Edit settings				
	Mailboxes			Mail-enabled security group				
	Groups		Basics	Has all the functionality of a distribution list and additio	mally can be used to control access to OneDrive	and		
	Resources		 Owners 	SharePoint.				
	Contacts Mail flow	~						
			Members	Group email address * Kindermann_OpenSpaces	Domains	~		
	Roles	~	Settings	Kindermann_Openspaces	(Cal kindermann.de	`	ļ	
Ľ.	Migration		Settings	Communication	and the state of the			
ЧÖ	Mobile	\sim	O Finish	Allow people outside of my organization to send en	nail to this Mail-enabled security group			
k	Reports	\sim		Approval Require owner approval to join the group				
Ø	Insights			The quite owner approval to join the group			1	
E₽	Public folders							0
4	Organization	~						e
	Settings			Back Next		Cancel		

Check your entries and create the group with "Create group".

	Exchange admin center			Search (Preview)	
=			Home > Groups > Add a grou	q	
ŵ	Home				
8	Recipients	^	🥑 Group type	Review and finish adding group	
	Mailboxes				
	Groups		Basics	You're almost there - make sure everything looks right before adding your new group.	
	Resources			Group type	
	Contacts		 Owners 	Mail-enabled security	
	Mail flow	\sim	 Members 	Edit	
Re	Roles	\sim		Basics	
5	Migration		 Settings 	Name: Kindermann_OpenSpaces Description: None provided	
ď	Mobile	\sim	Finish	Edit	
k	Reports	\sim		Owners	
Q	Insights			Kindermann GmbH Edit	
Ē	Public folders			Q	
4	Organization	~		Members Konferenzraum Berlin, Konferenzraum Eibelstadt, Konferenzraum Ochsenfurt, Konferenzraum Würzburg	l
\$	Settings			Back Create group Cancel	1
	out ()				

Once the group has been created, the app can be restricted to that group. This can be done via a PowerShell CMDlet.

Open PowerShell and connect to your Exchange Online Server:

Connect-ExchangeOnline -User	PrincipalName [<mark>email address of your admin account</mark>]	
🛛 🗶 Windows PowerShell 🛛 🗙	+ ~	
Windows PowerShell Copyright (C) Microsoft C	orporation. Alle Rechte vorbehalten.	
Installieren Sie die neue	ste PowerShell für neue Funktionen und Verbesserungen! https://aka.ms/PSWindows	
PS C:\Users\. Flore arlas	> Connect-ExchangeOnline -UserPrincipalName - 🖬 📾 🖬 🖬 🖬 🖛 🖛 🖛 🖛	
Bei Ihrem K	Konto anmelden X	
	Microsoft	
	 estimat feedbaar inspect boom 	
	Kennwort eingeben	
	Kennwort	
	Kennwort vergessen	
	Mit einem anderen Konto anmelden	
	Anmelden	
Nutzu	ngsbedingungen Datenschutz und Cookies	

Then run the following command to restrict the application to the group:

New-ApplicationAccessPolicy -AppId [Your Application (client) ID] -PolicyScopeGroupId [Your Group Email Address] -AccessRight RestrictAccess -Description "Restrict this app to members of distribution group EvenUsers."

🖉 Windows PowerShell X + - 🗸 — O X
Windows PowerShell Copyright (C) Microsoft Corporation. Alle Rechte vorbehalten.
Installieren Sie die neueste PowerShell für neue Funktionen und Verbesserungen! https://aka.ms/PSWindows
PS C:\Users\• ••••••••••••• Connect-ExchangeOnline -UserPrincipalName
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\a.mla mail >> New-ApplicationAccessPolicy -AppId The bit-111- bit-101- file and -PolicyScopeGroupId Kindermann_OpenSpaces@kindermann.de - AccessRight RestrictAccess -Description "Restrict this app to members of distribution group EvenUsers."
ScopeName : Kindermann_OpenSpaces ScopeIdentity : Informann_OpenSpaces202403181444757 Identity : Informann_OpenSpaces20240318144757 Identity : Informann Identity : Informanna Identity : Info
Accessful Accessful ShardType : All IsValid : True ObjectState : Unchanged
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This means that OpenSpaces is limited to the members of the group. The group and its members can also be customized in the Exchange Online admin center.