

Application registration and setup

Some of the features in Puzzel's Agent Application requires users to authenticate themselves in Azure AD. Follow the steps below which takes you through the process of configuring Puzzel Office 365 Connector application in Azure AD. This is done as a two-step process as explained below.

Application registration

Follow the procedure below to register the Office 365 connector application in Azure AD:

1. Go to https://portal.azure.com/, and open Azure Active Directory and select App registrations and click on New registration button

	🧿 + New registration ⊕ Endpoints ⁄∕? Troubleshooting		
1 Overview	▲ 🚺 Welcome to the new and improved App registrations (now Generally Available). See what's new →		
😴 Getting started	Looking to learn how it's changed from App registrations (Legacy)? Learn more Still want to use App registrations (Legacy)? Co hade and fall us why		
Manage	Suil want to use App registrations (Legacy): Go back and tell us why		
A Users	All applications Owned applications		
🝰 Groups	Start typing a name or Application ID to filter these results		
🏮 Organizational relationships	cs Catalog Sync	2/28/2018	🕕 Expired
Roles and administrators	MSAL Testapp	7/10/2018	-
Enterprise applications	Dummy	10/9/2019	-
Devices	C Puzzel Catalog Sync	5/24/2018	-
App registrations	AZ AzureNewInterface-Test	10/22/2019	🥑 Current
Identity Governance	My Node.js App	7/6/2018	🥝 Current
Application proxy	os Devpuzzel SSO	2/12/2018	🥝 Current
🔓 Licenses	Ps Puzzel Skype	10/11/2018	-
🚸 Azure AD Connect	R Puzzel catalog sync	10/23/2019	-

- 2. Enter the following three parameters in the Register an application window and clickRegister
 - Name Choose a name for the application (e.g. O365 Email Connector)
 - Supported account types Choose the option that is most relevant to you. The recommended option is "Accounts in this organizational directory only"
 - Redirect URI (optional) Choose Web and enter <u>https://localhost</u>



Name	
The user-facing displa	y name for this application (this can be changed later).
O365 Email Connect	Dr
Supported acco	unt types
Who can use this app	ication or access this API?
 Accounts in this of 	rganizational directory only (Development Puzzel only - Single tenant)
 Accounts in any of 	rganizational directory (Any Azure AD directory - Multitenant)
 Accounts in any c 	rganizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox
Help me choose	
Redirect URI (op	tional)
We'll return the auther changed later, but a v	itication response to this URI after successfully authenticating the user. Providing this now is optional and it can b alue is required for most authentication scenarios.
Web	✓ https://localhost ✓

3. You will see the screen below after the application has been registered. Use the value of Application ID to fill in for the **Clientid** field in the service config file.

民 0365 Email Connector		
	📋 Delete 🛛 Endpoints	
🗮 Overview	6 Got a second? We would love your feedback on Microsoft identity platform (previously Azure Al	D for developer). $ ightarrow$
🖗 Quickstart	Display name : O365 Email Connector	Supported account types : My organization only
Manage	Application (client) ID :	Application ID URI : Add an Application ID URI
😑 Branding	Object ID :	Managed application in : O365 Email Connector
Authentication	۸	8
📍 Certificates & secrets	• Welcome to the new and improved App registrations. Looking to learn how it's changed from A	pp registrations (Legacy)? Learn more
API permissions		
🔷 Expose an API	Call APIS	Documentation
- Owners		Microsoft identity platform Authentication scenarios
🔓 Roles and administrators (Previ		Authentication libraries Code samples
🔟 Manifest 🧿		Microsoft Graph Glossary Help and Support

4. Click on Manifest option to edit the application Manifest You need to edit the manifest of the Azure application by adding/editing an object in the current JSON



}]

. Overview	The editor below allows you to update this application by directly modifying its
- OTCHING	manifest.
Quickstart	1 (
	2 "id": "8e0751e7-bad6-4249-84df-ea77c5a3d534".
Manage	3 "acceptMappedClaims": null.
E Dava dia a	4 "accessTokenAcceptedVersion": null,
Branding	5 "addIns": [].
Authentication	6 "allowPublicClient": null.
	7 "appId": "becbb7df-2c38-46ca-96c9-51fbd983a3f1",
📍 Certificates & secrets	8 "appRoles": [].
ADI magnizzione	9 "oauth2AllowUrlPathMatching": false,
API permissions	10 "createdDateTime": "2019-11-01T09:58:58Z",
Expose an API	11 "groupMembershipClaims": null,
	<pre>12 "identifierUris": [],</pre>
R Owners	13 "informationalUrls": {
Delas and administrations (Dravi	14 "termsOfService": null,
Roles and administrators (Previ	15 "support": null,
🔟 Manifest 🕢	16 "privacy": null,
	17 "marketing": null
Support + Troubleshooting	18 },
	19 "keyCredentials": [
🥟 Troubleshooting	20 "customKeyIdentifier"; " <base64thumbprint>",</base64thumbprint>
New support request	21 "keyId"; " <keyid>",</keyid>
New support request	<pre>22 "type": "AsymmetricX509Cert",</pre>
	23 "usage"; "Verify",
	<pre>24 "value"; "<base64value>"],</base64value></pre>

The values to the "customKeyIdentifier", "keyId", "value" can be found in the certificate generated using the Puzzel certificate tool.



Certificate Generation		
Certificate valid from:	Certificate name:	
30/10/2019	Trial	
Certificate valid to:		
31/10/2019	Generate	
Certificate Information		
Select certificate:		
Trial	~	Export
3ase64 value: 🧐		
+/USI/2F/07/EM2/F03dBr/103dBr/108/WINA +/EwuQKS/9GdHK/HD/R8dDW65U/dFD +DuoNaou4Ap/xXKH+oMk+bQBZTBV7 +OuoNaou4Ap/xXKH+oMk+bQBZTBV7 +0Jde8BvEcYFddJCMe373PG2+0+Ee/ +U7e6BjXJJ9T5JWa71JAgMBAAGPTE	<pre>i7m2k3v2L6iINo4d7kTXQGbQC6; +M/xD+AuouXiAzellxxZ0 aCsxgXq 7u27vHkhTMi31Vy/WzqNP77MN 7u29NCghe508HmrTSrge6vFhw/d /yqCm2hzZJNpggfX0QZlaKJpSYS IDMEEGA1UdAQG6MDAEChdn2 01.044/L0x4w1D9.W52x4EA.bt</pre>	/opsil.onUtiV6c 22e0W I EMW zł nak/5swpTGzCAyfk ak/5swpTGzCAyfk
A USI 22 KV FLIP TO SABAR INS ANK AS INSIGE SMX 2017 (2PAPE) SKYD (5U) UdFD 40 uN4sau 44, pXX 1H + 40 BZ 15 V) 40 ude 80 vE o'YE dul DM 87 29 Po Z-0 - E o' 40 ude 80 vE o'YE dul DM 87 29 Po Z-0 - E o' 40 ude 80 vE o'YE dul DM 87 29 Po Z-0 - E o' 40 ude 80 vE o'YE dul DM 87 29 Po Z-0 - E o' 40 ude 80 vE o'YE dul DM 87 20 Po Z-0 - E o' 40 ude 80 vE o'YE dul DM 87 20 Ude 80 vE o' 40 ude 80 vE o'YE dul DM 87 20 VE o' 40 ude 80 vE o'YE dul DM 87 20 VE o' 40 ude 80 vE o'YE dul DM 80 vE o'YE o'YE o'YE o'YE o'YE o'YE o'YE o'Y	7m2:952LBIN04d7k170(EbUC3) 7x17-Hkbr1Mi91Vy/W-apN7/Mk iya0cabsethm15tge6xFbw80 ya0cabsethm15tge6xFbw80 ya0cabsethm22Npgg04002takUpS75 QL0kkL0w7a0D5W153aKFDAB IB07Uzon/aqPMc508UDCU382a6 J7g98tmw04sv98thw1454U41Ta J3M68kU0A5CD+44Pq4A6m2d Ndm68EUA9h500pdf2x40o XV5KUg54xajh5V00AxEIN5UrPw	vostontitivise 22o0w I InaktiswpTGzCAytk glifogMCHQLIAA41 glifogMCHQLIAA41 glifogMCHQLIAA41 glifogMCHQLIAA41 f5zEeBiP #ktgT8Vu2
470372FWEIPT04384FM 04384FM 04384FM =wuldieSmk070778PAPFSKYD/5U04H =EwuldieSmk074KH+6MH+6D82T074 =BudeStechTedst0Me379Fp2-0-Ee/ =Urde6gk1094TW/a71AaMBAAGFT Urde6gk1094TW/a71AaMBAAGFT Urde6gk1094TW/a71AaMBAAGFT Urde6gk1094TW/a71AaMBAAGFT SabA22japat/KND5hL =XKMMGn2t0AgP7EN/R0846FMcA750 SaUMKNinMASUC3uGAP0FS7eM6 H226Dy-XMRNinMASUC3uGAP0FS7eM6 H226Dy-XMRNinMASUC3uGAP0FS7eM6 H226Dy-XMRNinMASUC3uGAP0FS7eM6 H226Dy-XMRNinMASUC3uGAP0FS7eM6 H226Dy-XMRNinMASUC3uGAP0FS7eM6 H226Dy-XMRNinMASUC3uGAP0FS7eM6 H226Dy-XMRNinMASUC3uGAP0FS7eM6 H226Dy-XMRNinMASUC3uGAP0F =F0buecqtLisBn/NKTTNcVT3Lc84cEd +P5NJH3PWho92FJ3RmNEGoquQbw/k	Im24:952LBINA6d7k170GbDC3 MiX0=Aux0KAgetlix2D62bsg/kg /7u7wHkhTMr91VyWvapNP7MW yoCn2hx2Nbpg/K002IakUpSY /00C2bsg/k002IakUpSY 00DEG6A1U4A00BMD4ECD4h2 QL0kKLCwYotD9wlS3aKFDAJB IG07Uzon/aqPMc508JDCU30Za6 /7g8tmw04w38thW4G4U4T_9 /3m68kQ10x501+dvFqAg6mv4 Ndm5e5LA9h500ptdF2x40o /7V5KUg54wajhSV000xEINSUrPw	JopLEntitive 22oOW I EMW al nakf5swpTG2CAylk gUrDgMCHQL&A4I gUrDgMCHQL&A4I adlrc9iqiQ/b9/7ux4 C2Ma02/sMo2BPJ iddrc9iqiQ/b9/7ux4 EXEEGP #KigT8Vu2 To clipboard
HOST2FKVERPT04384FK105430FK105004 High Standard	/m2/s9/s2LBIN/04d7k170(bb02) /m2/s9/s2LBIN/04d7k170(bb02) /m2/s4lbar1/s10(bb02) /m2/s4lbar1/s10(bb02) /m2/s2lbap2/002lak1/s9/s /g0/s4lba2lbap2/s02lak1/s9/s /g0/s4lba2lba2lbap2/s4lba2lba2lba2 /g0/s4lba2lba2lba2lba2lba2lba2lba2 /g0/s4lba2lba2lba2lba2lba2lba2lba2lba2 /g0/s4lba2lba2lba2lba2lba2lba2lba2lba2lba2 /g0/s4lba2lba2lba2lba2lba2lba2lba2lba2lba2lba2	Jop La hillivise 22 a DW I MW al nak/5swpTG2CAylk gli/DgMCHQUAA4I gli/DgMCHQUAA4I state63pp 15st e68P KitgT8Vu2
HOST/2FKVERPT04384FM 04346FM 04346FM HourAsoutAs(70/78PA/FSKT0/50/2014) EvunAsoutAs(70/78PA/FSKT0/50/2014) EvunAsoutAs(78) Audes89xEc/YEd3UCMe379F02-0-Ee/ -PunPs6x20/2014/11/2014/2014/2014/2014/2014/2014	/m2/93/22LBIN/04d7k170(bb02) /m2/94/24Bit2005/stg8/q /7/07-HIkhTMr91V/WVapIP7/MW ydpa/ba2lNpgg/0021ak/L9579 /gD0/bt200000000000000000000000000000000000	Job Linitivise 22o0W I MW al Indi/SswpTG2CAylt Indi/SswpTG2CAylt Indi/Ssig(0/b9/7uxM C2Mad/24Mo2BRid I5xE eBiP KitgT8Vu2 To clipboard To clipboard
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Set up permissions

To set up the permissions for syncing the emails, do the following:

- 1. Go to https://portal.azure.com/, and open Azure Active Directory -> App registrations and select the application you just created.
- 2. Select API permissions and click on Add a permission button

Search (Ctrl+/) Overview Quickstart	API permissions Applications are authorized to call APIs winclude all the permissions the applicatio	when they are granted n needs.	l permissions by users/admins as part c	of the consent process. The list of configured permissions shoul
Manage	API / Permissions name	Type	Description	Admin Consent Required Status
Branding	✓ Microsoft Graph (1)	.900	besenption	
	User.Read	Delegated	Sign in and read user profile	
API permissions Expose an API	These are the permissions that this appli- able permissions dynamically through co	cation requests static de. See best practice	ally. You may also request user consent- es for requesting permissions	
Concerning	Grant consent These permissions have been granted fo permissions, you should consider adding Grant admin consent for Development Pu	r undefined but aren ; them to the configu	t in the configured permissions list. If yo red permissions list.	our application requires these
 Troubleshooting New support request 				

3. Select Office 365 exchange Online option under Api's my organization uses tab and select Application permissions



Request API permissions

Select an API		
Microsoft APIs	APIs my organization uses	My APIs
Apps in your direc	tory that expose APIs are show	n below
∽ Start typing ar	API name or Application ID	
Name		Application (client) ID
Microsoft Forms		c9a559d2-7aab-4f13-a6ed-e7e9c52aec87
Microsoft.MileIQ.	Dashboard	f7069a8d-9edc-4300-b365-ae53c9627fc4
Skype Presence S	ervice	1e70cd27-4707-4589-8ec5-9bd20c472a46
Azure DevOps		499b84ac-1321-427f-aa17-267ca6975798
Windows Notifica	tion Service	04436913-cf0d-4d2a-9cc6-2ffe7f1d3d1c
DeploymentSched	luler	8bbf8725-b3ca-4468-a217-7c8da873186e
Skype for Busines	5	7557eb47-c689-4224-abcf-aef9bd7573df
Microsoft Service	Trust	d6fdaa33-e821-4211-83d0-cf74736489e1
Office 365 Exchan	ge Online 📀	00000002-0000-0ff1-ce00-00000000000
Office 365 Manag	ement APIs	c5393580-f805-4401-95e8-94b7a6ef2fc2
Microsoft StaffHu	b	aa580612-c342-4ace-9055-8edee43ccb89

4. Select Mail.Read Option and Click on Add permission.

All APIs	
Exchange	
https://outlook.office365.com/ Docs 2	
what type of permissions does your application require?	
Delegated permissions	Application permissions
Your application needs to access the API as the signed-in user.	Your application runs as a background service or daemon without a signed-in user.
Select permissions	expan
Type to search	
Permission	Admin Consent Required
full_access_as_app Use Exchange Web Services with full access to all mailbox	es 🗊 Ves
> Calendars	
> Contacts	
> Mailbox	
> MailboxSettings	
∨Mail (1)	
🚯 🖂 Mail.Read	Vec
Read mail in all mailboxes 🛈	TES
□ Mail.ReadWrite Read and write mail in all mailboxes ⊙	Yes
□ Mail.Send Send mail as any user ①	Yes
Send mail as any user	162

5. The following screen will appear prompting you to grant consent as an Admin. Click on the button shown in the picture below and select **Yes** to confirm



A You are adding permission(s) to you	ur application, users will h	ave to consent even if they've already do	ine so previously.	
Configured permissions				
Applications are authorized to call AP include all the permissions the applic	Pls when they are grante ation needs. Learn mon	d permissions by users/admins as p e about permissions and consent	part of the consent process. Th	e list of configured permissions should
+ Add a permission Gr	ant admin consent for	Development Puzzel		
API / Permissions name	Туре	Description	Admin Consent	Requir Status
→Exchange (1)				•••
Mail.Read	Application	Read mail in all mailboxes	Yes	🛕 Not granted for Develop 🚥
∽Microsoft Graph (1)				•••
User, Read	Delegated	Sign in and read user profile	-	•••

6. The application will now have the permissions configured.

cations are authorized to call APIs v				
cations are authorized to call APIs V			+ - f + h +	
le all the permissions the applicatic	wnen tney are grant on needs. Learn mor	ed permissions by users/admins as pa re about permissions and consent	t of the consent process. The list of c	onfigured permissions should
Grant Grant	t admin consent foi	r Development Puzzel		
API / Permissions name	Туре	Description	Admin Consent Requir	Status
←Exchange (1)				
←Exchange (1) Mail.Read	Application	Read mail in all mailboxes	Yes	••••