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LEAD WITH DATA QIKQ

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Connecting Catalog to Power BI

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To start the integration process between Qlik Catalog and PowerBI, you will have to first create a Qlik catalog application on Azure AD Portal. This application can then be used to provide the required API permission for the Qlik Catalog users as well as to get the client-id, tenant-id and other information. All of this is used by Qlik Catalog to get the access token to call the REST APIs.

Once the application is set-up on Azure AD, the client-id, tenant-id, and client_secret has to be provided to Qlik Catalog for Catalog to successfully upload the data to PowerBI. This information will be entered into Qlik Catalog \rightarrow Admin \rightarrow System Settings. An administrator will go to System Settings and put the three values here which will be copyied/ pasted from the Azure AD app they have created to Qlik Catalog. Please note that this is a one time exercise and doesn't need to be done by every user. It's a global setting.

For the integration to work correctly, the Qlik Catalog server must be able to communicate with the Microsoft authorization end-point - this is especially important for the offline installs.

After setting up these properties, a user can click the Publish to Power BI button from the top My Cart menu - once clicked, the user will be taken to the Microsoft login page - they will provide their creds to Microsoft and then allow Qlik Catalog to read dataset & workspace related items from their workspace.

First, go to https://aad.portal.azure.com/ and create a new application.

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Azure Active Directory admin	n center			G 🖉 🚳	? 🙄 EXT_BKV@qlik.com
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All services FAVORITES Azure Active Directory Cusers Enterprise applications	All General Identity Security	GENERAL (1) Pelip + support IDENTITY (15) Azure Active Directory Users Enterprise applications Identity Governance Azure AD Identity Protection	★ ★ ★ ☆ ☆ ☆	 Groups Azure AD Connect Health App registrations Azure AD Conditional Access Azure AD Security User settings 	→ × ×
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1) First click on "All Services" followed by a click on "App Registrations"

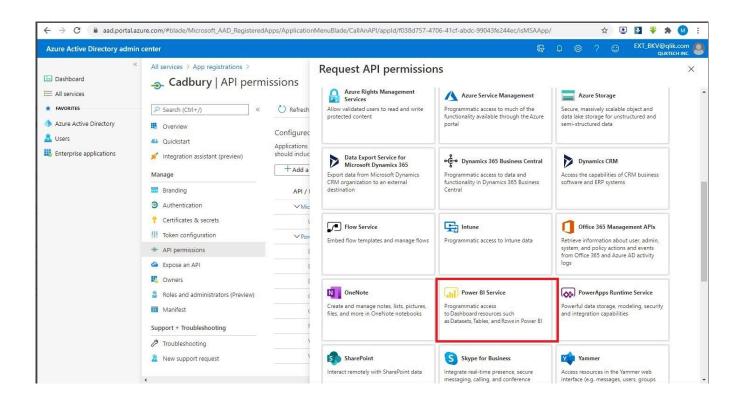
2) Click on "+ New Registration"

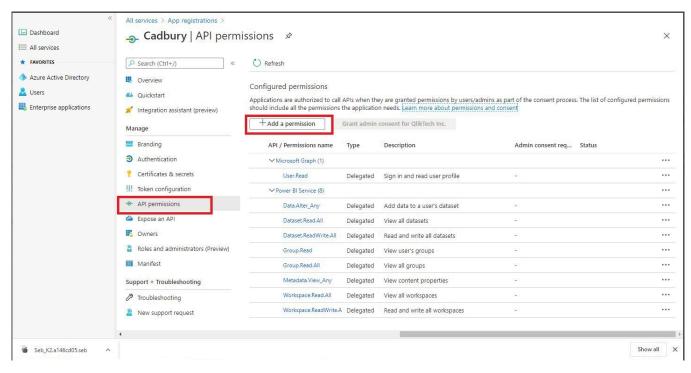
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 Clashboard All services FAVORITES Azure Active Directory Users Enterprise applications 	All services > App registrations							X

3) Provide the required info for the highlighted boxes below. Please note that your app name must be unique but can be any name. In the Redirect URI are at the bottom, make sure Web is selected and your URL must match the Qlik Catalog install URL. For example, if you are running cadbury on <u>https://cadbury.corp.podiumdata.com:8443/qdc</u>, then your redirect url will be <u>https://cadbury.corp.podiumdata.com:8443/qdc/powerbi/recieveCode</u>.

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Azure Active Directory admin center						٢	EXT_BK\	/@qlik.cor QUKTECH IN	n 🧕
Azure Active Directory admin of Cashboard All services Azure Active Directory Azure Active Directory Cases Users Enterprise applications	enter All services > App registrations > Register an application * Name The user-facing display name for this application (this can be changed later). [dilk-catalog Supported account types Who can use this application or access this API? () Accounts in this organizational directory (Any Azure AD directory - Multitenant) () Accounts in any organizational directory (Any Azure AD directory - Multitenant)	G		0	?		EXT_BKV	(@qfik.co)	X
	Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox) Help me choose Redirect URI (optional) Well return the authentication response to this URI after successfully authenticating the user. Providing this now is optional and it can be changed later, but a value is required for most authentication scenarios. Web Inttps://cadbury.corp.podium/data.com:8443/qc/powerbi/recieveCode By proceeding, you agree to the Microsoft Platform Policies C ^a Register								

4) You will now need to provide the necessary permissions to this app. Please go to the following screen and grant the following permissions:





Qlik Catalog will require the following permissions:

- Data.Alter_Any
- Dataset.Read.All
- Dataset.ReadWrite.All
- Group.Read
- Group.Read.All
- Metadata.View_Any
- Workspace.Read.All

Workspace.ReadWrite.All

5) The next step is to create a client secret as below. Note down the client secret, this will not be visible to you the next time you come to this screen.

Azure Active Directory admin	center			Ģ	Q			٢	EXT_BKV@qlik.com	
 Control Dashboard All services 	All services > App registrations > Cadbury Certificate	es & secrets ≁							×	
 FAVORITES Azure Active Directory 	Search (Ctrl+/) « Overview	Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable to HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.								
Users Enterprise applications	 Quickstart Integration assistant (preview) Manage 	Certificates Certificates can be used as secrets to ① ① Dpload certificate	prove the application's identity when requesting a t	token. Also car	be ref	erred t	o as pu	ıblic keys	5.	
	Branding	Thumbprint	Start date			Expire	is			
	Authentication Certificates & secrets Token configuration	No certificates have been added for th	nis application.							
	API permissions Expose an API Conners	Client secrets A secret string that the application use + New client secret	es to prove its identity when requesting a token. Als	so can be refer	red to	as appl	lication	1 passwor	rd.	
	Roles and administrators (Preview)	Description	Expires	Value		**			C	
	 Manifest Support + Troubleshooting Troubleshooting New support request 	cadbury	12/31/2299	Zel********	*****				Û	

6) Finally, also copy your client and tenant Id by from the below link:

☐ Dashboard ⊟ All services	≪ All services > App registrations >			×
* FAVORITES		🗊 Delete 🜐 Endpoints		
Azure Active Directory Lysers	Overview Ouickstart	Got a second? We would love your feedback on Microsoft identity p	platform (previously Azure AD for developer). $ ightarrow$	
Enterprise applications	 Quickstart Integration assistant (preview) 	Display name Cadbury	Supported account types My organization only	î
	Manage	Application (client) ID f038d757-4706-41cf-abdc-99043fe244ec	Redirect URIs 1 web, 0 spa, 0 public client	
	Branding	Directory (tenant) ID c21eeb5f-f5a6-44e8-a997-124f2f7a497c	Application ID URI Add an Application ID URI	
	 Authentication Certificates & secrets 	Managed application in local directory Cadbury		
	Token configuration API permissions	Welcome to the new and improved App registrations. Looking to le	arn how it's changed from App registrations (Legacy)? Learn more	×
	 Expose an API Owners Roles and administrators (Preview) Manifest Support + Troubleshooting Troubleshooting New support request 	Call APIs	Documentation Microsoft identity platform Authentication scenarios Authentication cenarios Code samples Microsoft Graph Glossary Help and Support	

Sample configuration for internal testing:

Please go into Qlik Catalog \rightarrow Admin \rightarrow System Settings and provide the client id, tenant id and secret for PowerBI.

Also, please make sure **is.publish.to.powerbi.enabled** property is set to true.

You can 'Publish to Power BI' from the same areas as you do 'Publish to Qlik Sense'. The logs are available in the same modal as P2Q logs. Once published, you can view the new datasets in <u>https://app.powerbi.com/groups/me/list/datasets</u>

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About Qlik

Qlik is on a mission to create a data-literate world, where everyone can use data to solve their most challenging problems. Only Qlik's end-to-end data management and analytics platform brings together all of an organization's data from any source, enabling people at any skill level to use their curiosity to uncover new insights. Companies use Qlik to see more deeply into customer behavior, reinvent business processes, discover new revenue streams, and balance risk and reward. Qlik does business in more than 100 countries and serves over 48,000 customers around the world.

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