BI HUB

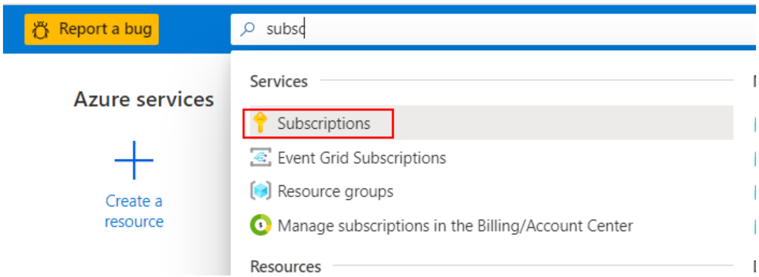
PRE-REQUISITES

INSTALL AZURE CLI

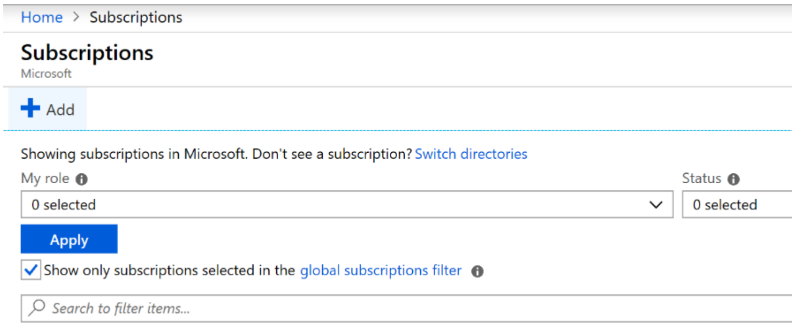
Available in Windows, macOS, and Linux platforms via this link, this gives you access to run the Azure Command-line interface (CLI)

CREATE A SUBSCRIPTION

1. Go to https://ms.portal.azure.com/#home
2. Search for Subscriptions



3. Select Add



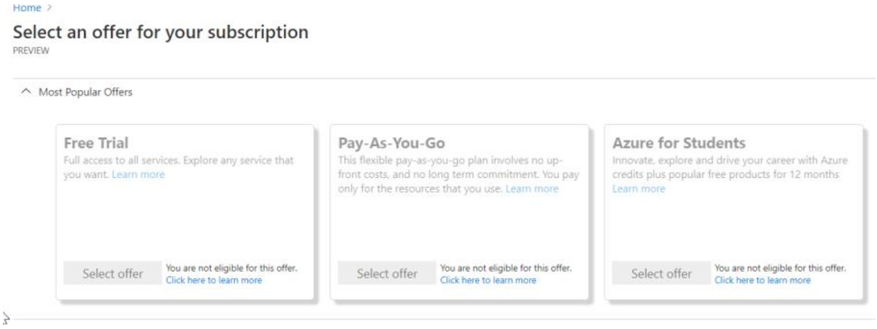
Showing subscriptions in Microsoft. Don't see a subscription? Switch directories

My role: 0 selected

Status: 0 selected

☑ Show only subscriptions selected in the global subscriptions filter

4. If you have access to multiple billing accounts, select the billing account for which you want to create the subscription



Free Trial: Full access to all services. Explore any service that you want. Learn more. You are not eligible for this offer. Click here to learn more

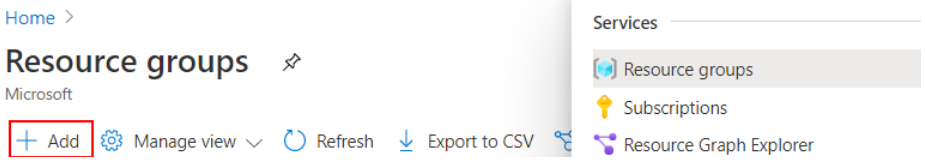
Pay-As-You-Go: This flexible pay-as-you-go plan involves no up-front costs, and no long term commitment. You pay only for the resources that you use. Learn more. You are not eligible for this offer. Click here to learn more

Azure for Students: Innovate, explore and drive your career with Azure credits plus popular free products for 12 months. Learn more. You are not eligible for this offer. Click here to learn more

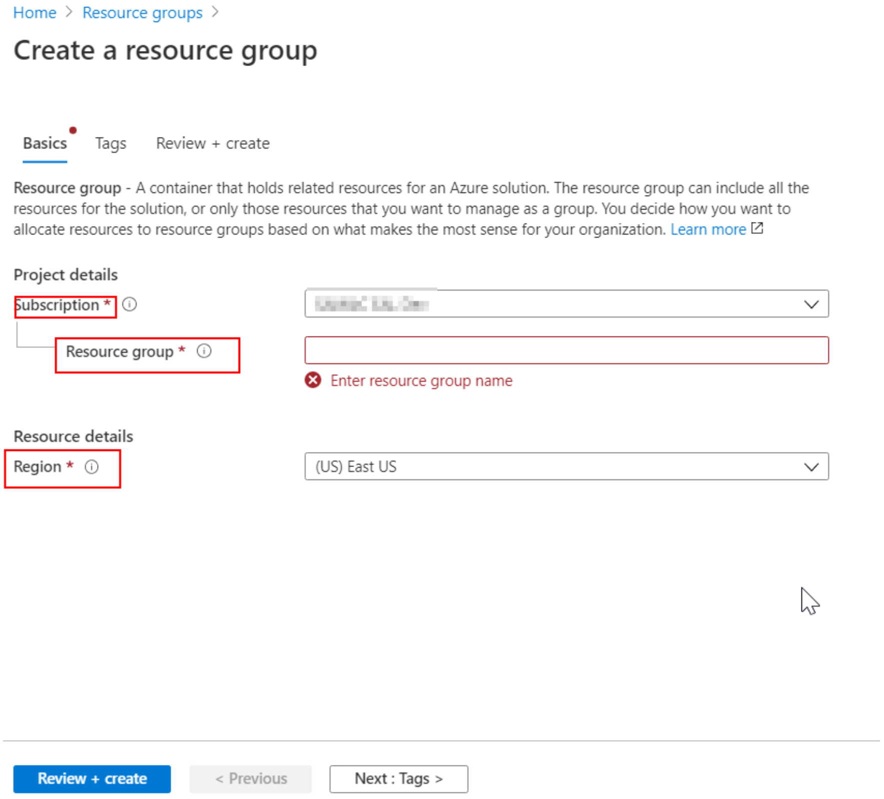
5. Fill the form and click Create

CREATE A RESOURCE GROUP

1. Search for Resource Group in the Azure Portal's Search bar and click on Resource Groups



2. Click on Add and Select the subscription on which you want to create the resource group. Give the Resource Group a name and select a region that's suitable as per your need
3. Click on Review + Create to create your resource group



Resource group - A container that holds related resources for an Azure solution. The resource group can include all the resources for the solution, or only those resources that you want to manage as a group. You decide how you want to allocate resources to resource groups based on what makes the most sense for your organization. Learn more

Project details

Subscription *

Resource group *

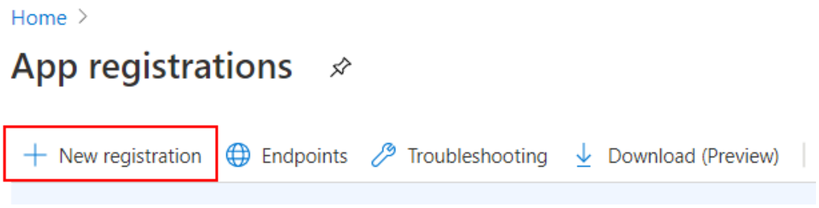
Enter resource group name

Resource details

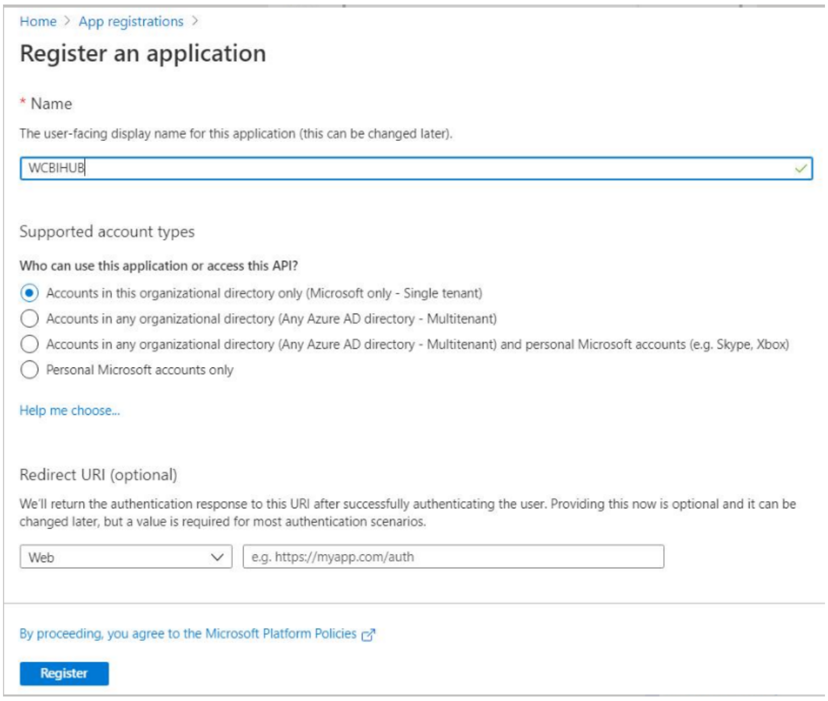
Region * (US) East US

CREATE A NEW AZURE ACTIVE DIRECTORY APP

6. Go to https://ms.portal.azure.com/#home
7. Open the App Registration page by clicking on this link and click on New Registration



8. Register your app by providing any name for it and click on Register



Home > App registrations >

Register an application

* Name

The user-facing display name for this application (this can be changed later).

WCBIHUB

Supported account types

Who can use this application or access this API?

● Accounts in this organizational directory only (Microsoft only - Single tenant)
○ Accounts in any organizational directory (Any Azure AD directory - Multitenant)
○ Accounts in any organizational directory (Any Azure AD directory - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
○ Personal Microsoft accounts only

Help me choose...

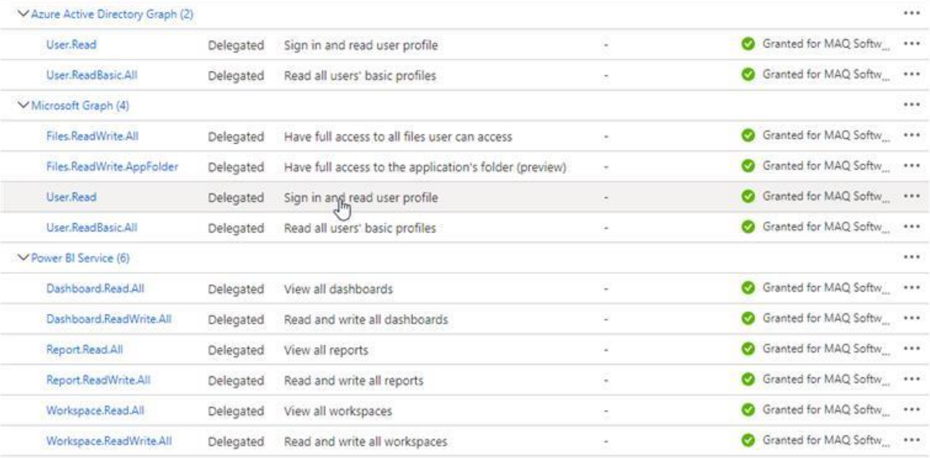
Redirect URI (optional)

We'll 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 | e.g. https://myapp.com/auth

By proceeding, you agree to the Microsoft Platform Policies

9. Go to API Permissions tab of your newly created app and provide access to the following API permissions:



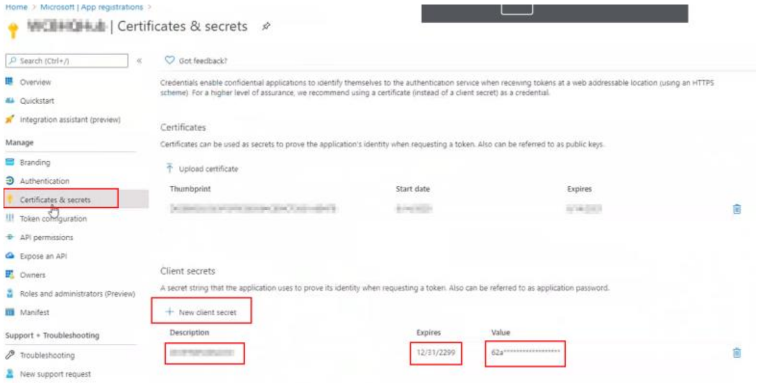
Azure Active Directory Graph (2)					•••
User.Read	Delegated	Sign in and read user profile	-	✓ Granted for MAQ Softw...	•••
User.ReadBasic.All	Delegated	Read all users' basic profiles	-	✓ Granted for MAQ Softw...	•••
Microsoft Graph (4)					•••
Files.ReadWrite.All	Delegated	Have full access to all files user can access	-	✓ Granted for MAQ Softw...	•••
Files.ReadWrite.AppFolder	Delegated	Have full access to the application's folder (preview)	-	✓ Granted for MAQ Softw...	•••
User.Read	Delegated	Sign in and read user profile	-	✓ Granted for MAQ Softw...	•••
User.ReadBasic.All	Delegated	Read all users' basic profiles	-	✓ Granted for MAQ Softw...	•••
Power BI Service (6)					•••
Dashboard.Read.All	Delegated	View all dashboards	-	✓ Granted for MAQ Softw...	•••
Dashboard.ReadWrite.All	Delegated	Read and write all dashboards	-	✓ Granted for MAQ Softw...	•••
Report.Read.All	Delegated	View all reports	-	✓ Granted for MAQ Softw...	•••
Report.ReadWrite.All	Delegated	Read and write all reports	-	✓ Granted for MAQ Softw...	•••
Workspace.Read.All	Delegated	View all workspaces	-	✓ Granted for MAQ Softw...	•••
Workspace.ReadWrite.All	Delegated	Read and write all workspaces	-	✓ Granted for MAQ Softw...	•••

CREATE A CLIENT SECRET KEY FOR YOUR APP

This secret will be used as a password for the PowerShell script which we will run. To create Client Secret:

1. Go to your app and from the Manage section, click on Certificates and Secrets

2. Click on New client secret and enter the name you want for your key and choose a date when the key will expire (preferably a few years later) as it is necessary



Credentials enable confidential applications to identify themselves to the authentication service when receiving tokens at a web addressable location (using an HTTPS scheme). For a higher level of assurance, we recommend using a certificate (instead of a client secret) as a credential.

Certificates

Certificates can be used as secrets to prove the application's identity when requesting a token. Also can be referred to as public keys.

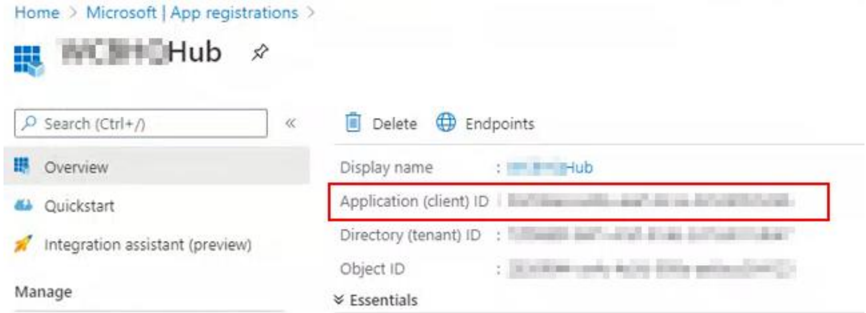
Thumbprint	Start date	Expires
[redacted]	[redacted]	[redacted]

Client secrets

A secret string that the application uses to prove its identity when requesting a token. Also can be referred to as application password.

Description	Expires	Value
[redacted]	12/31/2299	62a******************

3. Click on save and a key will be generated in the Value column of Client secrets section
4. Click on the Overview section to see your application's Application ID (app ID or client ID)

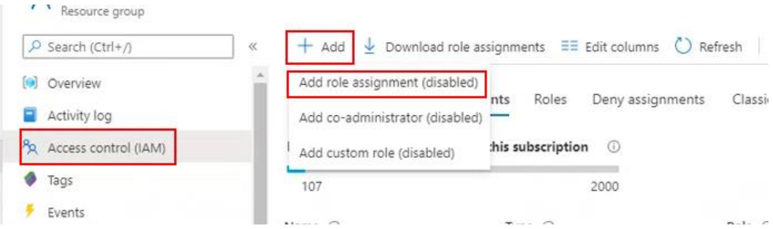


Display name : [redacted]Hub
Application (client) ID : [redacted]
Directory (tenant) ID : [redacted]
Object ID : [redacted]

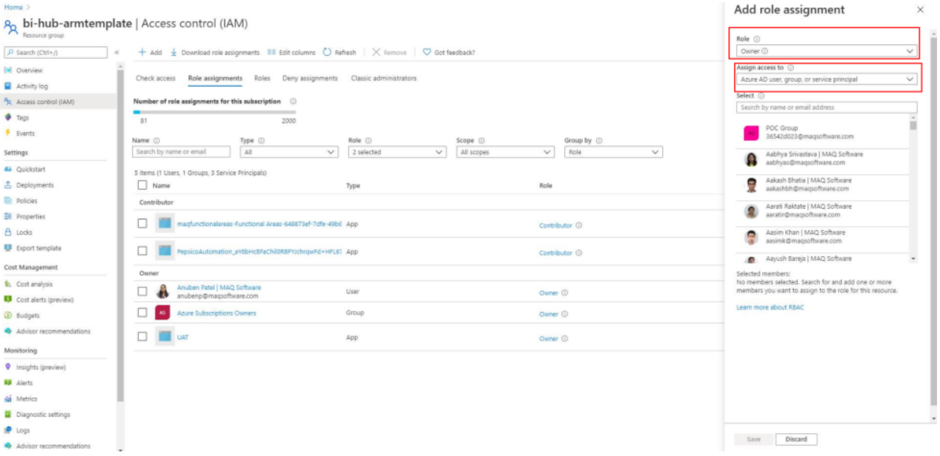
5. This Client ID will be used as the username for running all the CLI commands from PowerShell. The client secret key which we got from Step 3 will be the password

GIVE THE APP ACCESS TO THE RESOURCE GROUP:

1. Go to Access Control section of the resource group which you want to provide the app access to
2. Click on Add-> Add role assignment



3. In the role assignment bar on the left, Select the Role as Owner and select Azure ad user, group, or service principal in Assign access to. Search with the client ID of the app in the Select column and click on save to assign Owner access to the app



Number of role assignments for this subscription

81 2000

Name: Search by name or email
Type: All
Role: 2 selected
Scope: All scopes
Group by: Role

5 items (1 Users, 1 Groups, 3 Service Principals)

Name	Type	Role
Contributor		
maqfunctionalareas-Functional Areas-648873ef-7dfe-49b6	App	Contributor
PepsicoAutomation_aY6bHcBFaChil0RBPYJchrqwFd+HFL6	App	Contributor
Owner		
Anuben Patel | MAQ Software anubenp@maqsoftware.com	User	Owner
Azure Subscriptions Owners	Group	Owner
UAT	App	Owner

Add role assignment

Role: Owner

Assign access to: Azure AD user, group, or service principal

Select: Search by name or email address

POC Group
36542d023@maqsoftware.com

Aabhya Srivastava | MAQ Software
aabhyas@maqsoftware.com

Aakash Bhatia | MAQ Software
aakashbh@maqsoftware.com

Aarati Raktate | MAQ Software
aaratir@maqsoftware.com

Aasim Khan | MAQ Software
aasimk@maqsoftware.com

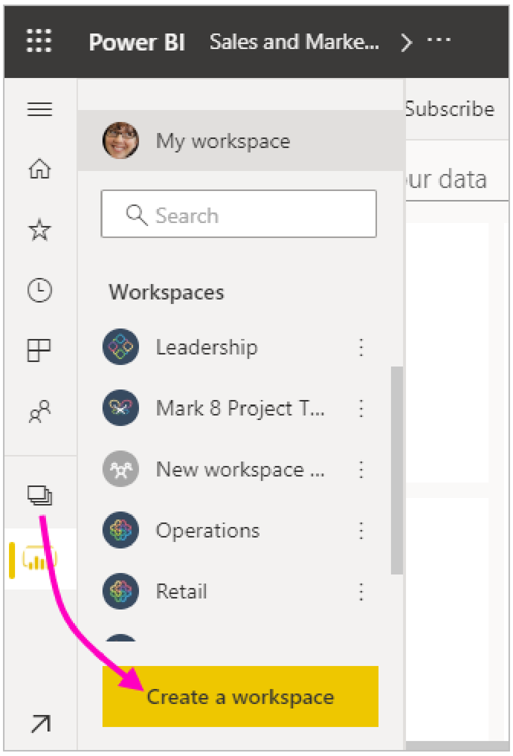
Aayush Bareja | MAQ Software

Selected members:
No members selected. Search for and add one or more members you want to assign to the role for this resource.

Learn more about RBAC

CREATE A POWER BI WORKSPACE:

1. Go to https://msit.powerbi.com/
2. Select **Workspaces > Create workspace**

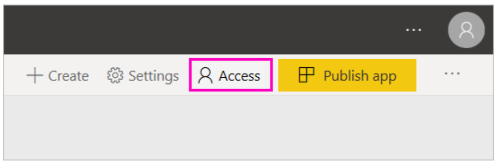


3. Here it will automatically create an upgraded workspace unless you opt to Revert to classic. If Revert to classic is selected, it creates a classic workspace based on a Microsoft 365 group
4. Give the workspace a unique name and click on **Save**

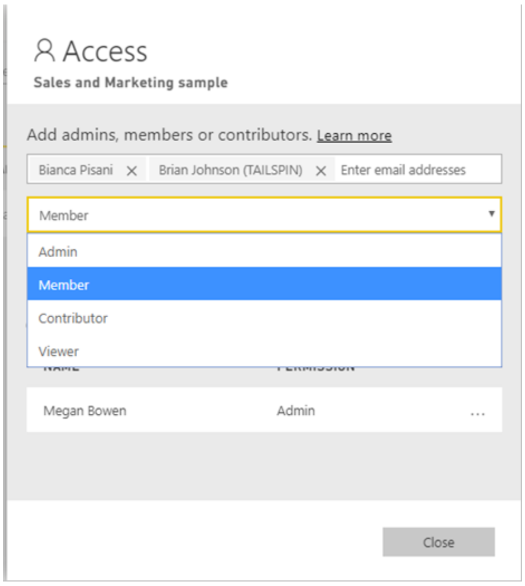
GIVE ACCESS TO YOUR WORKSPACE

1. People accessing BI Hub should have access Power BI workspace as we follow user owned data approach

2. Anyone with an admin role in the Workspace can provide access, admin on the workspace content list page, you see Access



3. Select Add to add security groups, distribution lists, Microsoft 365 groups, or individuals to these workspaces as admins, members, contributors, or viewers. Click on Close



Note: Published applications should be single tenant application only. To know more about publishing app, visit this link