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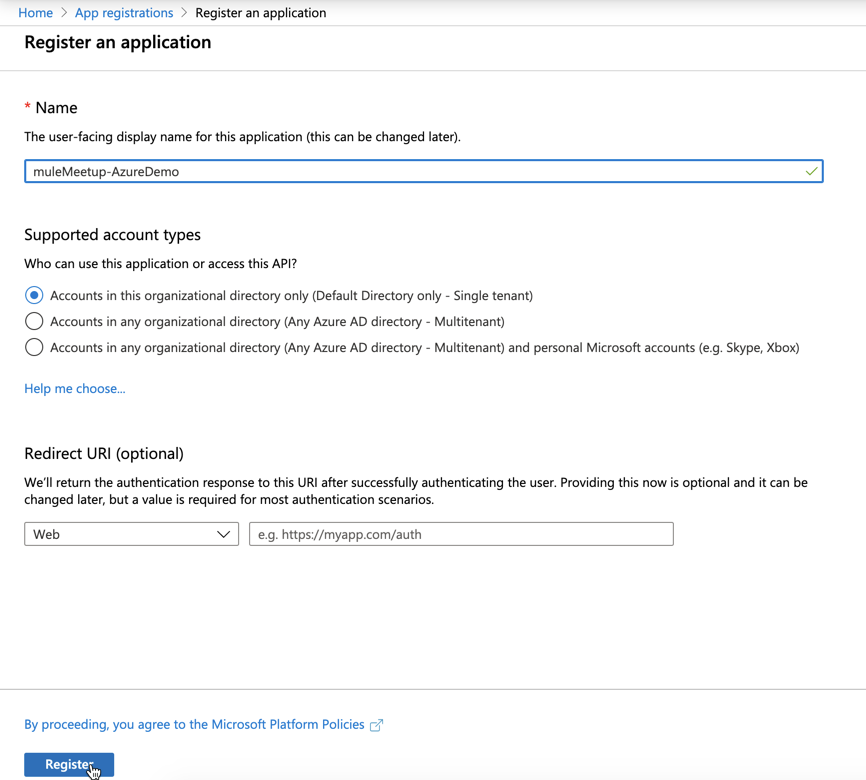
### Introduction

Below are simple ways by which a Key Vault and all pre-requisites could be retrieved in order to use Azure Key Vault REST APIs to retrieve Secrets.

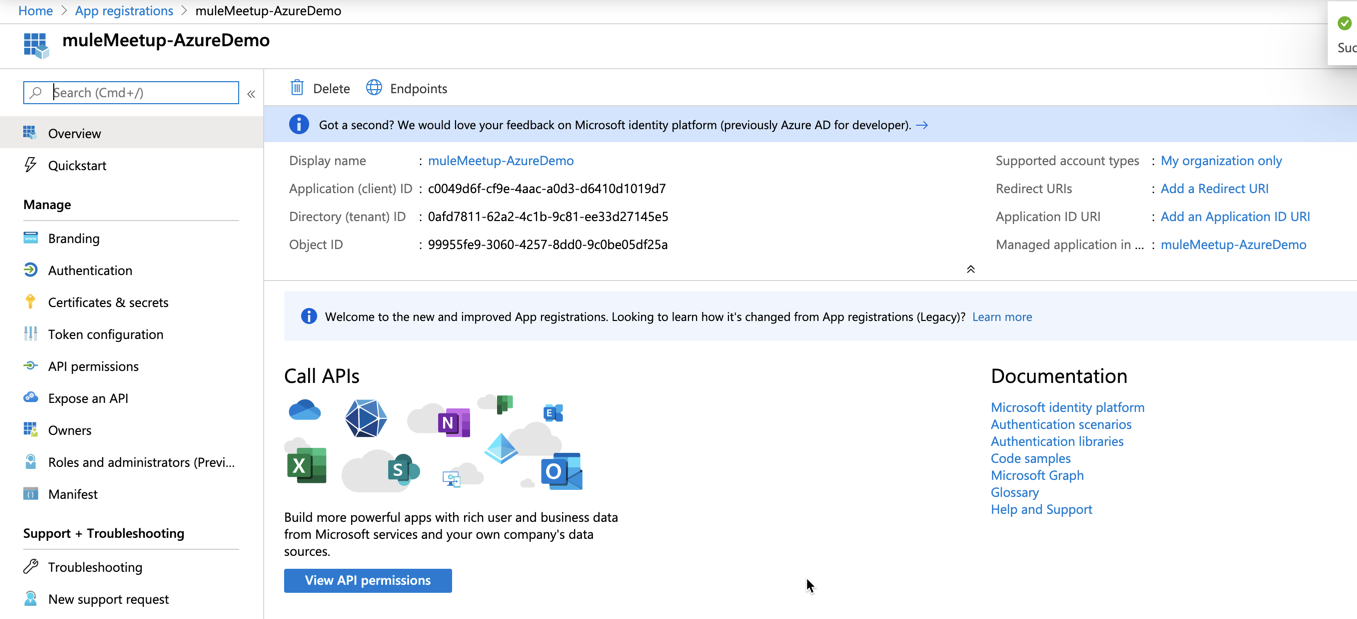
### Application Registration on Azure

***\*\*\*\* Please note that the app client id and secret will no longer work as its already been deleted \*\*\****

#### Step 1 : App Registration >> Create New Application

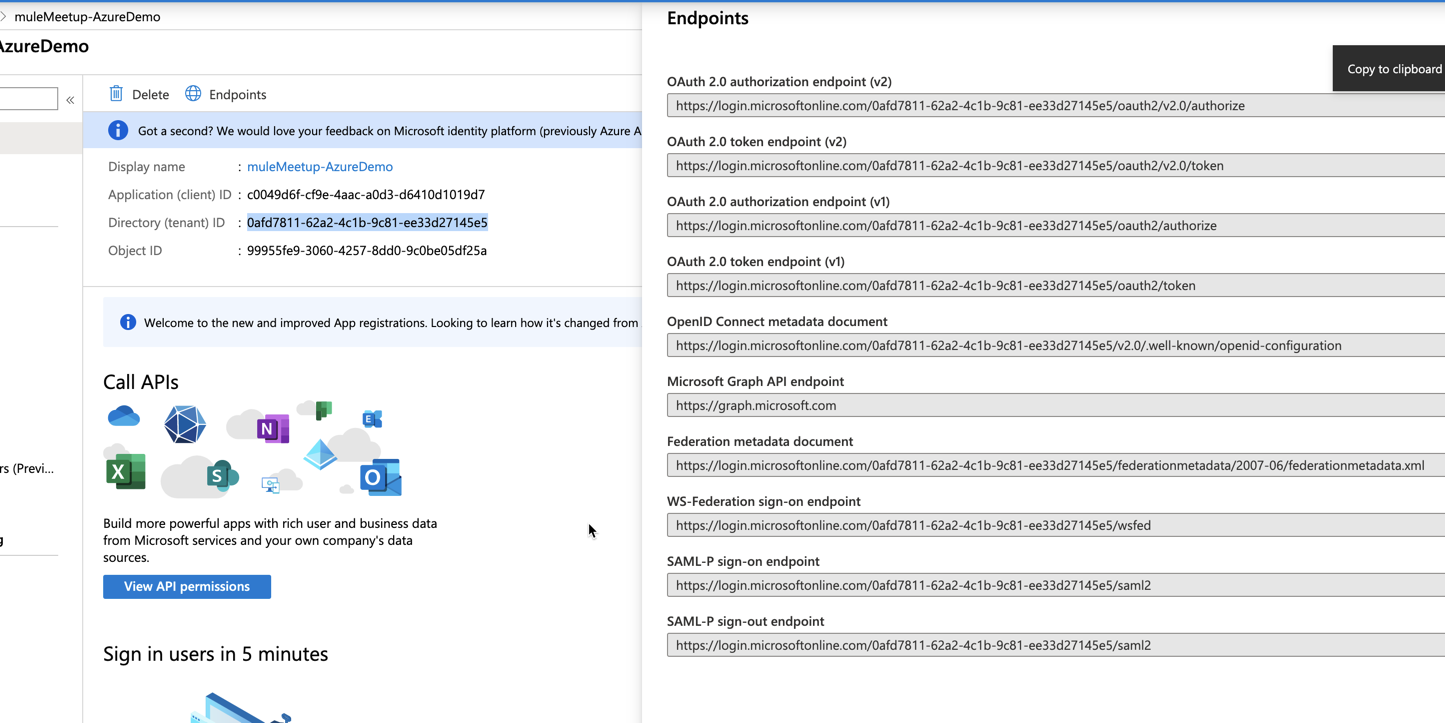


#### Step 2> Keep a note of Client ID, Tenant ID along with Endpoints required for this POC



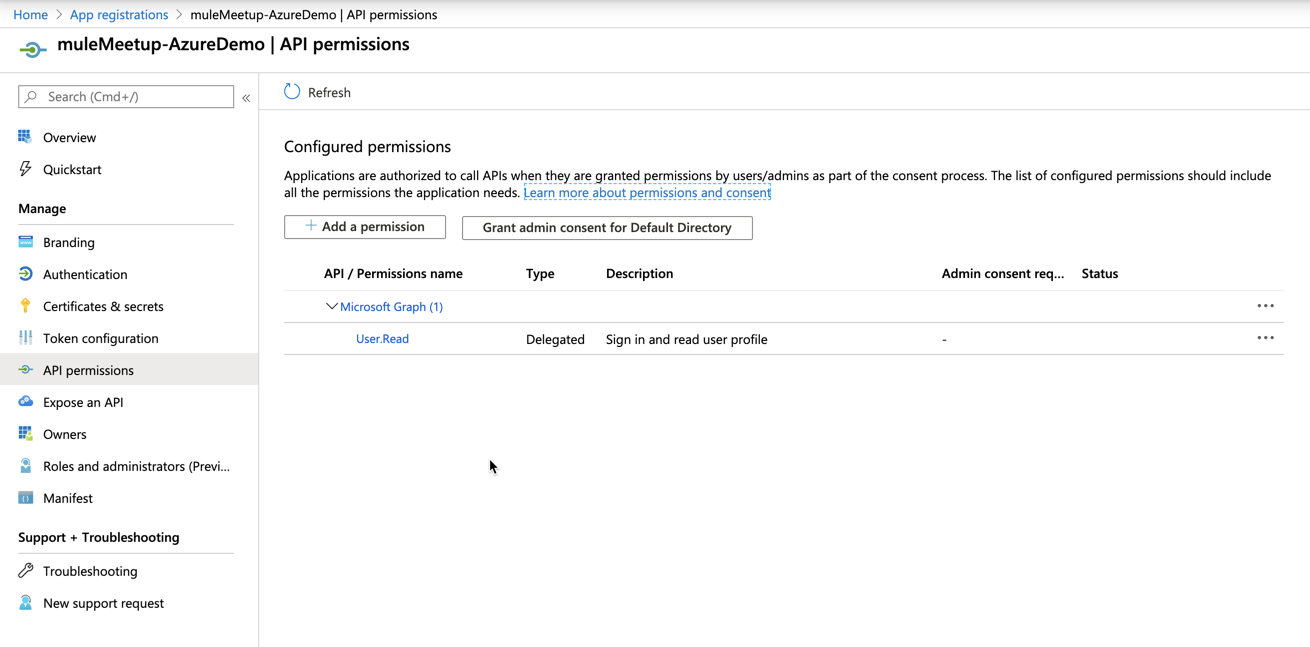
In this case:

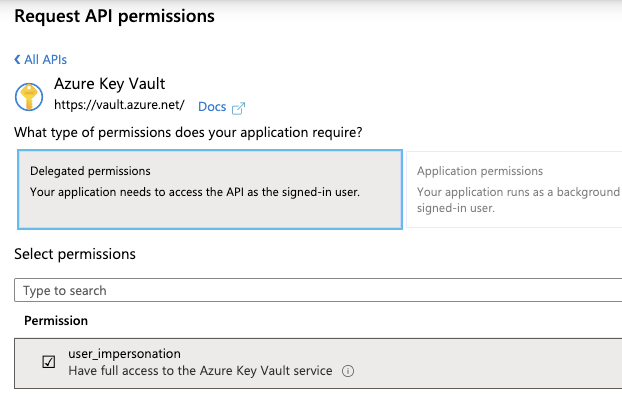
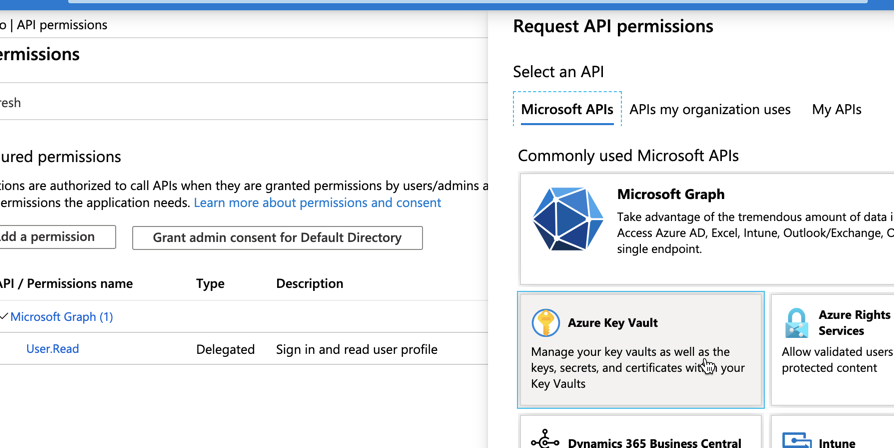
Client ID, Tenant ID, Endpoint URL to authenticate against Azure Cloud for the org.



*Note: Endpoint Which we would use :* [*https://login.microsoftonline.com/0afd7811-62a2-4c1b-9c81-ee33d27145e5/oauth2/token*](https://login.microsoftonline.com/0afd7811-62a2-4c1b-9c81-ee33d27145e5/oauth2/token)

#### Step 3> Providing Access to the Application for Azure Vault Service

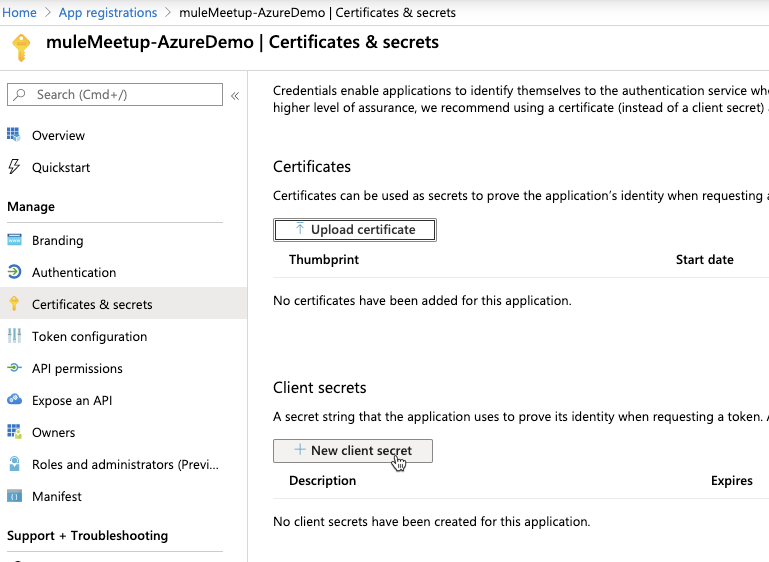




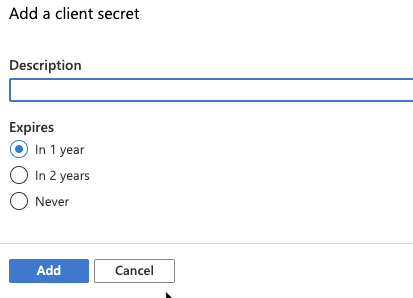
#### Step 4> Create a secret for the Application.

This is the client Secret to be used for the application.

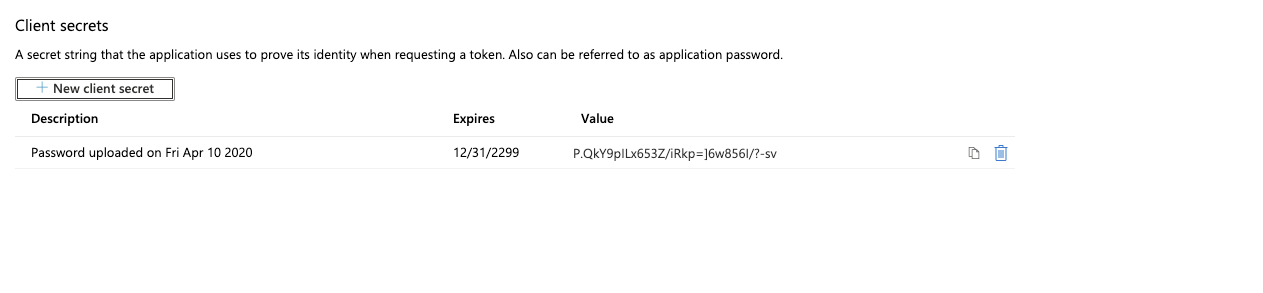
Certificates & Secrets



Provide a description and Expiry to the Client Secret.

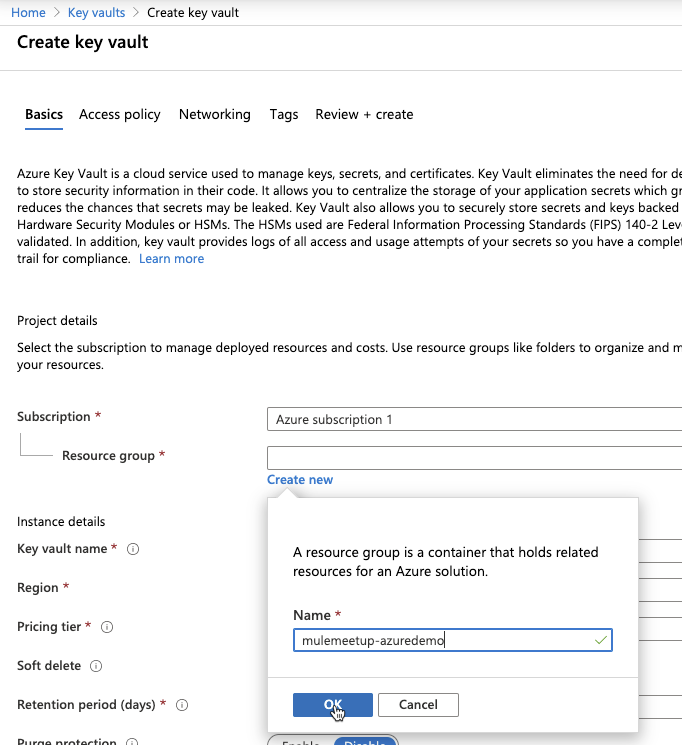


Copy the client secret

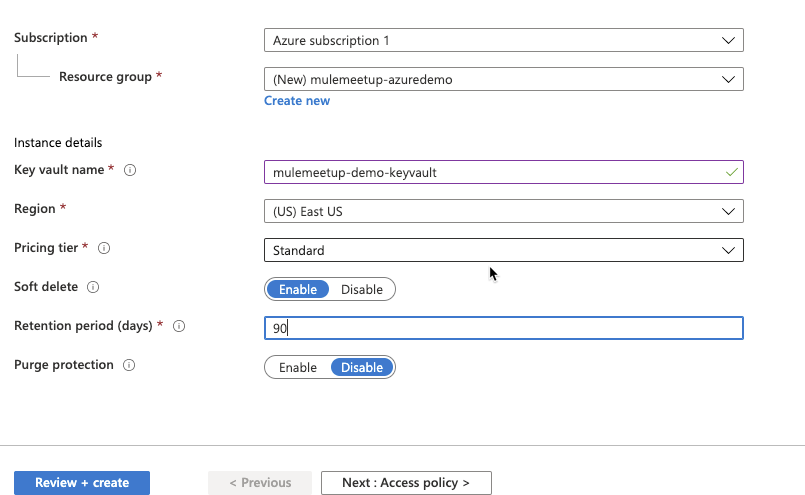


#### Step 5> Click a Resource Group >> create Key Vault

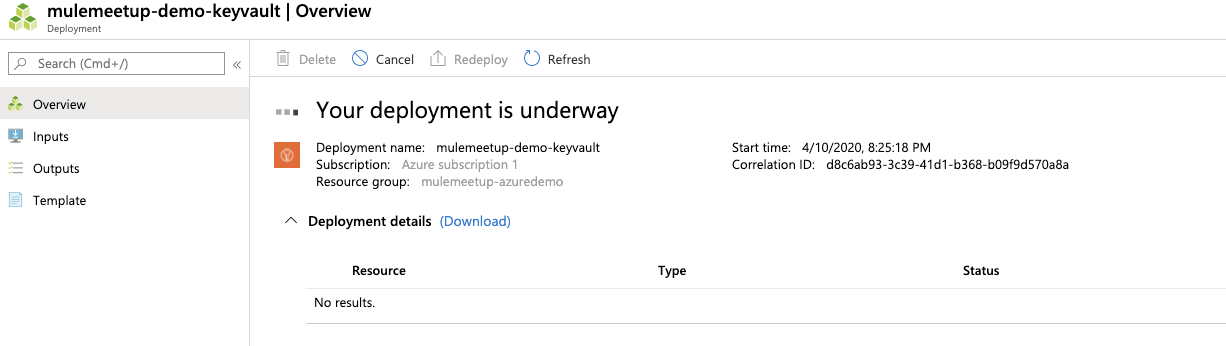
*This will be used to classify the Key Vaults.*



Key Vault Name creation



Review and Create >> Create



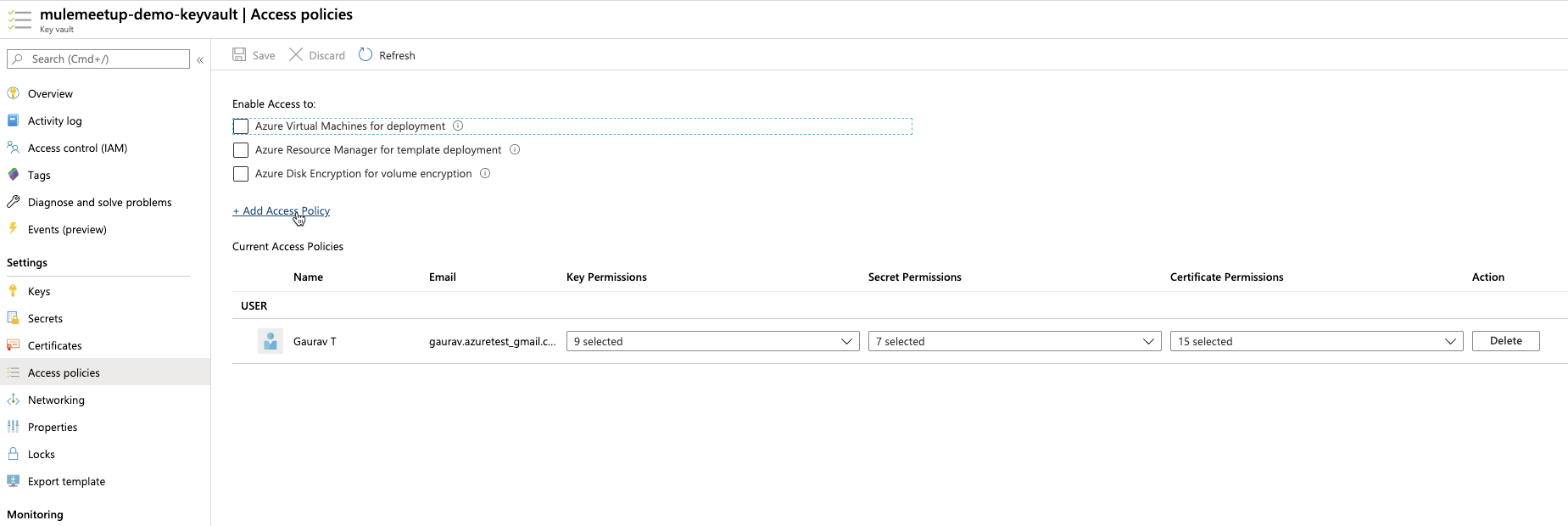
#### Step 6> Copy the vault Name and Vault URL

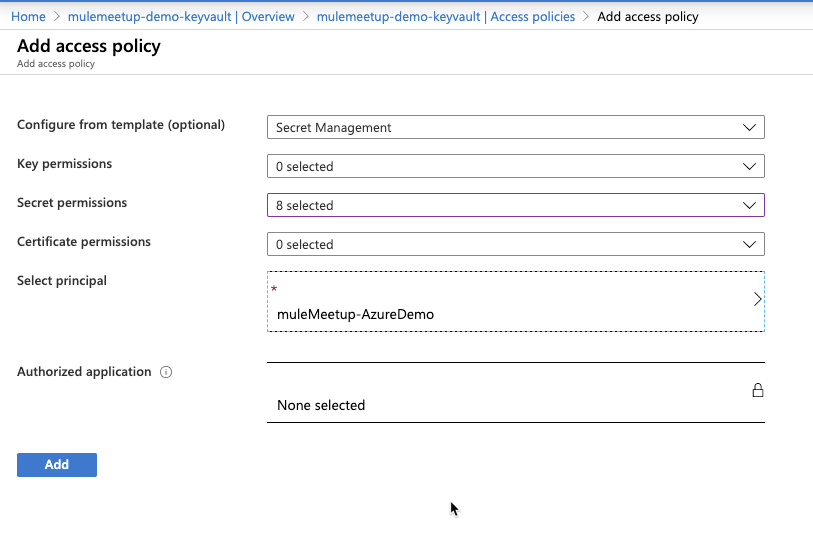
DNS Name: <https://mulemeetup-demo-keyvault.vault.azure.net/>

Vault Name: mulemeetup-demo-keyvault (**All lower case**)

#### Step 7> Provide access to the Application to the key Vault

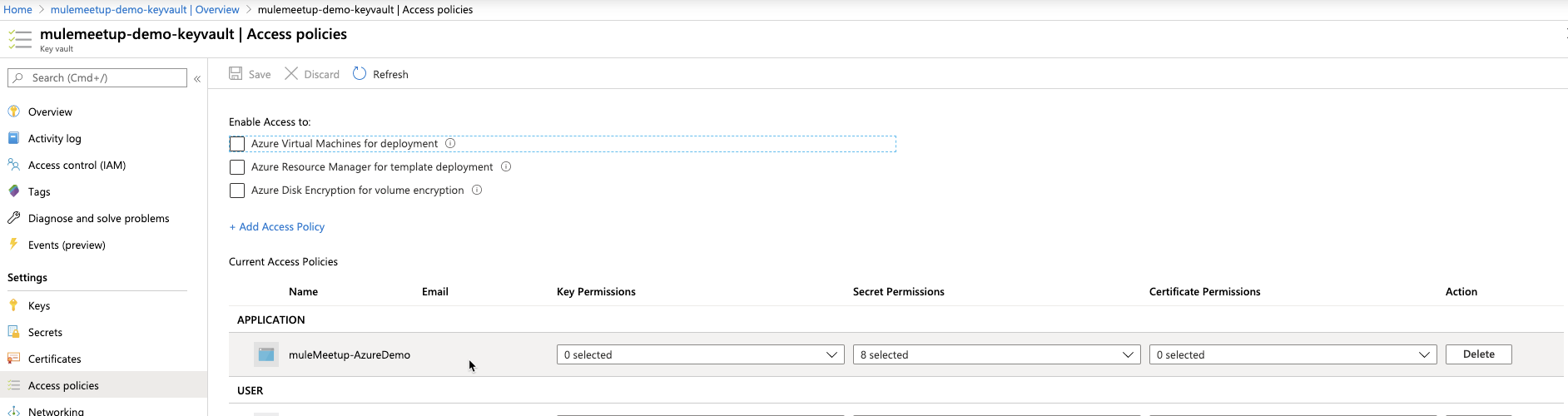
This has to be done within Access policies from Key Vault >>> Add Access Policy





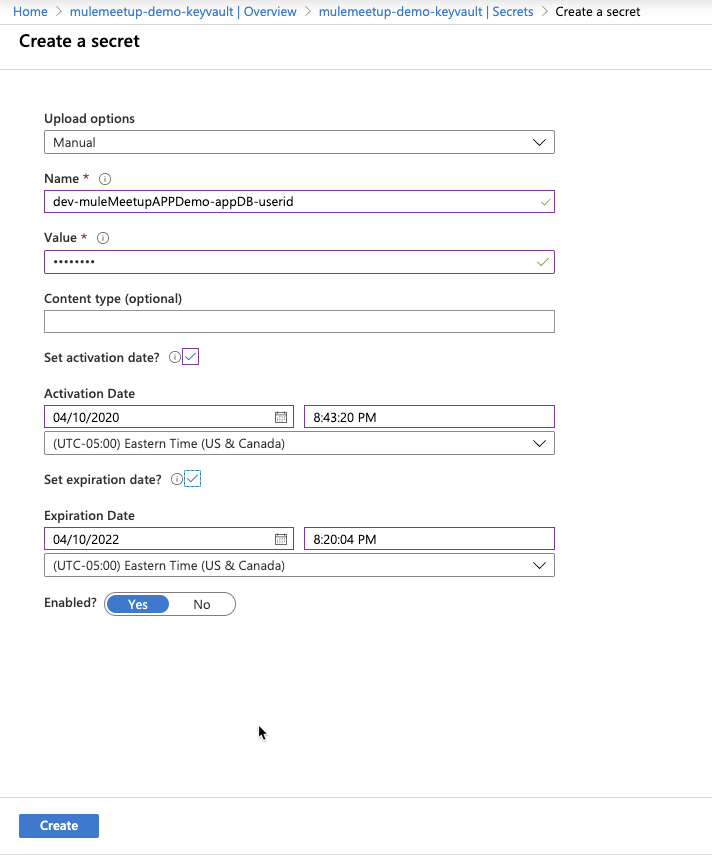
*Note: Note that Selecting Principal is mandatory and this is where you will select the Application which you created on previous steps*

**>>>> SAVE**



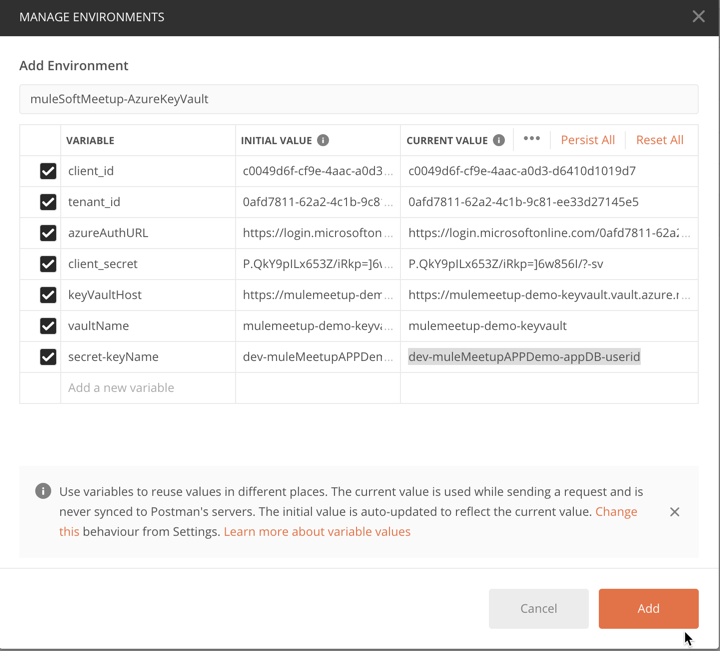
#### Step 8 >> Create a secret in Key Vault

Secrets are kept under “Secrets”

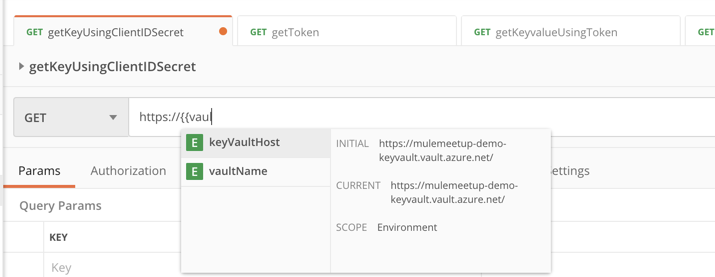


### POSTMAN testing of Key Vault API

#### Step 1> Setup environment variables (Better approach)

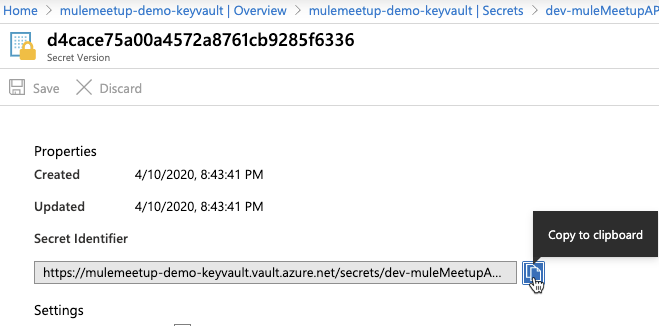


#### Step 2> Select the environment >> Configure Postman GET operation to hit Vault



*Note:*

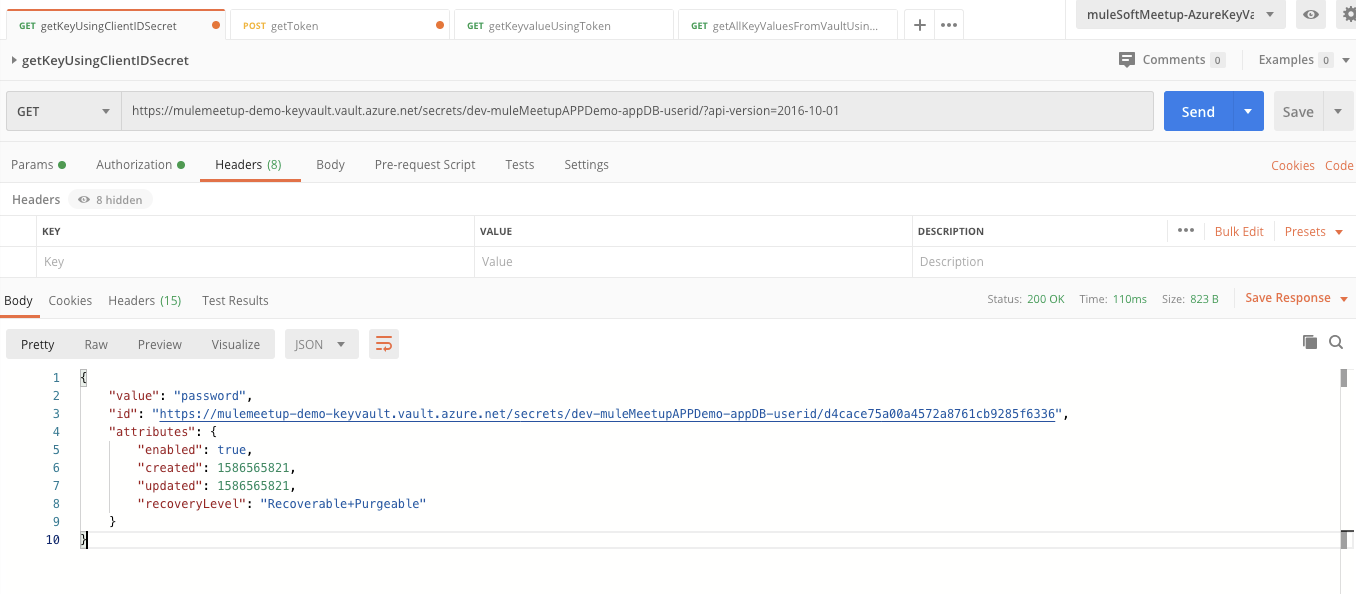
*Easy method to retrieve a single key : Copy the URL directly from Key Vault for the secret*



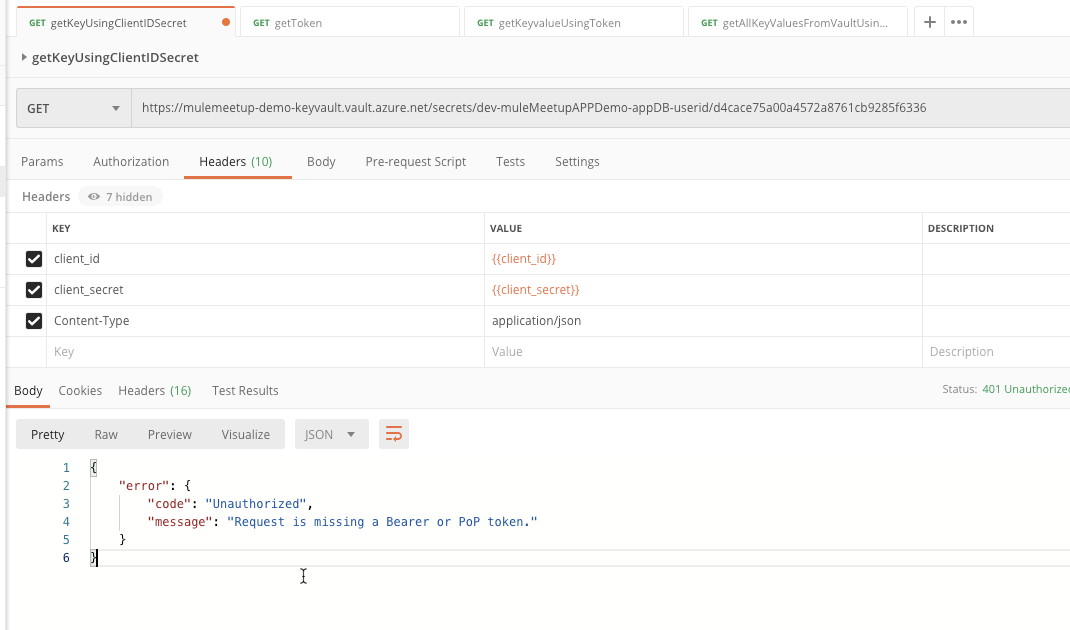
[*https://mulemeetup-demo-keyvault.vault.azure.net/secrets/dev-muleMeetupAPPDemo-appDB-userid/d4cace75a00a4572a8761cb9285f6336*](https://mulemeetup-demo-keyvault.vault.azure.net/secrets/dev-muleMeetupAPPDemo-appDB-userid/d4cace75a00a4572a8761cb9285f6336)

*If you want to always retrieve the latest version of the secret Value, use this instead*

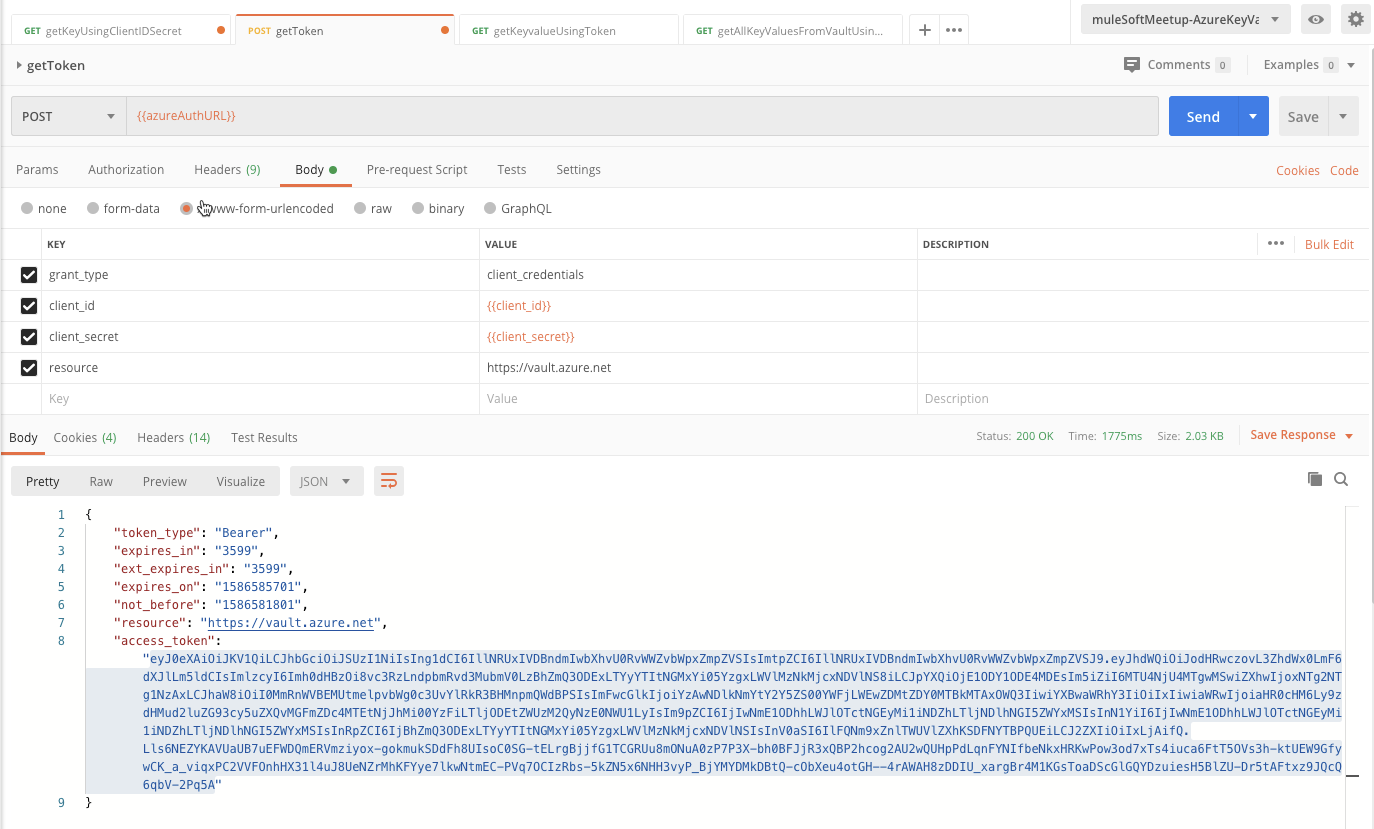
[*https://mulemeetup-demo-keyvault.vault.azure.net/secrets/dev-muleMeetupAPPDemo-appDB-userid/?api-version=2016-10-01*](https://mulemeetup-demo-keyvault.vault.azure.net/secrets/dev-muleMeetupAPPDemo-appDB-userid/?api-version=2016-10-01)



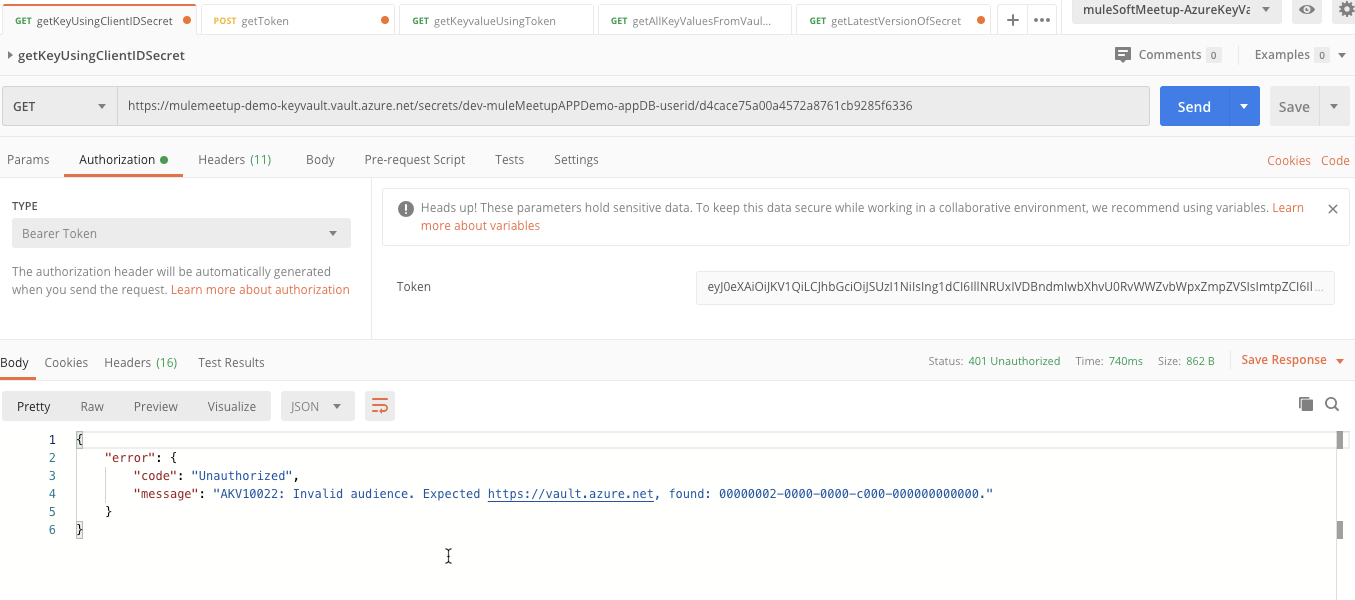
#### Step 3> Hit Azure Vault – With No Token



#### Step 4> Retrieval of Token



*Note: Below will be the error when the token is created without the Vault as the Resource Type*



**Now the final step would be to copy the access\_token and hit Azure Key Vault REST API successfully.**