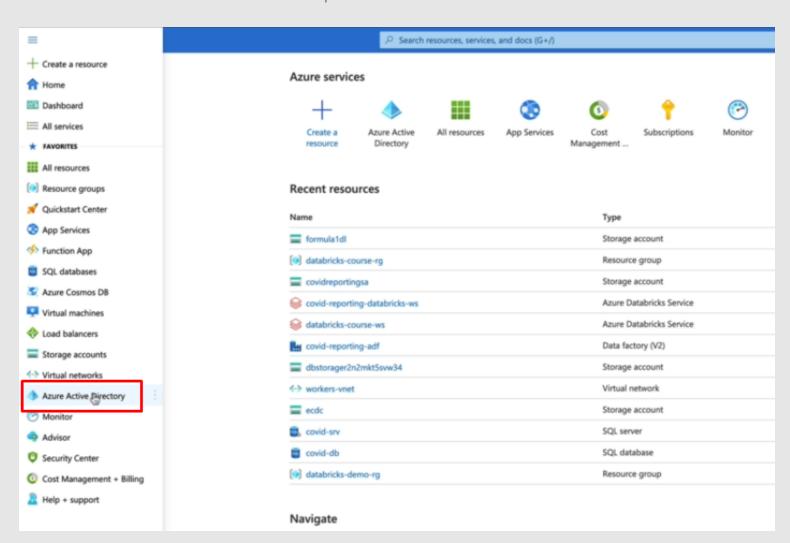
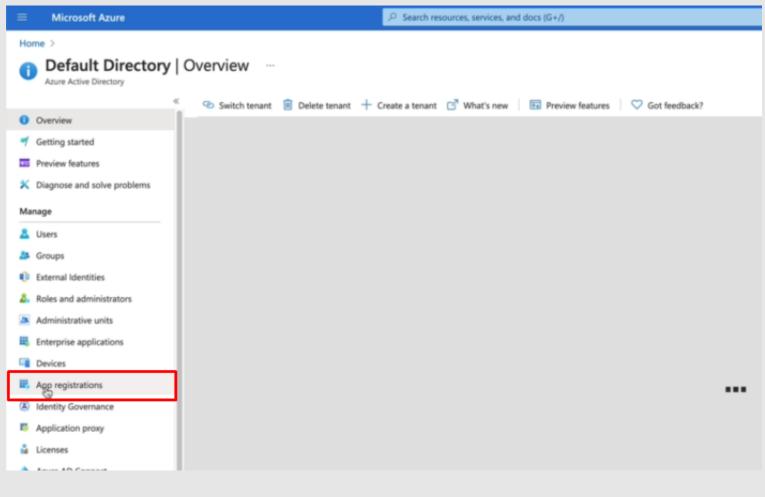
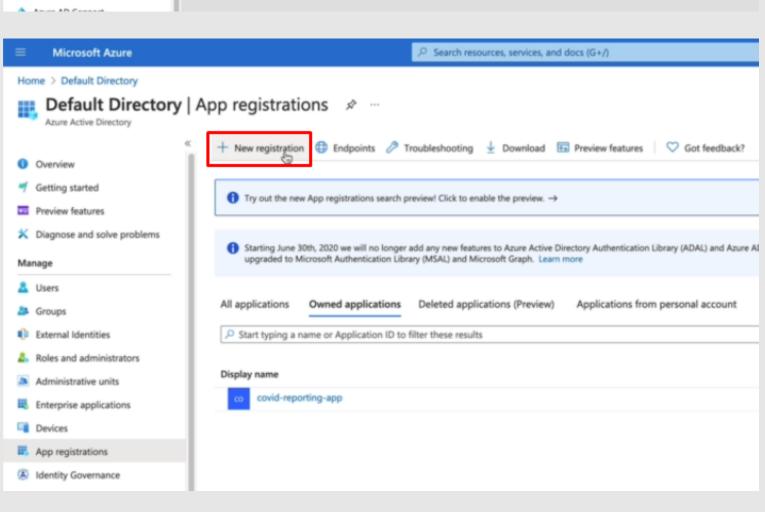
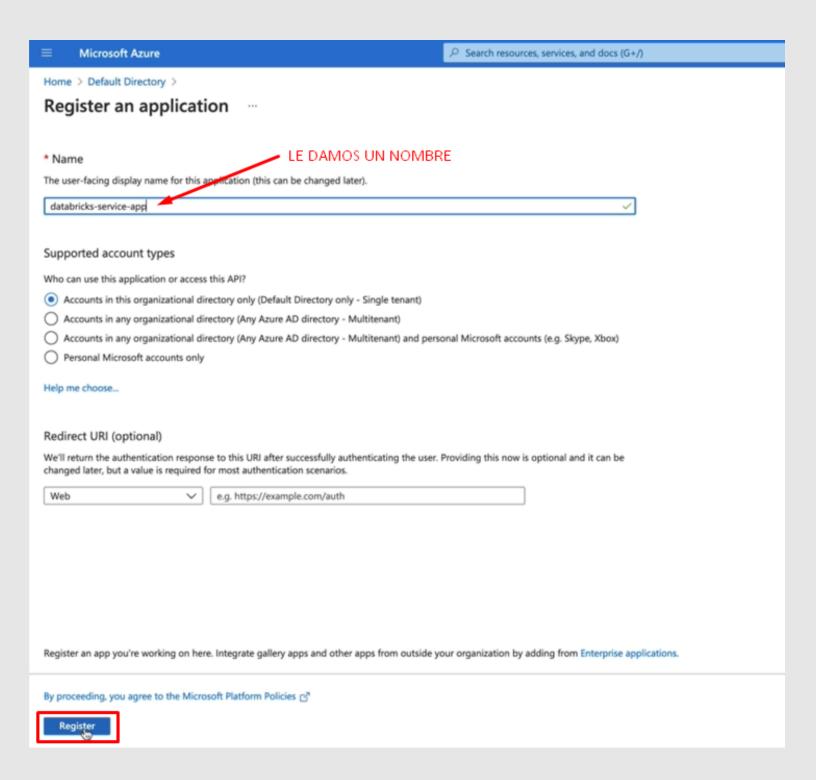
Azure Databricks Integracion con ADLS Usar Active Directory - Utilizar Service Principal / Databricks Scoped Secret

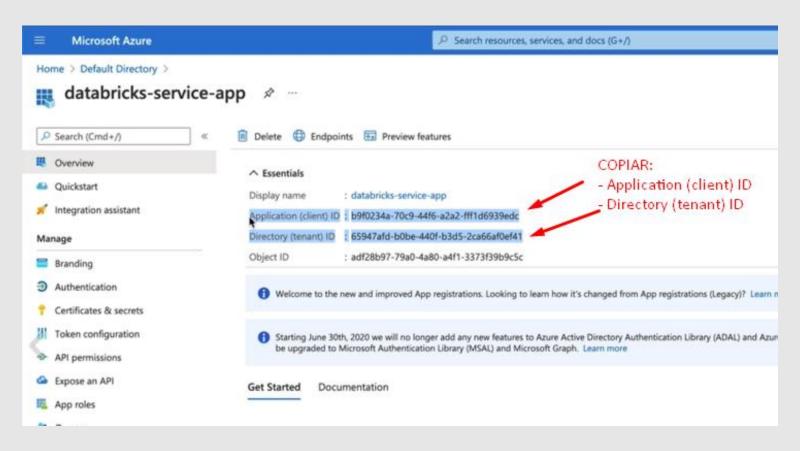
Creando un Azure Service Principal

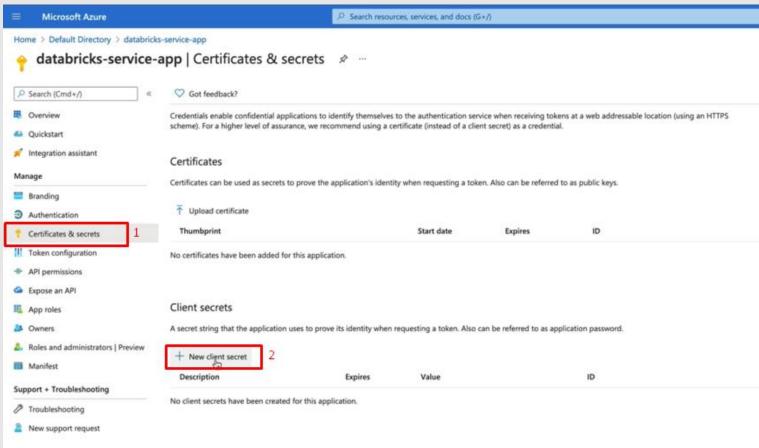


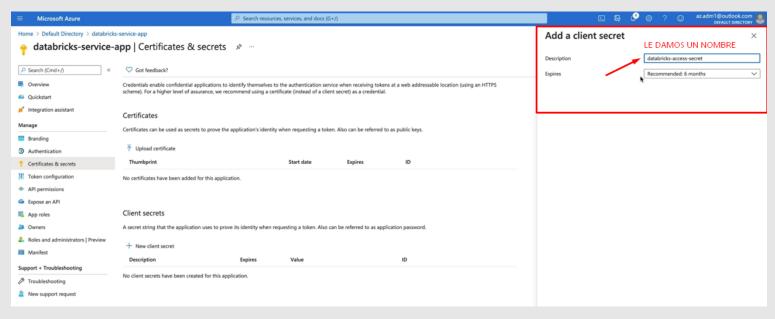


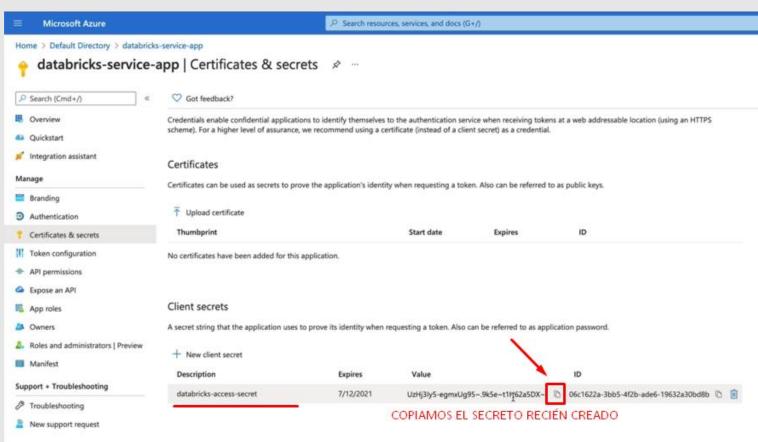


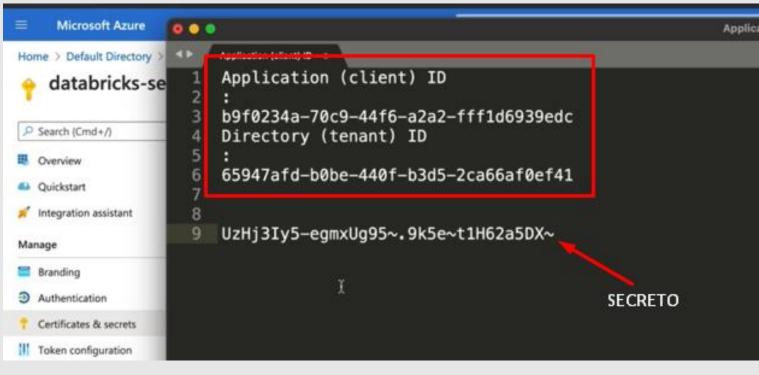


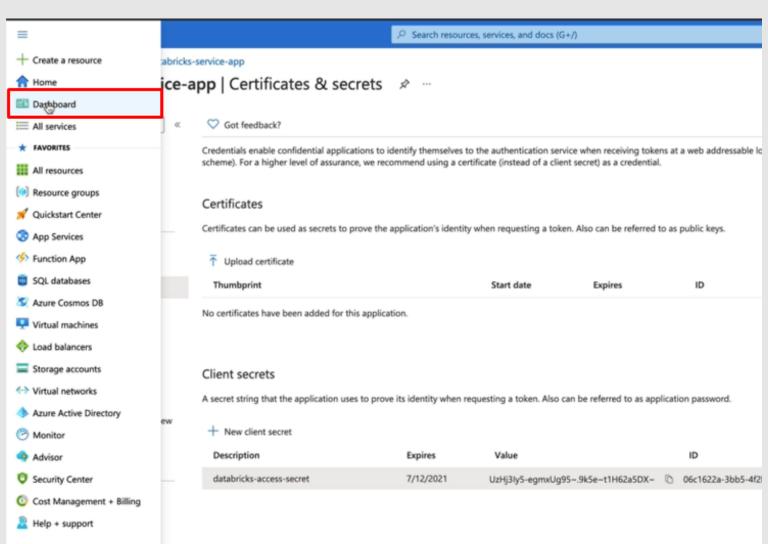


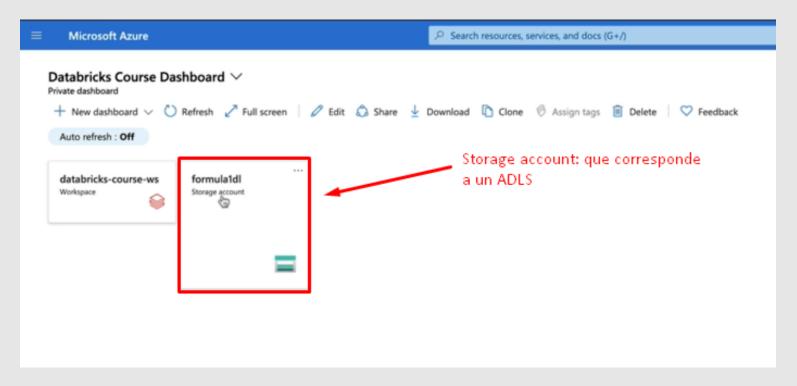


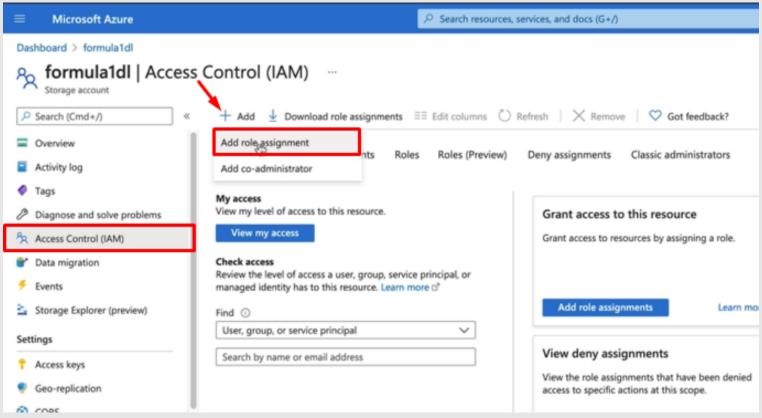


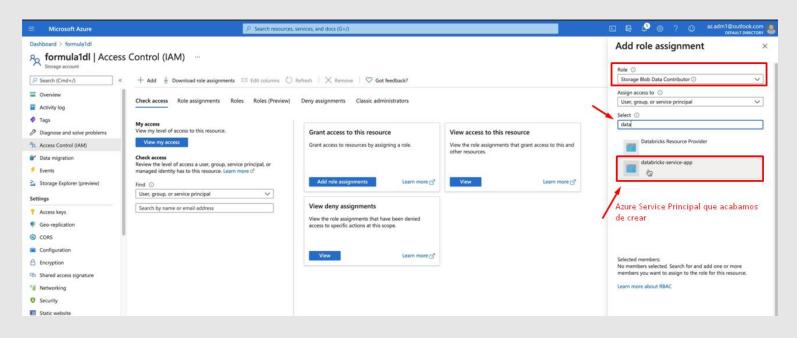


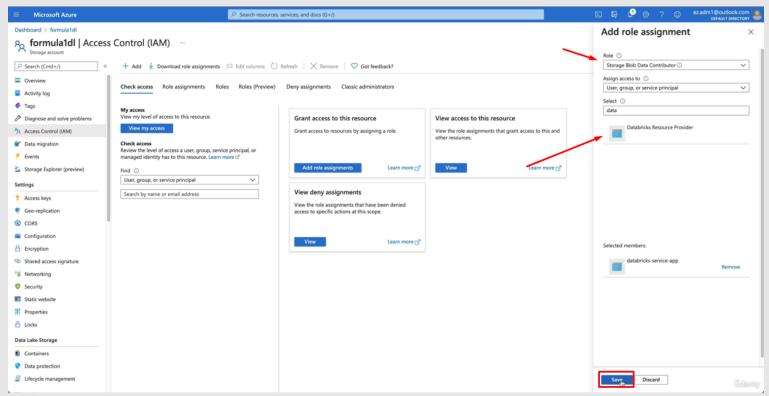






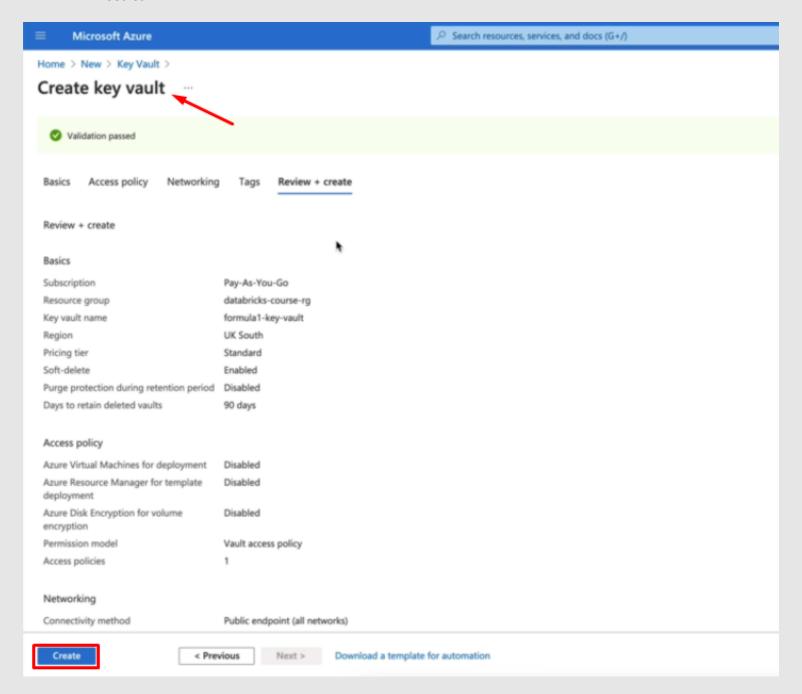




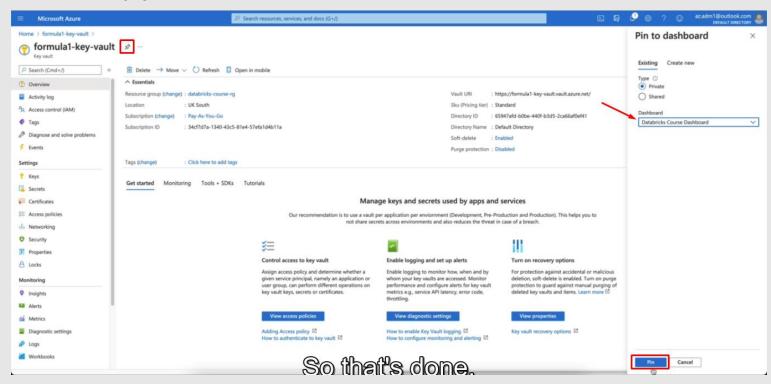


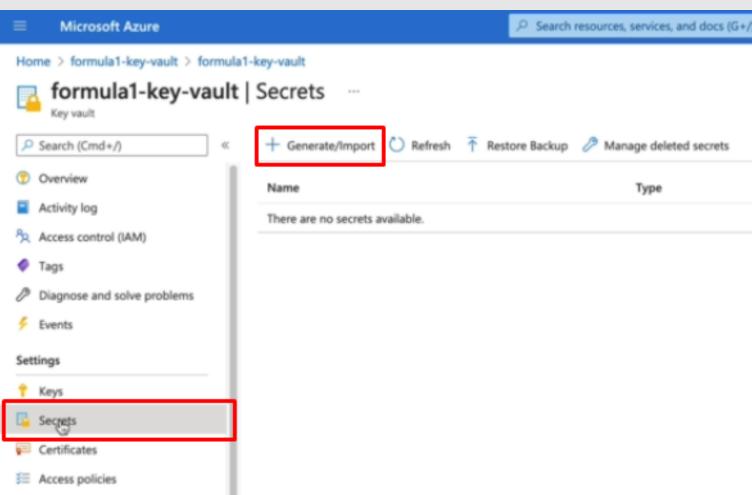
Mounting Azure Data Lake Storage Gen2

Antes que todo, vamos a utilizar Azure Key Vault para almacenar el Client ID, Tenant ID y el Client Secret.

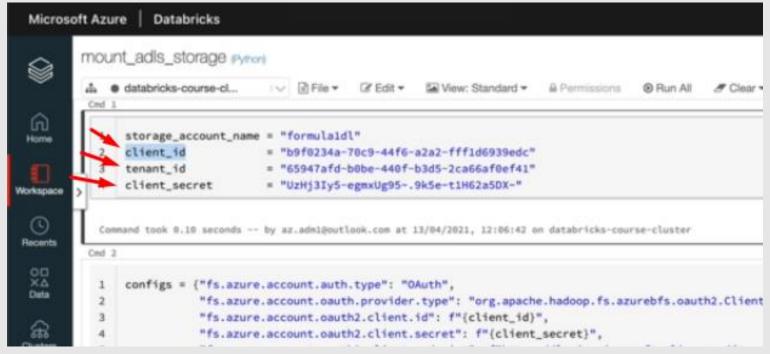


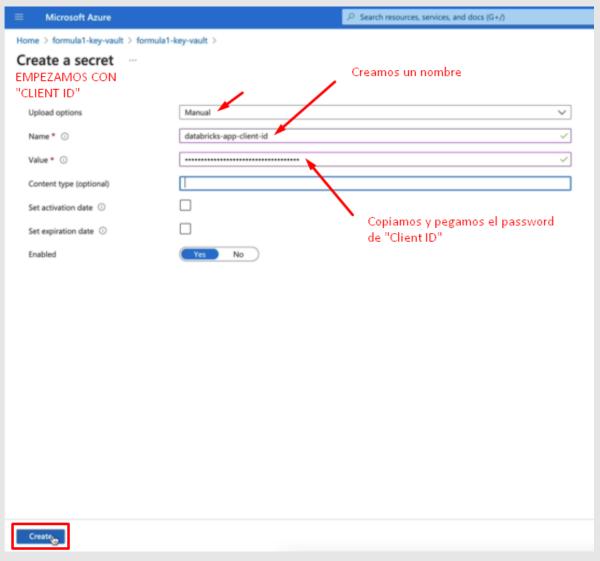
Así agregamos el servicio al dashboard

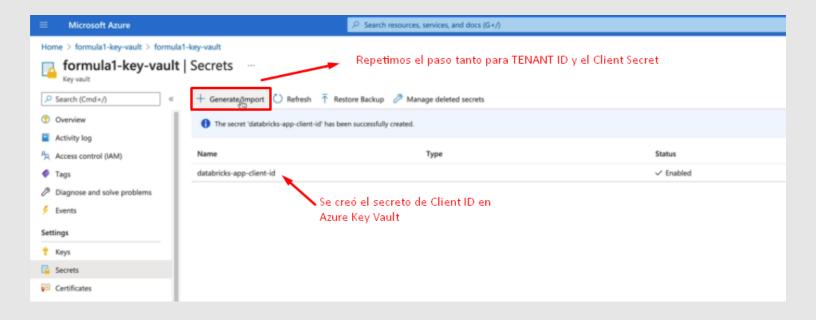




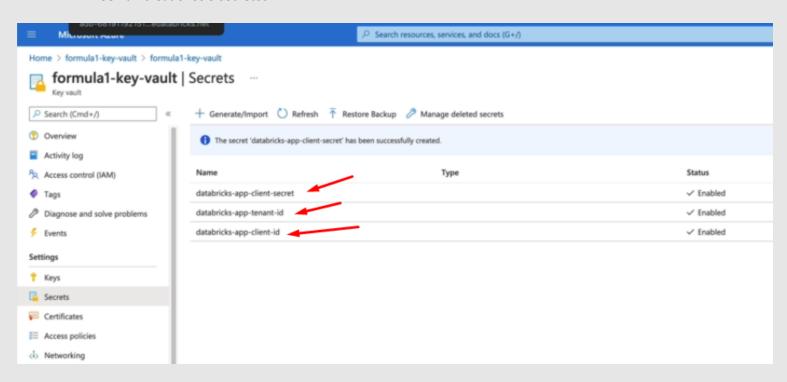
Tenemos que generar 3 secretos en Azure Key Vault



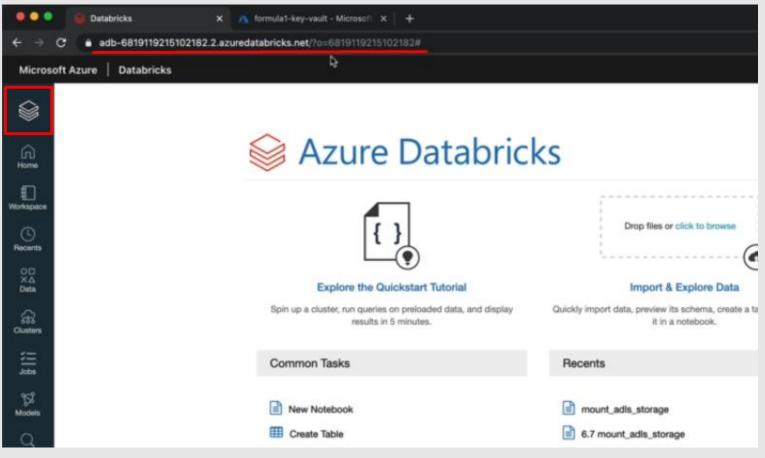


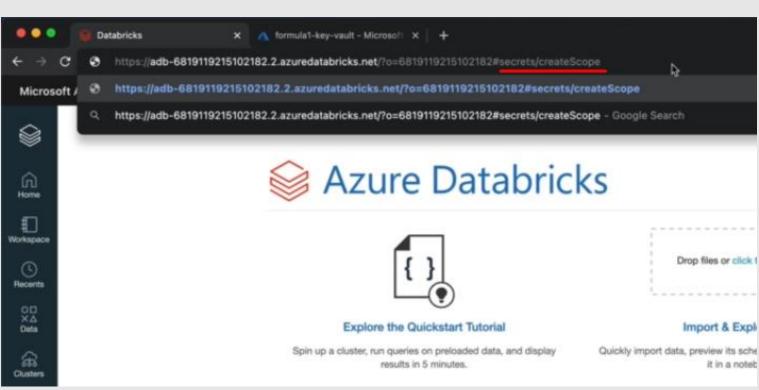


Se han creado los 3 secretos



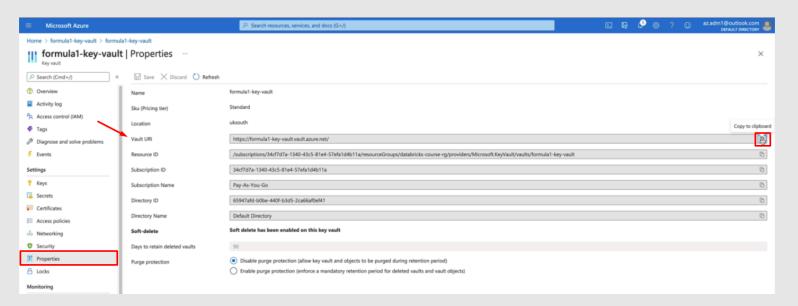
Luego, damos clic en el símbolo de databricks y en la ruta web en el navegador agregaremos #secrets/createScope. Vamos a utilizar Databricks Scoped Secret



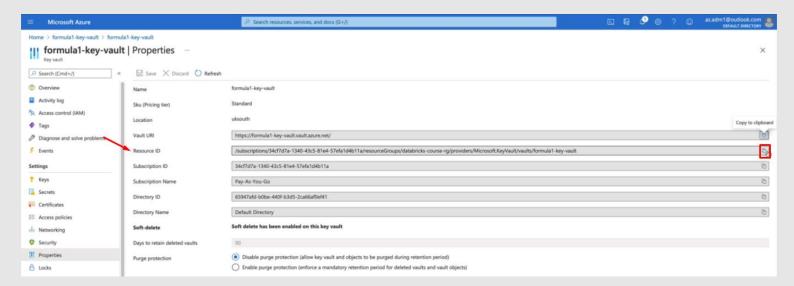


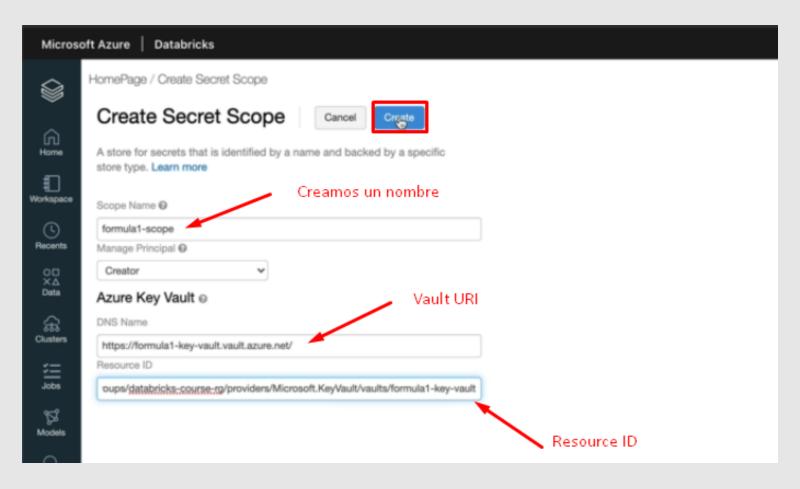
Regresamos al Azure Key Vault

Vault URI

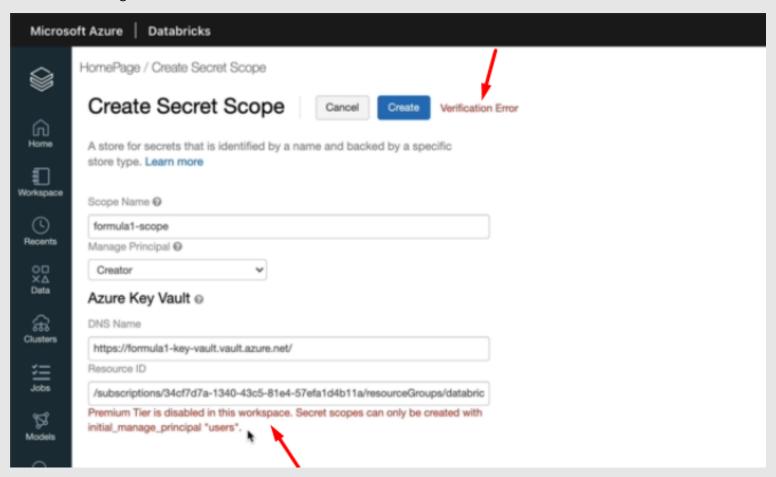


Resource ID

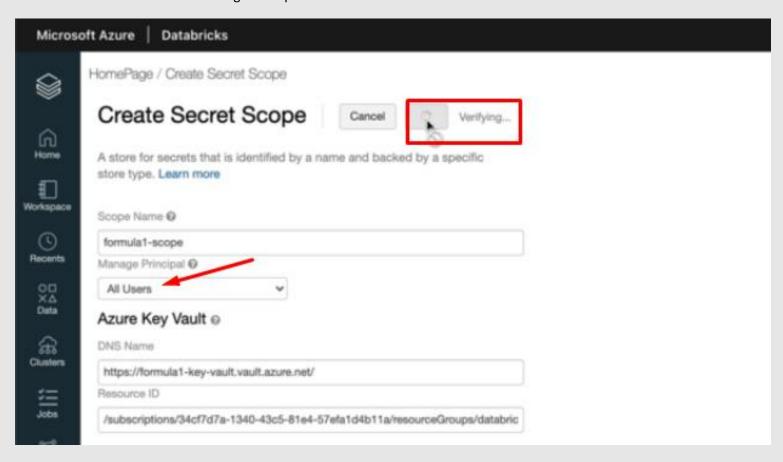


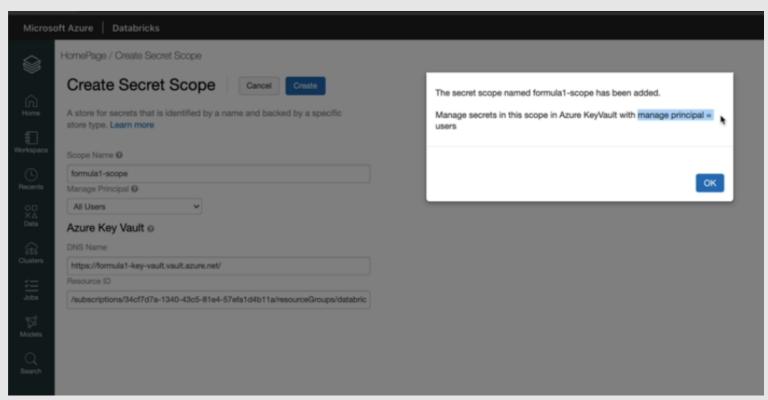


Nos generará un error



Modificamos el "Manage Principal" a "All Users"

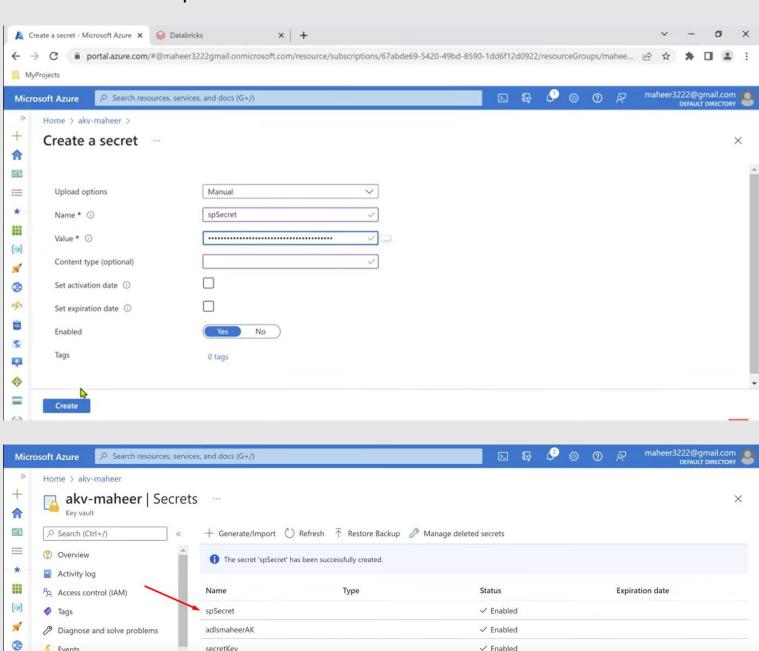




```
Cmd 1
     storage_account_name = "formula1dl"
     client_id
                          = dbutils.secrets.get(scope="formula1-scope", key="databricks-app-client-id")
     tenant_id
                          = dbutils.secrets.get(scope="formula1-scope", key="databricks-app-tenant-id")
     client_secret
                          = dbutils.secrets.get(scope="formulal-scope", key="databricks-app-client-secret")
Cmd 2
     configs = {"fs.azure.account.auth.type": "OAuth",
                "fs.azure.account.oauth.provider.type": "org.apache.hadoop.fs.azurebfs.oauth2.ClientCredsTokenProvider",
                "fs.azure.account.oauth2.client.id": f"{client_id}",
                "fs.azure.account.oauth2.client.secret": f"{client_secret}",
                "fs.azure.account.oauth2.client.endpoint": f"https://login.microsoftonline.com/{tenant_id}/oauth2/token"}
Cmd 3
     def mount_adls(container_name):
       dbutils.fs.mount(
         source = f"abfss://{container_name}@{storage_account_name}.dfs.core.windows.net/",
         mount_point = f"/mnt/{storage_account_name}/{container_name}",
         extra_configs = configs)
Cmd 4
     mount_adls("raw")
Cmd 5
```



Continuando con imágenes desde otro video, ahora debemos crear un secreto en Azure Key Vault con la clave que obtuvimos al crear nuestro Service Principal. En este ejemplo, no se utilizó **Databricks Scoped Secret**



✓ Enabled

secretKey

4

) ğ

3

Settings

↑ Keys

Secrets Certificates

Access ADLS Gen2 with Service Principle

spark.conf.set("fs.azure.account.auth.type.<storage-account>.dfs.core.windows.net", "OAuth")
spark.conf.set("fs.azure.account.oauth.provider.type.<storage-account>.dfs.core.windows.net",
"org.apache.hadoop.fs.azurebfs.oauth2.ClientCredsTokenProvider")
spark.conf.set("fs.azure.account.oauth2.client.id.<storage-account>.dfs.core.windows.net",
"<application-id>")
spark.conf.set("fs.azure.account.oauth2.client.secret.<storage-account>.dfs.core.windows.net",
service_credential)
spark.conf.set("fs.azure.account.oauth2.client.secret.<storage-account>.dfs.core.windows.net",
service_credential)
spark.conf.set("fs.azure.account.oauth2.client.endpoint.<storage-account>.dfs.core.windows.net",
"https://login.microsoftonline.com/<directory-id>/oauth2/token")

Cuenta de almacenamiento: adIsmaheer

Application id: Corresponde el ID del Service Principal

Service credential: scope --> testScope <-- Nombre de nuestro Service Principal

key: spSecret <-- Nombre de nuestro secreto en Azure Key Vault

Directory id: Corresponde al Directorio (tenant) ID --> Abajo deje una imagen de donde se

obtiene

