

Databricks Mount with DataLake Storage

1. Create Databricks (Create Cluster), ADLS Gen2 (Create container and upload files), KeyValut
2. **Goto Microsoft Entra ID**
 - a. App Registration - New Registration - Name (demo-app2-reg)
 - b. Note Client ID, Tenant ID
 - c. Goto (demo-app2-reg) app - Certificates & secrets - New client secret - Description (demo app secret) - Add - Copy secret (Value) in notepad
3. Here we got Client ID, Tenant ID, Client Secret
4. **Goto ADLS Gen2** - IAM - Add New Role Assignment - Search for (Storage Blob Data Contributor) - Next - select member - select
5. **Goto Key Valut** -
 - a. Generate/Import - Add 1). Client ID, 2). Tenant ID, 3). Client Secret
 - b. Properties - Vault URI, Resource ID (Copy or need it later for Databricks scope creation).
6. **Goto Databricks**
 - a. Home page - in URL like type (#secrets/createScope) at the end.
 - i. Name of the scope (new-app-scope) -
 - ii. DNS name (Vault URI from KeyVault Properties)
 - iii. Resource ID (Resource ID from KeyVault Properties)
 - iv. Create new notebook
 1. Goto : <https://learn.microsoft.com/en-us/azure/databricks/dbfs/mounts>
 2. Copy python spark.conf mount snippet and paste in notebook or use slide19 snippet
 3. Replace client_id,client_secret,tenant_id, container, storage-account and run



Default Directory | App registrations



- Roles and administrators
- Administrative units
- Delegated admin partners
- Enterprise applications
- Devices
- App registrations**
- Identity Governance
- Application proxy
- Custom security attributes
- Licenses
- Cross-tenant synchronization

✕ << + New registration 🌐 Endpoints ✕ Troubleshoot ↻ Refresh ⬇ Download 📄 Preview features | 👤 Got

i Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Authentication Library (ADAL) and Azure updates but we will no longer provide feature updates. Applications will need to be upgraded to Microsoft Authentication Library (MSAL).

All applications Owned applications Deleted applications Applications from personal account

🔍 Start typing a display name or application (client) ID to filter these r...

+ 🏷 Add filters

This account isn't listed as an owner of any application

[View all applications in the directory](#)

[View all applications from personal account](#)

Register an application ...

* Name

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

demo-app2-regi



Supported account types

Who can use this application or access this API?

- ☒ Accounts in this organizational directory only (Default Directory only - Single tenant)
- ☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant)
- ☐ Accounts in any organizational directory (Any Microsoft Entra ID tenant - Multitenant) and personal Microsoft accounts (e.g. Skype, Xbox)
- ☐ Personal Microsoft accounts only

[Help me choose...](#)

Redirect URI (optional)

By proceeding, you agree to the [Microsoft Platform Policies](#)

Register



demo-app2-regi



Overview

Quickstart

Integration assistant

Diagnose and solve problems

Manage

Branding & properties

Authentication

Certificates & secrets

Token configuration

API permissions

Expose an API

App roles

Owners

Roles and administrators

Manifest



Delete



Endpoints



Preview features



Got a second? We would love your feedback on Microsoft identity platform (previously Azure AD)

^ Essentials

Display name : [demo-app2-regi](#)
Application (client) ID : 778c24b5-02bf-4d48-9b1c-2a7ad38cfb21
Object ID : f058372a-f623-42ca-9b29-8f52afdaef0b
Directory (tenant) ID : 37d6e0c7-977e-4f82-810c-61f1055ef41c
Supported account types : [My organization only](#)



Welcome to the new and improved App registrations. Looking to learn how it's changed from



Starting June 30th, 2020 we will no longer add any new features to Azure Active Directory Au security updates but we will no longer provide feature updates. Applications will need to be u

Get Started

Documentation

demo-app2-regi | Certificates & secrets



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Roles and administrators

 Got feedback?

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

 Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0)

Client secrets (0)

Federated credentials (0)

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

 New client secret

Description	Expires	Value ⓘ	Secret ID
-------------	---------	---------	-----------

No client secrets have been created for this application.



demo-app2-regi | Certificates & secrets

Search

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 - Branding & properties
 - Authentication
 - Certificates & secrets**
 - Token configuration
 - API permissions
 - Expose an API
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Got feedback?

Got a second to give us some feedback? →

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

Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) Client secrets (0) Federated credentials (0)

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

+ New client secret

Description

Expires

Value ⓘ

No client secrets have been created for this application.

Add a client secret

Description

demo app2 secret

Expires

Recommended: 180 days (6 months)

Add

Cancel

demo-app2-regi | Certificates & secrets

[Got feedback?](#)[Overview](#)[Quickstart](#)[Integration assistant](#)[Diagnose and solve problems](#)[Manage](#)[Branding & properties](#)[Authentication](#)[Certificates & secrets](#)[Token configuration](#)[API permissions](#)[Expose an API](#)[App roles](#)[Owners](#)[Roles and administrators](#)[Manifest](#)

Got a second to give us some feedback? →

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

Application registration certificates, secrets and federated credentials can be found in the tabs below.

Certificates (0) Client secrets (1) Federated credentials (0)

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

+ New client secret

Description	Expires	Value ⓘ	Copy	Copied	Reset ID
demo app2 secret	6/9/2025	4W-8Q~O_6eody_fN6AkVNmUFi3JAos...			3f1da843-8112-418c-b915-e5d11c...

[Home](#) > [gpottabadls](#)

gpottabadls | Access Control (IAM)

Storage account



Search



Add



Download role assignments



Edit columns



Refresh



Overview



Activity log



Tags



Diagnose and solve problems



Access Control (IAM)



Data migration



Events



Storage browser



Partner solutions



Data storage

Containers

File shares

Queues

Tables



Security + networking

Add role assignment

Check access

Role assignments

Roles

Deny assignments

Classic ad

My access

View my level of access to this resource.

[View my access](#)

Check access

Review the level of access a user, group, service principal, or managed identity has to th

[Check access](#)

Grant access to this resource

Grant access to resources by assigning a role.

[Learn more](#)[Add role assignment](#)

View access to this resource

View the role assignments th to this and other resources.

[Learn more](#)[View](#)

Add role assignment ...

Role Members Conditions Review + assign

A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. [Learn more](#)

Job function roles Privileged administrator roles

Grant access to Azure resources based on job function, such as the ability to create virtual machines.

storage blob

Type : All

Category : All

Name ↑↓

Description ↑↓

Defender CSPM Storage Data Scanner	Grants access to read blobs and files. This role is used by the data scanner of Dfender CSPM.
Defender for Storage Data Scanner	Grants access to read blobs and update index tags. This role is used by the data scanner of De
Storage Blob Data Contributor	Allows for read, write and delete access to Azure Storage blob containers and data
Storage Blob Data Owner	Allows for full access to Azure Storage blob containers and data, including assigning POSIX acc
Storage Blob Data Reader	Allows for read access to Azure Storage blob containers and data
Storage Blob Delegator	Allows for generation of a user delegation key which can be used to sign SAS tokens

Add role assignment

Role **Members** Conditions Review + assign

Selected role Storage Blob Data Contributor

Assign access to ☒ User, group, or service principal
☐ Managed identity

Members + [Select members](#)

Name	Object ID	Type
------	-----------	------

No members selected

Description Optional

[Review + assign](#)

[Previous](#)

[Next](#)

Select members



demo-app2-regi
Application

Selected members:

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

[Learn more about RBAC](#)

[Select](#)

[Close](#)



[+ Add](#)
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[Check access](#)
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[Classic administrators](#)

Number of role assignments for this subscription ⓘ

3 4000

Privileged ⓘ

1

[View assignments](#)

[All](#)
[Job function \(1\)](#)
[Privileged \(1\)](#)

Type : All

Role : All

Scope : All scopes

Group by

2 items (1 Users, 1 Service Principals)

Name	Type	Role
Owner (1)		
<input type="checkbox"/> gangadhar pott gangadhar86050_outlook.com#EXT...	User	Owner ⓘ
Storage Blob Data Contributor (1)		
<input type="checkbox"/> demo-app2-regi	App	Storage Blob Data Contributor ⓘ



gpottab-kv4 | Secrets



Key vault



Generate/Import



Refresh



Restore Backup



View sample code



Manage deleted secrets



Overview



Activity log



Access control (IAM)



Tags



Diagnose and solve problems



Access policies



Events



Objects



Keys



Secrets



Certificates



Settings



Monitoring



Automation



Help

Name	Type
There are no secrets available.	



Create a secret ...

Upload options

Manual

Name * ⓘ

client-id

Secret value * ⓘ

.....

Content type (optional)

Set activation date ⓘ

☐

Set expiration date ⓘ

☐

Enabled

Yes

No

Tags

0 tags

Create

Cancel



Create a secret

Upload options

Manual

Name * ⓘ

tenant-id

Secret value * ⓘ

.....

Content type (optional)

Set activation date ⓘ

☐

Set expiration date ⓘ

☐

Enabled

Yes

No

Tags

0 tags

Create

Cancel



Create a secret ...

Upload options

Manual

Name * ⓘ

client-secret

Secret value * ⓘ

.....

Content type (optional)

Set activation date ⓘ

☐

Set expiration date ⓘ

☐

Enabled

Yes

No

Tags

0 tags



https://adb-4492437688910418.18.azuredatabricks.net/?o=4492437688910418#secrets/createScope



Microsoft Azure



databricks



New



Workspace



Recents



Catalog



Workflows



Compute

SQL



SQL Editor



Queries



Dashboards



Genie



Alerts



Query History

Welcome to Databricks



Search data, notebooks, recents, and more...



Set up your workspace

Follow this step-by-step guide that walks you through setting up the workspace f

Get started



Recents



Favorites



Popular



Mosaic AI



What's new

Start your journey

Try the "New" menu, where you can upload or connect to
then explore it in a notebook or dashboard

+ New

📁 Workspace

🕒 Recents

📊 Catalog

🔄 Workflows

☁ Compute

SQL

📄 SQL Editor

📄 Queries

📊 Dashboards

🔧 Genie

🔔 Alerts

🕒 Query History

📊 SQL Warehouses

Data Engineering

HomePage / Create Secret Scope

Create Secret Scope

Cancel

Create

A store for secrets that is identified by a name and backed by a specific store type. [Learn more](#)

Scope Name ?

Manage Principal ?

Creator



Azure Key Vault ?

DNS Name

https://xxx.vault.azure.net/

Resource ID

/subscriptions/xxxxxx/...



+ New

Workspace

Recents

Catalog

Workflows

Compute

SQL

SQL Editor

Queries

Dashboards

Genie

Alerts

Query History

SQL Warehouses

Data Engineering

HomePage / Create Secret Scope

Create Secret Scope

Cancel

Create

A store for secrets that is identified by a name and backed by a specific store type. [Learn more](#)

Scope Name ?

new-app-scope

Manage Principal ?

Creator

Azure Key Vault ?

DNS Name

https://gpottab-kv4.vault.azure.net/

Resource ID

j0551/resourceGroups/gpottab-rg/providers/Microsoft.KeyVault/vaults/gpottab-kv4

```
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" : "<application-id>" ,
           "fs.azure.account.oauth2.client.secret" :
dbutils.secrets.get(scope="<scope-name>" , key="<service-credential-key-name>" ) ,
           "fs.azure.account.oauth2.client.endpoint" :
           "https://login.microsoftonline.com/<directory-id>/oauth2/token" }

# Optionally, you can add <directory-name> to the source URI of your mount point.
dbutils.fs.mount(
    source =
    "abfss://<container-name>@<storage-account-name>.dfs.core.windows.net/" ,
    mount_point = "/mnt/<mount-name>" ,
    extra_configs = configs)
```



3 minutes ago (3s)

1

```
client_id = dbutils.secrets.get(scope = 'new-app-scope', key = 'client-id')
client_secret = dbutils.secrets.get(scope = 'new-app-scope', key = 'client1-secret')
tenant_id = dbutils.secrets.get(scope = 'new-app-scope', key = 'tenant1-id')
```




3 minutes ago (<1s)

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": client_id,
           "fs.azure.account.oauth2.client.secret": client_secret,
           "fs.azure.account.oauth2.client.endpoint": f"https://login.microsoftonline.com/{tenant_id}/oauth2/token"}
```


Below files can be mount to the databricks.

[Home](#) > [gpottabadis](#) | Containers >

 **raw**
Container

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Upload Add Directory Refresh Rename Delete Change tier Acquire lease Break lease

Authentication method: Access key ([Switch to Microsoft Entra user account](#))
Location: raw

	Name	Modified	Access tier
<input type="checkbox"/>	dim_date.csv	12/11/2024, 3:51:59 PM	Cold (Inferred)
<input type="checkbox"/>	testing.csv	12/11/2024, 3:51:59 PM	Cold (Inferred)

▶ ✓ 1 minute ago (12s)

3

```
dbutils.fs.mount(  
  source = "abfss://raw@gpottabadls.dfs.core.windows.net/",  
  mount_point = "/mnt/new_app/raw",  
  extra_configs = configs)
```

True

▶ ✓ Just now (1s)

4

```
display(dbutils.fs.ls('dbfs:/mnt/new_app/raw'))
```

▶ (2) Spark Jobs

Table ▼ +



	A ^B _C path	A ^B _C name	1 ² ₃ size	1 ² ₃ modificationTime
1	dbfs:/mnt/new_app/raw/dim_date.c...	dim_date.csv	75435	1733912519000
2	dbfs:/mnt/new_app/raw/testing.csv	testing.csv	85887	1733912519000