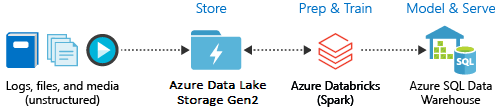
**Extract, transform, and load data by using Azure Databricks**

Perform an ETL (extract, transform, and load data) operation by using Azure Databricks



**Covers the following tasks:**

* Create an Azure Databricks service.
* Create a Spark cluster in Azure Databricks.
* Create a file system in the Data Lake Storage Gen2 account.
* Upload sample data to the Azure Data Lake Storage Gen2 account.
* Create a service principal.
* Extract data from the Azure Data Lake Storage Gen2 account.
* Transform data in Azure Databricks.
* Load data into Azure Synapse.

**Gather the information that you need**

* Database name, database server name, user name, and password of your Azure Synapse

sqlpoolapr21

synpsesqlserver.database.windows.net

* Access key of your blob storage account

co/8H8oTMI5ePIDUM9oZihnmfDOWFRH8dqXDJf0sFWSvTnWwIJ7wHkkfqbGXlp0JPB/ulxNvl2ThgsKRyopX5g==

* Name of your Data Lake Storage Gen2 storage account.

adlsdatabrickapr21

* App Tenant ID

e94450a8-fc9e-46db-bb29-3b9bc65855a2

* App ID

6f417e77-9f0d-489f-bf78-a0e9a1e16b38

* App Password

jYJUyuXM.Xrj14odHeaw2bfbP.IKv05kIW

**Steps**

1. Created Dedicated SQL Pool - (sqlpoolapr21)
2. Get the fully qualified server name
3. Connect to the server using SSMS
4. Create a master key for the Azure Synapse. Refer
   1. <https://docs.microsoft.com/en-us/sql/relational-databases/security/encryption/create-a-database-master-key>
5. Create an Azure Blob storage account, and a container within it

sadatabrickapr21

1. Also, retrieve the access key to access the storage account.

co/8H8oTMI5ePIDUM9oZihnmfDOWFRH8dqXDJf0sFWSvTnWwIJ7wHkkfqbGXlp0JPB/ulxNvl2ThgsKRyopX5g==

1. Create an Azure Data Lake Storage Gen2 storage account
   1. adlsdatabrickapr21
2. Create Service Principal
   1. az ad sp create-for-rbac -n atinspdatabricks --skip-assignment
3. Assign **Storage Blob Data Contributor** role to the data lake in RBAC to Service Principal named - atinspdatabricks
4. Create an Azure Databricks service
5. Create a Spark cluster in Azure Databricks
6. Create Notebook
   1. Import "1-ETL.dbc"