

Azure DevOps Assignment - 5

Mitushi Vishwakarma

- Created Databricks workspace :

Subscription *

Resource group *

Workspace name *

Region *

Pricing Tier *

We selected the recommended pricing tier for your workspace. You can change the tier based on your needs.

[Review + create](#) [Next : Networking >](#)

Validation Succeeded

Basics

Workspace name	Testproject
Subscription	Free Trial
Resource group	Data_Engineering_Projects
Region	North Europe
Pricing Tier	premium
Managed Resource Group name	

Networking

Deploy Azure Databricks workspace with No Secure Cluster Connectivity (No Public IP)

Deploy Azure Databricks workspace in your own Virtual Network (VNet) No

[Create](#) [< Previous](#) [Download a template for automation](#)

Microsoft Azure | Data Warehousing Integration | Data Warehousing Integration | Data Engineering Project 1 | (33) Part 2- Environment S | Data_Engineering_Projects | Ayushi Bangalore Packing | Finish update | All Bookmarks

Home > Data_Engineering_Projects_Testproject | Overview

Deployment

Overview

Your deployment is complete

Deployment name : Data_Engineering_Projects_Testproject
Subscription : Free Trial
Resource group : Data_Engineering_Projects

Start time : 25/2/2024, 11:31:04 pm
Correlation ID : 3361b04f-4807-4dbf-b14b-af09fce592e

Deployment details

Next steps

Go to resource

Cost management

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Microsoft Azure | Test_project - Microsoft Azure | Cluster Details - Databricks | Data Warehousing Integration | Project 1 - Google Docs | Finish update | All Bookmarks

Home > Data_Engineering_Projects > Test_project

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Virtual Network Peerings

Encryption

Networking

Properties

Locks

Monitoring

Diagnostic settings

Automation

CLI / PS

Tasks (preview)

Search

Delete

Essentials

Status : Active
Resource group : Data_Engineering_Projects
Location : North Europe
Subscription : Free Trial
Subscription ID : b9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0
Tags (edit) : Add tags

Managed Resource Group : databricks-rg-Test_project-2cha55ohvowug
URL : <https://adb-7954070462943175.15.azure.databricks.net>
Pricing Tier : Premium (+ Role-based access controls). (Click to change)

JSON View

Launch Workspace

Documentation Getting Started Import Data from File Import Data from Azure Storage

- Created personal compute cluster in Azure Databricks:

The screenshot shows the Azure Databricks Cluster Details page for 'Mitshi Vishwakarma's Cluster'. The left sidebar is open to the 'Compute' section, which includes options like Workspace, Recents, Catalog, Workflows, SQL, SQL Editor, Queries, Dashboards, Alerts, Query History, SQL Warehouses, Data Engineering, Job Runs, Data Ingestion, Delta Live Tables, Machine Learning, Experiments, and Features. The main panel displays the cluster configuration. Under 'Policy', it is set to 'Personal Compute' with 'Single user access' and 'Single user' set to 'Mitshi Vishwakarma'. Under 'Performance', the Databricks Runtime Version is '14.3 LTS ML (includes Apache Spark 3.5.0, Scala 2.12)'. There are checkboxes for 'Use Photon Acceleration' and 'Node type', with 'Standard_DS3_v2' selected. A checkbox for 'Terminate after 60 minutes of inactivity' is checked. Under 'Tags', there are no custom tags listed. On the right, a 'Summary' box provides details: 1 Driver, 14 GB Memory, 4 Cores, Runtime 14.3.x-cpu-mi-scala2.12, Unity Catalog, Standard_DS3_v2, and 0.75 DBU/h.

- Created ADLS Gen 2 storage account :

The screenshot shows the 'Create a storage account' wizard in the Azure portal. The top navigation bar includes tabs for Data Warehousing Integration, Data Engineering Project, Create a storage account, and Aayushi Bangalore Packing. The left sidebar shows Home > Storage accounts. The main form is titled 'Create a storage account' and has a 'Basics' tab selected. Other tabs include Advanced, Networking, Data protection, Encryption, Tags, and Review. The 'Instance details' section requires a Storage account name ('adls1046'), Region ('(Europe) North Europe'), and Premium account type ('Block blobs'). It also includes options for Deploy to an edge zone and Performance (choosing Premium). Redundancy is set to Locally-redundant storage (LRS). At the bottom, there are 'Review' and 'Next : Advanced >' buttons, along with a 'Give feedback' link.

Microsoft Azure | Create a storage account | portal.azure.com/#create/Microsoft.StorageAccount-ARM

Health English TCS Python YouTube Amazon.in DE Project - Google Drive

Microsoft Azure | Microsoft Storage Accounts | Storage accounts | Home > Storage accounts > Create a storage account ...

Basics Advanced Networking Data protection Encryption Tags Review

Minimum TLS version: Version 1.2

Permitted scope for copy operations (preview): From any storage account

Hierarchical Namespace

Hierarchical namespace, complemented by Data Lake Storage Gen2 endpoint, enables file and directory semantics, accelerates big data analytics workloads, and enables access control lists (ACLs) [Learn more](#)

Enable hierarchical namespace

Access protocols

Blob and Data Lake Gen2 endpoints are provisioned by default [Learn more](#)

Review < Previous Next : Networking > Give feedback

Microsoft Azure | Create a storage account | portal.azure.com/#create/Microsoft.StorageAccount-ARM

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Microsoft Azure | Microsoft Storage Accounts | Storage accounts | Home > Storage accounts > Create a storage account ...

Basics Advanced Networking Data protection Encryption Tags Review

Basics

Subscription	Free Trial
Resource Group	Data_Engineering_Projects
Location	northeurope
Storage account name	adls1046
Deployment model	Resource manager
Performance	Premium
Premium account type	Block blobs
Replication	Locally-redundant storage (LRS)

Advanced

Enable hierarchical namespace	Enabled
Enable network file system v3	Disabled
Allow cross-tenant replication	Disabled

Create < Previous Next > Download a template for automation Give feedback

Microsoft Azure | Overview

Your deployment is complete

Deployment name: adls1046_1708885139448
Subscription: Free Trial
Resource group: Data_Engineering_Projects

Start time: 25/2/2024, 11:49:09 pm
Correlation ID: ba085d2e-2a5c-4853-86a0-6bf76ef09c71

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Microsoft Azure | Overview

Storage account

Overview

Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser

Data storage

Containers

Security + networking

Networking
Access keys
Shared access signature
Encryption
Microsoft Defender for Cloud

Upload Open in Explorer Delete Move Refresh Open in mobile Feedback

Properties Monitoring Capabilities (5) Recommendations (0) Tutorials Tools + SDKs

JSON View

Essentials

Resource group (move)	: Data_Engineering_Projects	Performance	: Premium
Location	: northeurope	Replication	: Locally-redundant storage (LRS)
Subscription (move)	: Free Trial	Account kind	: BlockBlobStorage
Subscription ID	: b9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0	Provisioning state	: Succeeded
Disk state	: Available	Created	: 2/25/2024, 12:14:00 AM

Tags (edit) : Add tags

Data Lake Storage

Hierarchical namespace	Enabled	Require secure transfer for REST API operations	Enabled
Blob anonymous access	Disabled	Storage account key access	Enabled
Blob soft delete	Enabled (7 days)	Minimum TLS version	Version 1.2
Container soft delete	Enabled (7 days)	Infrastructure encryption	Disabled
Versioning	Disabled		
Change feed	Disabled		
NFS v3	Disabled		

Security

Allow access from	All networks

Networking

• Created Azure Data Factory :

The screenshot shows the Azure portal's 'Create Data Factory' wizard. The 'Basics' tab is selected. The user has chosen a 'Subscription' (Free Trial) and a 'Resource group' (Data_Engineering_Projects). Other fields include 'Name' (1046), 'Region' (East US), and 'Version' (V2). Navigation buttons at the bottom are 'Previous', 'Next', and 'Review + create'.

Project details
Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.

Subscription * Free Trial
Resource group * Data_Engineering_Projects

Instance details
Name * 1046
Region * East US
Version * V2

Review + create

The screenshot shows the 'Review + create' tab of the wizard. It displays the summary of the selected parameters: Subscription (Free Trial), Resource group (Data_Engineering_Projects), Name (1046), Region (East US), and Version (V2). A 'View automation template' link is also present. Navigation buttons are 'Previous', 'Next', and 'Create'.

TERMS
By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. See the [Azure Marketplace Terms](#) for additional details.

Basics

Subscription	Free Trial
Resource group	Data_Engineering_Projects
Name	1046
Region	East US
Version	V2

Review + create

Microsoft DataFactory-20240225235357 | Overview

Your deployment is complete

Deployment name : Microsoft.DataFactory-20240225235357
Subscription : Free Trial
Resource group : Data_Engineering_Projects

Start time : 25/2/2024, 11:55:16 pm
Correlation ID : ca621b98-6083-4298-b2d7-c85660fbbeece

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Deployment succeeded

Deployment 'Microsoft.DataFactory-20240225235357' to resource group 'Data_Engineering_Projects' was successful.

Pin to dashboard Go to resource group

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1046project1 - Microsoft Azure

Cluster Details - Databricks

Data Warehousing Integration

Project 1 - Google Docs

Home > Data_Engineering_Projects >

1046project1 Data factory (V2)

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Settings

Networking

Managed identities

Properties

Locks

Getting started

Quick start

Monitoring

Alerts

Metrics

Diagnostic settings

Essentials

Resource group (move) : Data_Engineering_Projects
Status : Succeeded
Location : East US
Subscription (move) : Free Trial
Subscription ID : b9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0

Type : Data factory (V2)
Getting started : Quick start

JSON View

Azure Data Factory Studio

Launch studio

Quick Starts

Tutorials

Template Gallery

Training Modules

• Created Azure Synapse Analytics workspace :

Create Synapse workspace

Subscription *: Free Trial

Resource group *: Data_Engineering_Projects

Managed resource group: Enter managed resource group name

Workspace details

Name your workspace, select a location, and choose a primary Data Lake Storage Gen2 file system to serve as the default location for logs and job output.

Workspace name *: 1046projectsynapse

Region *: North Europe

Select Data Lake Storage Gen2 *: From subscription

Account name *: 1046adlsgen2

File system name *: users

Review + create < Previous Next: Security >

Create Synapse workspace

Security

Configure security options for your workspace.

Authentication

Choose the authentication method for access to workspace resources such as SQL pools. The authentication method can be changed later on. [Learn more](#)

Authentication method: Use both local and Microsoft Entra ID authentication

SQL Server admin login *: sqldadminuser

SQL Password: *****

Confirm password: *****

System assigned managed identity permission

Select to grant the workspace network access to the Data Lake Storage Gen2 account using the workspace system identity. [Learn more](#)

Allow network access to Data Lake Storage Gen2 account.

Review + create < Previous Next: Networking >

Validation succeeded

[Basics](#) [Security](#) [Networking](#) [Tags](#) [Review + create](#)

Product Details

Azure Synapse Analytics workspace by Microsoft Serverless SQL est. cost/TB ① **424.81 INR**

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Terms

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Basics

Subscription **Free Trial**
Resource group **Data_Engineering_Projects**

[Create](#) [< Previous](#) [Next >](#) [Download a template for automation](#)

[Microsoft](#) [1046proj...](#) [Transform](#) [Project 1](#) [Code Files](#) [Data Ware...](#) [Create a st...](#) [Azure Syn...](#) [Quickstart](#) [Pricing - A...](#) [+ Finish update](#)

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[Microsoft Azure](#) [Search resources, services, and docs \(G+\)](#)

[mitushi.vishjs@gmail.com](#) [DEFAULT DIRECTORY](#)

Microsoft.Azure.SynapseAnalytics-20240225011523 | Overview

Your deployment is complete

Deployment name : Microsoft.Azure.SynapseAnalytics-20240225011523 Start time : 25/2/2024, 1:22:00 am
Subscription : Free Trial Correlation ID : 63c8e4ab-2f28-4d23-bcd2-0ea163143701
Resource group : Data_Engineering_Projects

[Deployment details](#) [Next steps](#)

[Go to resource group](#)

[Give feedback](#) [Tell us about your experience with deployment](#)

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Azure Synapse Analytics

1046project1synapse - Synapse workspace

Essentials

Resource group (move) Data_Engineering_Projects
Status Succeeded
Location North Europe
Subscription (move) Free Trial
Subscription ID b9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0
Managed virtual network No
Managed Identity object ID 16d97cf1-ddca-47ff-b624-fd53f6370f44
Workspace web URL <https://web.azuresynapse.net/workspace=%2bsubscriptions%2fb9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0>
Tags (edit) Add tags

Networking

Show firewall settings
Primary ADLS Gen2 account URL <https://1046adlsgen2.dfs.core.windows.net>
Primary ADLS Gen2 file system users
SQL admin username sqldadminuser
SQL Microsoft Entra admin live.com@mitushivishjs@gmail.com
Dedicated SQL endpoint 1046project1synapse-sql.azuresynapse.net
Serverless SQL endpoint 1046project1synapse-ondemand.sql.azuresynapse.net
Development endpoint <https://1046project1synapse.dev.azuresynapse.net>

Analytics pools

SQL pools 1046project1synapse

Getting started

Open Synapse Studio Start building your fully-integrated analytics solution and unlock new insights. Open ↗
Read documentation Learn how to be productive quickly. Explore concepts, tutorials, and samples. Learn more ↗

Azure Synapse Analytics

1046project1synapse - Synapse workspace

Analytics pools

Name	Type	Size
Built-in	Serverless	Auto

The screenshot shows the Microsoft Azure Synapse Analytics workspace home page. The URL is https://web.azuresynapse.net/en/home?workspace=%2Fsubscriptions%2Fb9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0%2FresourceGroups%2FData_Engineering_Projects%2F. The workspace name is "1046project1synapse". The left sidebar includes links for Home, Data, Develop, Integrate, Monitor, and Manage. The main area features a large circular visualization with a bar chart overlay, and three cards: "Ingest" (Perform a one-time or scheduled data load.), "Explore and analyze" (Learn how to get insights from your data.), and "Visualize" (Build interactive reports with Power BI capabilities.). Below these are sections for "Discover more" (Knowledge center, Browse partners) and "Recent resources".

Created a dedicated SQL Pool :

The screenshot shows the Microsoft Azure Synapse Analytics management interface, specifically the "SQL pools" section. The URL is https://web.azuresynapse.net/en/management/sql/pools?workspace=%2Fsubscriptions%2Fb9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0%2FresourceGroups%2FData_Engineering_Projects%2F. The left sidebar includes links for Home, Data, Develop, Integrate, Monitor, and Manage. The main area shows a list of SQL pools, with "Built-in" listed as the only item. It is a Serverless pool, status is Online, and size is Auto.

Name	Type	Status	Size
Built-in	Serverless	Online	Auto

https://web.azure-synapse.net/en/management/sql/pools?workspace=%2Fsubscriptions%2Fb9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0%2FresourceGroups%2FData_Engine...

New dedicated SQL pool

Basics * Additional settings * Tags Review + create

Create a dedicated SQL pool with your preferred configurations. Complete the Basics tab then go to Review + Create to provision with smart defaults. [Learn more](#)

Dedicated SQL pool details

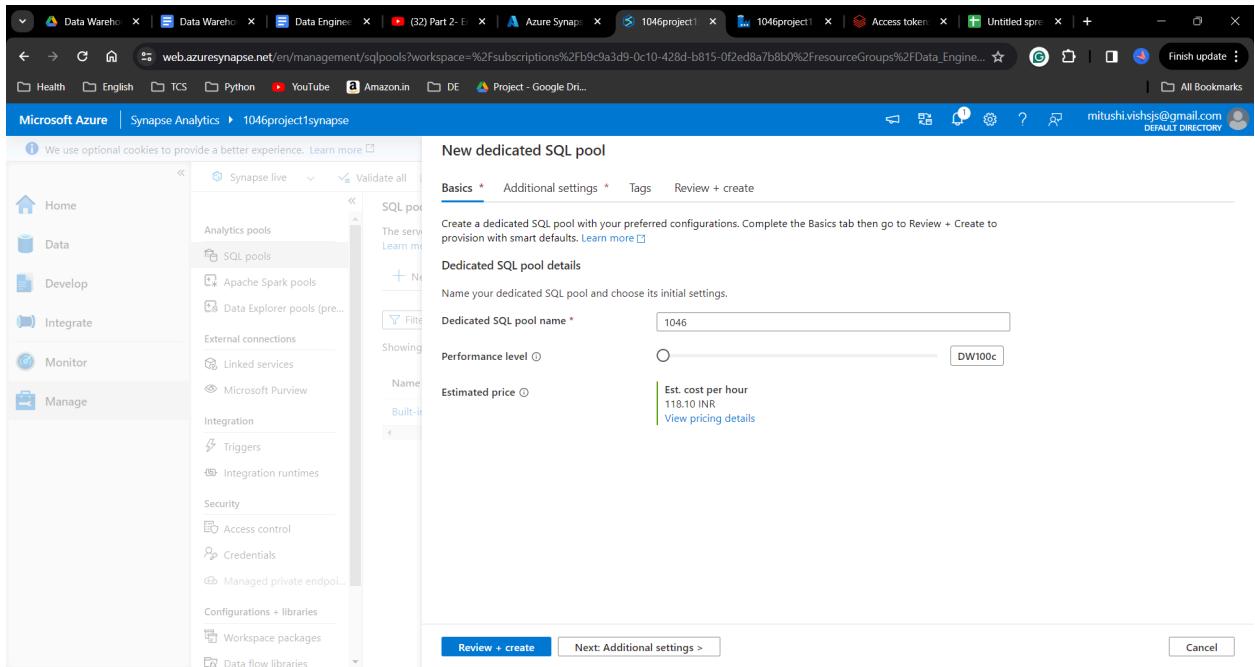
Name your dedicated SQL pool and choose its initial settings.

Dedicated SQL pool name * 1046

Performance level DW100c

Estimated price Est. cost per hour 118.10 INR [View pricing details](#)

Review + create **Next: Additional settings >** **Cancel**



https://web.azure-synapse.net/en/management/sql/pools?workspace=%2Fsubscriptions%2Fb9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0%2FresourceGroups%2FData_Engine...

New dedicated SQL pool

Basics * Additional settings * Tags Review + create

Validation succeeded.

Submitting the request to deploy Submitting a deployment request for 1046 (dedicated SQL pool) to the workspace.

Product details

Azure Synapse Analytics dedicated SQL pool by Microsoft [Terms of use](#) | [Privacy policy](#) Est. cost per hour 118.10 INR [View pricing details](#)

Terms

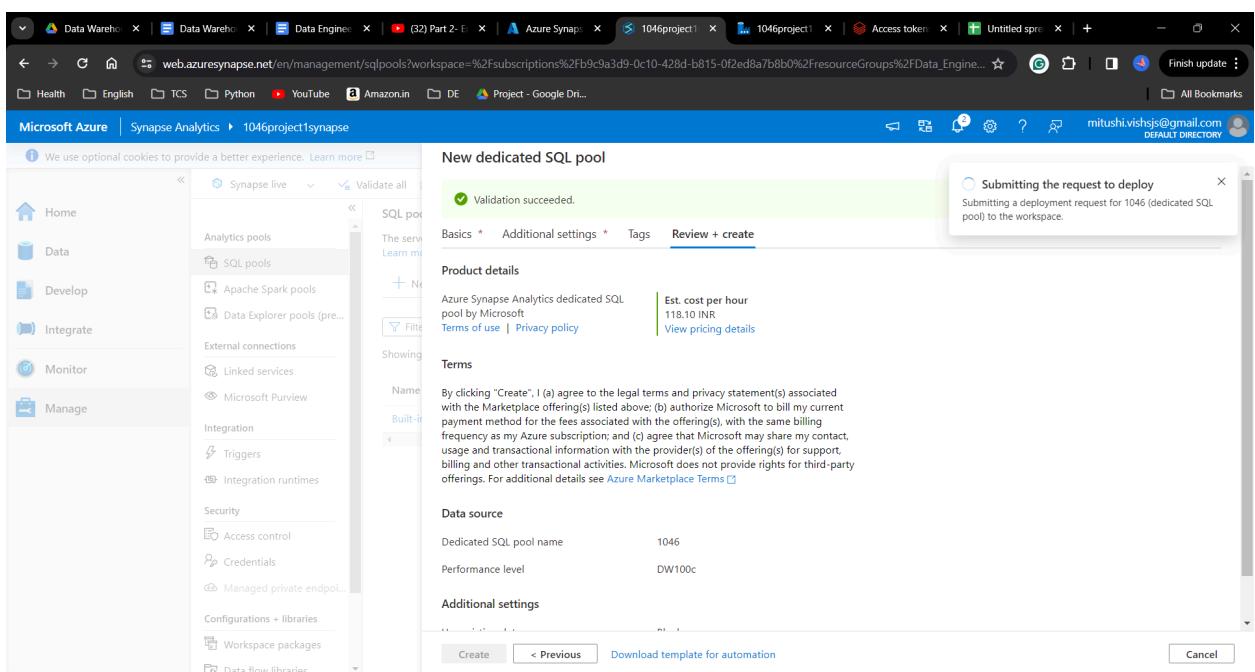
By clicking "Create", I (a) agree to the legal terms and privacy statement(s) associated with the Marketplace offering(s) listed above; (b) authorize Microsoft to bill my current payment method for the fees associated with the offering(s), with the same billing frequency as my Azure subscription; and (c) agree that Microsoft may share my contact, usage and transactional information with the provider(s) of the offering(s) for support, billing and other transactional activities. Microsoft does not provide rights for third-party offerings. For additional details see [Azure Marketplace Terms](#).

Data source

Dedicated SQL pool name 1046 Performance level DW100c

Additional settings

Create **< Previous** **Download template for automation** **Cancel**



Screenshot of Microsoft Azure Synapse Studio Overview page for deployment "SynapseStudio.SQLPool_d5d42e2404ea4c76bf180cbb64074f4c".

Deployment Status: Your deployment is complete.

Deployment Details:

- Deployment name: SynapseStudio.SQLPool_d5d42e2404ea4c76bf180cbb64074f4c
- Subscription: Free Trial
- Resource group: Data_Engineering_Projects
- Start time: 25/2/2024, 10:52:10 pm
- Correlation ID: af8c89d-937a-4929-a72b-dd1b08276bb3

Next steps:

- Go to resource

Right-hand sidebar:

- Cost management:** Get notified to stay within your budget and prevent unexpected charges on your bill. [Set up cost alerts >](#)
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Screenshot of Microsoft Azure Synapse Analytics workspace "1046project1synapse".

Left sidebar:

- Home
- Data
- Develop
- Integrate
- Monitor
- Manage

Central content area:

SQL pools:

The serverless SQL pool, Built-in, is immediately available for your workspace. Dedicated SQL pools can be configured to adapt to team or organizational requirements and constraints.

[Learn more](#)

Actions: + New, Refresh

Filter by name: Filter by name

Table:

Name	Type	Status	Size
Built-in	Serverless	Online	Auto
1046	Dedicated	Online	DW100c

• Linked Services in Azure Data Factory

The screenshot shows the Microsoft Azure portal with the URL portal.azure.com/#@mitushivishsj@gmail.onmicrosoft.com/resource/subscriptions/b9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0/resourceGroups/Data_Eng.... The page displays the '1046project1' Data Factory (V2) overview. Key details include:

- Resource group: [Data_Engineering_Projects](#)
- Status: Succeeded
- Location: East US
- Subscription: [Free Trial](#)
- Subscription ID: b9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0

The interface includes a sidebar with options like Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Networking, Managed identities, Properties, Locks), Getting started (Quick start), Monitoring (Alerts, Metrics), and Diagnostic settings. A central area features the Azure Data Factory Studio logo and a 'Launch studio' button, along with sections for Quick Starts, Tutorials, Template Gallery, and Training Modules.

Linked Azure Databricks Delta Lake :

The screenshot shows the Microsoft Azure portal with the URL adf.azure.com/en/management/datalinkedservices?factory=%2fsubscriptions%2fb9c9a3d9-0c10-428d-b815-0f2ed8a7b8b0%2fresourceGroups%2fData_En.... The page displays the '1046project1' Data Factory 'Linked services' configuration. The left sidebar shows options like Home, Author, Monitor, Manage, and Learning Center. The main area shows the 'Linked services' section with a 'New' button and a search bar for 'databricks'. A preview card for 'Azure Databricks Delta Lake' is shown, along with filter buttons for All, Azure, Database, File, Generic protocol, NoSQL, and Services and apps. At the bottom are 'Continue' and 'Cancel' buttons.

The screenshot shows the Microsoft Azure Data Factory interface. On the left, a sidebar lists various settings like General, Connections, Source control, and Security. The 'Connections' section is expanded, showing 'Linked services'. A modal window titled 'New linked service' is open, specifically for connecting to 'Azure Databricks Delta Lake'. It requires an 'Azure subscription' (selected from a dropdown) and a 'Databricks workspace' (set to 'Test_project'). Under 'Access token', there is a text input field containing a long string of characters. Below this, a dropdown menu for 'Choose from existing clusters' shows 'Mitushi Vishwakarma's Cluster'. The modal also includes sections for 'Annotations', 'Parameters', and 'Advanced'. At the bottom right of the modal are 'Create', 'Back', 'Test connection', and 'Cancel' buttons.

Access Token in Databricks : Go to User settings , click on developer option and then click on generate access token.

The screenshot shows the Databricks Settings page. The left sidebar has a 'New' button at the top, followed by categories like Workspace, Recents, Catalog, Workflows, Compute, SQL, and Data Engineering. Under Data Engineering, 'Job Runs', 'Data Ingestion', and 'Delta Live Tables' are listed. The main content area shows the 'User settings > Developer > Access tokens' path. A sub-section titled 'Access tokens' is displayed, with a note that personal access tokens can be used for secure authentication to the Databricks API instead of passwords. A 'Generate new token' button is visible. Below it, a table lists a single token entry: 'Comment' (ADF linked service), 'Creation' (2024-02-25 22:31:39 IST), and 'Expiration' (2024-05-25 22:31:39 IST). The table has a delete icon at the end of the last column.

The screenshot shows the Microsoft Azure Data Factory interface. On the left, a sidebar lists various options like General, Connections, and Linked services. The 'Connections' section is currently selected. In the main area, under 'Linked services', there is a table showing one item: 'AzureDatabricksDeltaLake1' of type 'Azure Databricks Delta Lake'. A success message box is displayed at the top right, stating 'Successfully created Successfully created AzureDatabricksDeltaLake1 (Linked service)'.

Linked Azure synapse Analytics :

The screenshot shows the Microsoft Azure Data Factory interface. The 'Connections' section is selected in the sidebar. In the main area, under 'Linked services', there is a table showing one item: 'AzureDatabricksDeltaLake1' of type 'Azure Databricks Delta Lake'. To the right, a 'New linked service' dialog is open. It has tabs for 'Data store' and 'Compute', with 'Data store' selected. A search bar contains 'syna'. Below it, a list of categories includes 'All', 'Azure', 'Database', 'File', 'Generic protocol', 'NoSQL', and 'Services and apps'. Under 'Database', there is a preview card for 'Azure Synapse Analytics' featuring icons of a house and a cylinder. At the bottom of the dialog are 'Continue' and 'Cancel' buttons.

Username and Password is required to link synapse with data factory.

The screenshot shows the Azure Synapse Analytics workspace settings for '1046project1synapse'. The left sidebar includes sections for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings (Microsoft Entra ID, Properties, Locks), Analytics pools (SQL pools, Apache Spark pools, Data Explorer pools), and Security (Encryption, Networking). The main panel displays workspace details such as Resource group (Data_Engineering_Projects), Status (Succeeded), Location (North Europe), Subscription (Free Trial), and various endpoint URLs. Buttons for 'Open Synapse Studio' and 'Read documentation' are present at the bottom.

The screenshot shows the Azure Data Factory 'Linked services' configuration page. The left sidebar lists General, Connections (Linked services selected), Source control, Author, and Security. The main area shows a single item named 'AzureDatabricksDeltaLake1' of type 'Azure Databricks Delta Lake'. On the right, a 'New linked service' dialog is open for 'Azure Synapse Analytics'. It requires filling in 'Azure subscription' (Select all), 'Server name' (1046project1synapse (Synapse workspace)), 'Database name' (1046), 'SQL pool' (1046), 'Authentication type' (SQL authentication), 'User name' (sqladminuser), and 'Password' (redacted). The 'Create' button is visible at the bottom.

The screenshot shows the Microsoft Azure Data Factory interface. On the left, a sidebar lists various project components: General, Factory settings, Connections, Linked services (which is currently selected), Integration runtimes, Microsoft Purview, Source control, Git configuration, ARM template, Author, Triggers, Global parameters, Data flow libraries, Security, Credentials, Customer managed key, and Outbound rules. The main content area is titled "Linked services" and contains a table with two items:

Name	Type	Related	Annotations
AzureDatabricksDeltaLake1	Azure Databricks Delta Lake	0	
AzureSynapseAnalytics1	Azure Synapse Analytics	0	

A success message box is displayed in the top right corner: "Successfully created Successfully created AzureSynapseAnalytics1 (Linked service).".

Linked Azure Blob Storage :

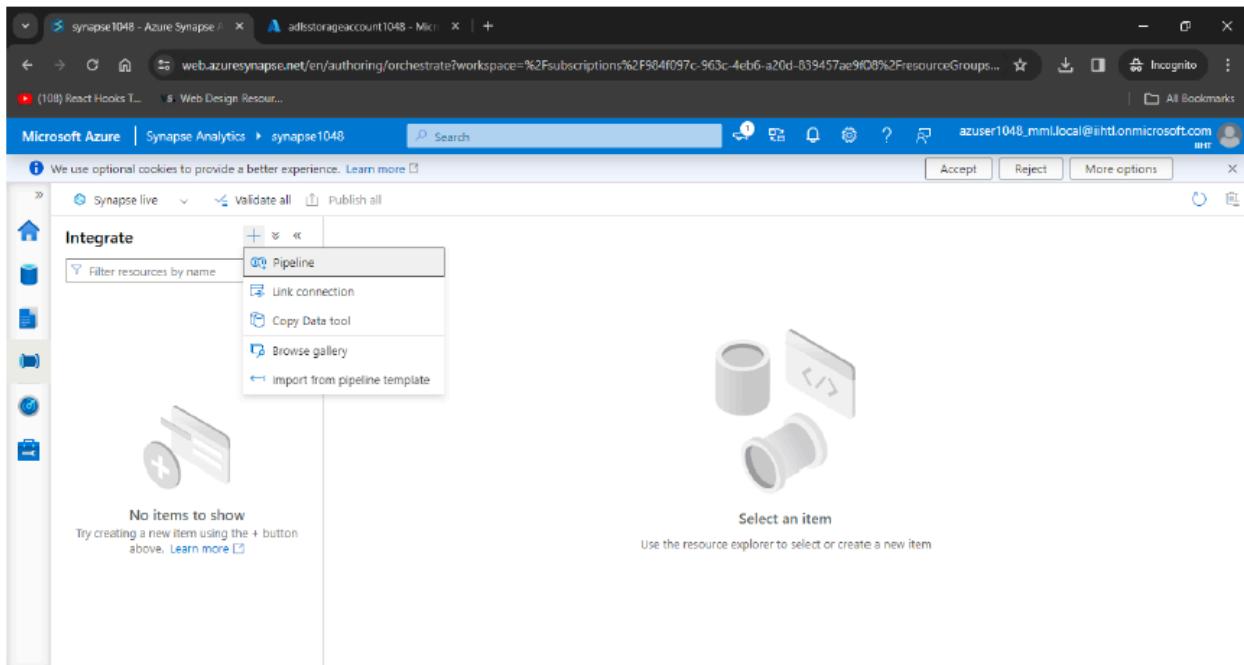
The screenshot shows the Microsoft Azure Data Factory interface. The sidebar is identical to the previous screenshot. The main content area is titled "New linked service". In the search bar, "Blob" is typed. Below the search bar, there are tabs for All, Azure, Database, File, Generic protocol, NoSQL, Services and apps. Under the "All" tab, a card for "Azure Blob Storage" is shown with a blue outline.

The screenshot shows the Microsoft Azure portal interface for Data Factory. The left sidebar has 'Data Factory' selected under 'Connections'. The main area is titled 'Linked services' with the sub-instruction 'Linked service defines the connection information to a data store or compute'. A 'New' button is visible. On the right, a 'New linked service' dialog is open, specifically for 'Azure Blob Storage'. It shows 'Account selection method' set to 'From Azure subscription' (selected) and 'Azure subscription' set to 'Select all'. Under 'Storage account name', '1046ads' is selected. Below that, 'Additional connection properties' and 'Test connection' (set to 'To linked service') are shown. At the bottom, a green success message 'Connection successful' is displayed along with 'Create', 'Back', 'Test connection', and 'Cancel' buttons.

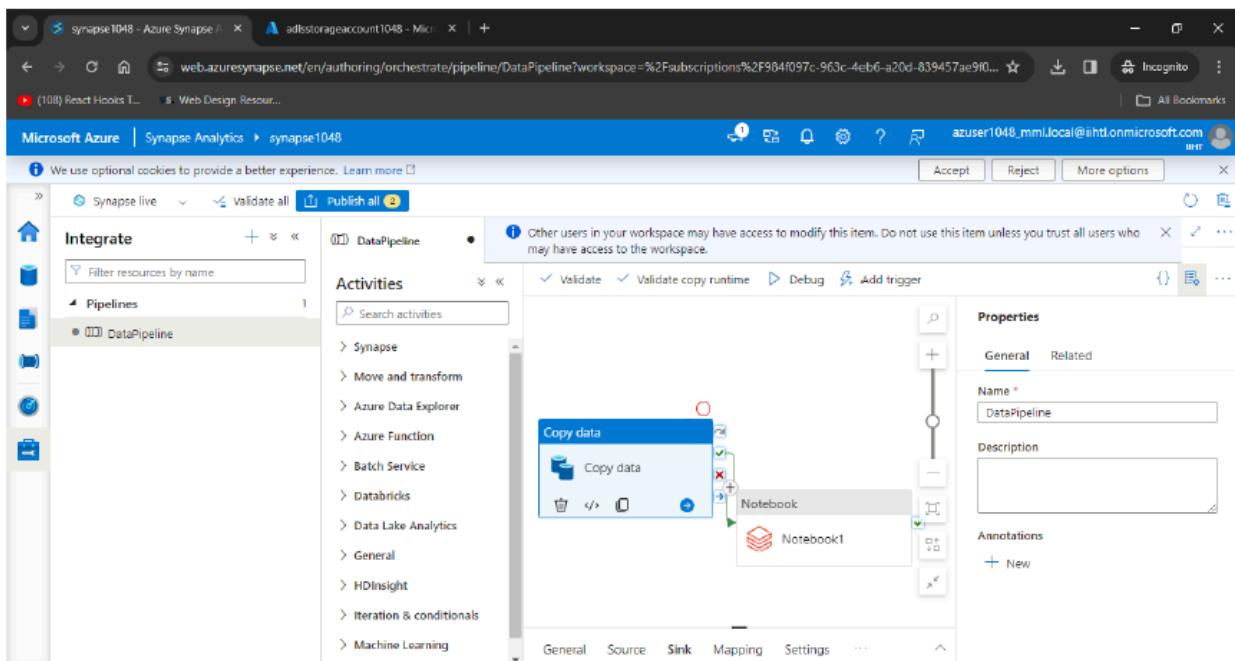
Linked the following services in Azure Data Factory :

The screenshot shows the Microsoft Azure portal interface for Data Factory. The left sidebar has 'Data Factory' selected under 'Connections'. The main area is titled 'Linked services' with the sub-instruction 'Linked service defines the connection information to a data store or compute'. A 'Successfully created' message box is visible at the top right, stating 'Successfully created AzureBlobStorage1 (Linked service)'. The main table lists three items: 'AzureblobStorage1' (Type: Azure Blob Storage), 'AzureDatabricksDeltaLake1' (Type: Azure Databricks Delta Lake), and 'AzureSynapseAnalytics1' (Type: Azure Synapse Analytics). The table includes columns for 'Name', 'Type', 'Related', and 'Annotations'.

Create a pipeline :



Drag Copy data from Activities side bar and configure the source and sink storage



Run the pipeline

The screenshot shows the Microsoft Azure Data Factory pipeline editor. On the left, the 'Factory Resources' sidebar lists 'Pipelines' (pipeline1), 'Datasets' (processeddata, Rawdata), 'Data flows', and 'Power Query'. The main workspace displays the 'Activities' pane for pipeline1, which includes options like 'Move and transform', 'Synapse', 'Azure Data Explorer', etc. A notifications bar at the top right indicates a successful run: 'Successfully running pipeline1 (Pipeline)'.

Pipeline ran successfully

The screenshot shows the 'Pipeline runs' page in the Microsoft Azure Data Factory interface. The left sidebar has 'Runs' selected. The main area shows a Gantt chart for 'pipeline1 - Activity runs' with two tasks: 'Copy data' (from datapipeline) and 'Notebook' (datacleaning). Both tasks are marked as 'Succeeded'. Below the chart is a table of 'Activity runs' with the following data:

Activity name	Activity status	Activity type	Run start	Duration	Integration runtime	User properties
datacleaning	Succeeded	Notebook	2/26/2024, 11:28:12 PM	38s	AutoResolveIntegration	
datapipeline	Succeeded	Copy data	2/26/2024, 11:27:55 PM	16s	AutoResolveIntegration	