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Cloud Week 1 Hands-On

1. Task 1:

a. Move the dataset onto Azure Storage Data lake gen2.

Microsoft Azure

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review

Security

Configure security settings that impact your storage account.

Require secure transfer for REST API operations

Allow enabling anonymous access on individual containers

Enable storage account key access

Default to Microsoft Entra authorization in

Review < Previous Next : Networking > Give feedback

Microsoft Azure

Create a storage account

Basics Advanced Networking Data protection Encryption Tags Review

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 Synapse Analytics > Create a storage account - Microsoft Storage Account - ARM

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Gemini Perplexity Home - Microsoft A... Databricks Commu...

Microsoft Azure Search resources, services, and docs (G+) DLTABCB4D14@ravins... RAVINSOFTTECH (RAVINSOFTTE...

Home > Storage accounts > Create a storage account ...

Basics Advanced Networking Data protection Encryption Tags Review

Protect your data from accidental or erroneous deletion or modification.

Enable point-in-time restore for containers
Use point-in-time restore to restore one or more containers to an earlier state. If point-in-time restore is enabled, then versioning, change feed, and blob soft delete must also be enabled. [Learn more](#)

Enable soft delete for blobs
Soft delete enables you to recover blobs that were previously marked for deletion, including blobs that were overwritten. [Learn more](#)

Enable soft delete for containers
Soft delete enables you to recover containers that were previously marked for deletion. [Learn more](#)

Enable soft delete for file shares
Soft delete enables you to recover file shares that were previously marked for deletion. [Learn more](#)

[Review](#) < Previous Next : Encryption > Give feedback

Microsoft Azure Synapse Analytics > Create a storage account - Microsoft Storage Account - ARM

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Gemini Perplexity Home - Microsoft A... Databricks Commu...

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Home > Storage accounts > Create a storage account ...

Basics Advanced Networking Data protection Encryption Tags Review

Encryption type * Microsoft-managed keys (MMK) Customer-managed keys (CMK)

Enable support for customer-managed keys Blobs and files only All service types (blobs, files, tables, and queues)
⚠ This option cannot be changed after this storage account is created.

Enable infrastructure encryption

[Review](#) < Previous Next : Tags > Give feedback

Microsoft Azure Synapse Analytics > Create a storage account - Microsoft Storage Account - ARM

portal.azure.com/#create/Microsoft.StorageAccount-ARM

Gemini Perplexity Home - Microsoft A... Databricks Commu...

Microsoft Azure Search resources, services, and docs (G+) DLTABCB4D14@ravins... RAVINSOFTTECH (RAVINSOFTTE...

Home > Storage accounts > Create a storage account ...

Basics Advanced Networking Data protection Encryption Tags Review

Encryption type * Microsoft-managed keys (MMK) Customer-managed keys (CMK)

Enable support for customer-managed keys Blobs and files only All service types (blobs, files, tables, and queues)
⚠ This option cannot be changed after this storage account is created.

Enable infrastructure encryption

[Review](#) < Previous Next : Tags > Give feedback

Microsoft Azure | dishadatalakes_1708415876743 | Overview

Your deployment is complete

Deployment name: dishadatalakes_1708415876743 Start time: 2/20/2024, 1:28:04 PM
Subscription: RDBG Correlation ID: 72048fce-901f-439b-952b-2665064df600
Resource group: RDBG

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

Cost Management

Get notified to stay within your budget and prevent unexpected charges on your bill.
Set up cost alerts >

Microsoft Defender for Cloud

Secure your apps and infrastructure
Go to Microsoft Defender for Cloud >

Free Microsoft tutorials

Start learning today >

Microsoft Azure | dishadatalakes - Microsoft Azure | Overview

dishadatalakes Storage account

Upload Open in Explorer Delete Move Refresh Open in mobile CLI / PS Feedback

Essentials

Resource group (move)	: RDBG	Performance	: Standard
Location	: eastus	Replication	: Read-access geo-redundant storage (RA-GRS)
Primary/Secondary Location	: Primary: East US, Secondary: West US	Account kind	: StorageV2 (general purpose v2)
Subscription (move)	: RDBG	Provisioning state	: Succeeded
Subscription ID	: 23d99a1f-8507-41a7-b40b-64402a51e95e	Created	: 2/20/2024, 1:28:10 PM
Disk state	: Primary: Available, Secondary: Available		

Tags (edit) : Add tags

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

Data Lake Storage

Hierarchical namespace	Enabled
Default access tier	Hot

Security

Require secure transfer for REST API operations	Enabled
---	---------

dishadatalakes - Microsoft Azure

portal.azure.com/#@ravinsofttech.com/resource/subscriptions/23d99a1f-8507-41a7-b40b-64402a51e95e/resourcegroups/RDBG/provi...

Gemini Perplexity Home - Microsoft A... Databricks Commu...

Microsoft Azure Search resources, services, and docs (G+)

Home > dishadatalakes_1708415876743 | Overview > dishadatalakes

dishadatalakes | Containers

Storage account

Search Container Change access level Restore containers Refresh Delete Give feedback

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

Data storage

Containers File shares Queues

Name Last modified Anonymous access level Lease state

Name	Last modified	Anonymous access level	Lease state
\$logs	2/20/2024, 1:28:33 PM	Private	Available
dishalakecontainer	2/20/2024, 1:30:29 PM	Container	Available

Show deleted containers

dishalakecontainer - Microsoft

portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/~/overview/storageAccountId/%2Fsubscriptions%2F23d99a1f-8507-41a7-b40b-64402a51e95e/resourcegroups/RDBG/providers/Microsoft...

Gemini Perplexity Home - Microsoft A... Databricks Commu...

Microsoft Azure Search resources, services, and docs (G+)

Home > dishadatalakes_1708415876743 | Overview > dishadatalakes | Containers >

dishalakecontainer

Container

Successfully uploaded blob(s)
Successfully uploaded 1 blob(s).

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

Authentication method: Access key (Switch to Microsoft Entra user account)
Location: dishalakecontainer

Search blobs by prefix (case-sensitive)

Name Modified Access tier Archive status Blob type Size

Name	Modified	Access tier	Archive status	Blob type	Size
NYC311data.csv	2/20/2024, 1:32:06 PM	Hot (Inferred)		Block blob	20.9

Show deleted objects

Shared access tokens Manage ACL Access policy Properties Metadata



b. Access the Storage Data Lake gen 2 on synapse serverless pool.

The screenshot shows the 'Create Synapse workspace' wizard in the Azure portal. The current step is 'Basics'. The form fields are as follows:

- Workspace name ***: dishasynapseworkspaces
- Region ***: East US
- Select Data Lake Storage Gen2 ***: From subscription (radio button selected)
- Account name ***: dishadatalakes
- File system name ***: dishalakecontainer
- Assign myself the Storage Blob Data Contributor role on the Data Lake Storage Gen2 account to interactively query it in the workspace.** (checkbox checked)

At the bottom, there are buttons for 'Review + create' and 'Next: Security >'.

The screenshot shows the 'Create Synapse workspace' wizard in the Azure portal. The current step is 'Security'. The form fields are as follows:

- Authentication**: Use both local and Microsoft Entra ID authentication (radio button selected)
- SQL Server admin login ***: disha
- SQL Password**: (redacted)
- Confirm password**: (redacted)

At the bottom, there are buttons for 'Review + create', '< Previous', and 'Next: Networking >'.

The taskbar at the bottom of the screen shows the Windows Start button, a search bar with 'Type here to search', and several pinned icons including Microsoft Edge, File Explorer, Task View, and others. The date and time are shown as 2/20/2024 1:35 PM.

c. Perform steps to create table on synapse serverless pool.

A dishasynapseworkspaces - Microsoft Edge portal.azure.com/#@ravinsofttech.com/resource/subscriptions/23d99a1f-8507-41a7-b40b-64402a51e95e/resourceGroups/RDBG...

Gemini Perplexity Home - Microsoft Azure Databricks Comm...

Microsoft Azure Search resources, services, and docs (G+)

Home > Microsoft.Azure.SynapseAnalytics-20240220134350 | Overview > RDBG

dishasynapseworkspaces

Synapse workspace

+ New dedicated SQL pool + New Apache Spark pool + New Data Explorer pool (preview) Refresh Reset SQL admin password Delete

Essentials

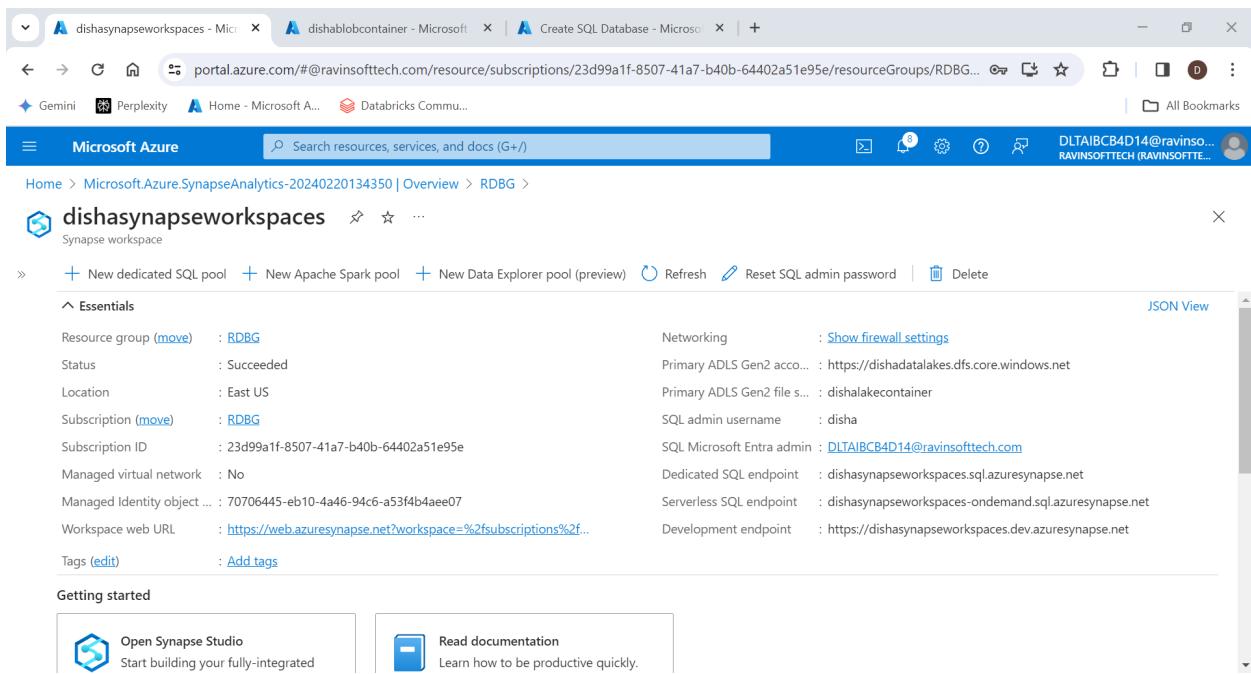
Resource group (move)	: RDBG	Networking	: Show firewall settings
Status	: Succeeded	Primary ADLS Gen2 account	: https://dishadatastores.dfs.core.windows.net
Location	: East US	Primary ADLS Gen2 file system	: dishalakecontainer
Subscription (move)	: RDBG	SQL admin username	: disha
Subscription ID	: 23d99a1f-8507-41a7-b40b-64402a51e95e	SQL Microsoft Entra admin	: DLTAIBCB4D14@ravinsofttech.com
Managed virtual network	: No	Dedicated SQL endpoint	: dishasynapseworkspaces.sql.azuresynapse.net
Managed Identity object ID	: 70706445-eb10-4a46-94c6-a53f4b4aee07	Serverless SQL endpoint	: dishasynapseworkspaces-on-demand.sql.azuresynapse.net
Workspace web URL	: https://web.azuresynapse.net/workspace=%2fsubscriptions%2f23d99a1f-8507-41a7-b40b-64402a51e95e	Development endpoint	: https://dishasynapseworkspaces.dev.azuresynapse.net
Tags (edit)	: Add tags		

Getting started

 Open Synapse Studio Start building your fully-integrated

 Read documentation Learn how to be productive quickly.

JSON View



Go to synapse studio

A dishasynapseworkspaces - Microsoft Edge web.azuresynapse.net/en/authoring/explore/linked/storageaccounts/dishasynapseworkspaces-WorkspaceDefaultStorage-dishadatastores%2...

Gemini Perplexity Home - Microsoft Azure Databricks Comm...

Microsoft Azure | Synapse Analytics > dishasynapseworkspa Search

Synapse live Validate all Publish all

Data

Linked

Workspace

Filter resources by name

Azure Data Lake Storage Gen2

dishasynapseworkspaces (Primary ...)

dishalakecontainer (Primary)

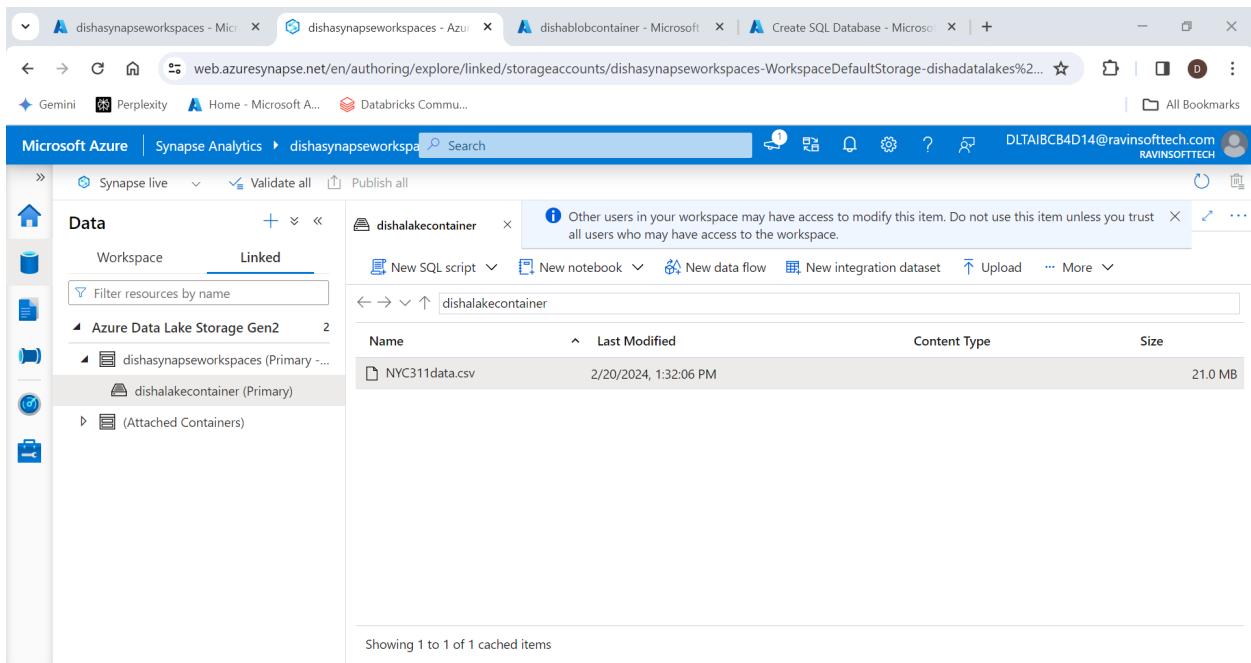
(Attached Containers)

dishalakecontainer

New SQL script New notebook New data flow New integration dataset Upload More

NYC311data.csv 2/20/2024, 1:32:06 PM 21.0 MB

Showing 1 to 1 of 1 cached items



Microsoft Azure | Synapse Analytics > dishasynapeworkspaces | Search

New external table

Source file format settings
Specify the format and layout of your data. [Learn more](#)

File path
dishalakecontainer/NYC311data.csv

Preview Data

File type
CSV

Field terminator
Default (comma ,)

First row
0

Infer column names

String delimiter

Continue Cancel

This screenshot shows the Microsoft Azure Synapse Analytics interface. On the left, there's a navigation sidebar with options like Home, Data, Develop, Integrate, Monitor, and Manage. The main area is titled 'New external table' and is used to import data from 'NYC311data.csv' located in the 'dishalakecontainer' folder of 'dishesynapeworkspaces'. The configuration includes setting the file type to CSV, defining the field terminator as a comma, and specifying the first row as 0. There are also options for inferring column names and setting a string delimiter.

Microsoft Azure | Synapse Analytics > dishasynapeworkspaces | Search

Create SQL database

Create database to organize your workload into databases and database objects.

Select SQL pool type *

Serverless

Dedicated

Database *
dishesqldatabase

Create Cancel

This screenshot shows the Microsoft Azure Synapse Analytics interface. The left sidebar has options like Home, Data, Develop, Integrate, Monitor, and Manage. The main area is titled 'Create SQL database' and is used to create a new database named 'dishesqldatabase'. It includes a section for selecting the SQL pool type, with 'Serverless' selected. A 'Create' button is at the bottom right.

The screenshot shows the Microsoft Azure portal interface for Synapse Analytics. On the left, there's a sidebar with 'Data' selected, showing 'Workspace' and 'Linked' sections. Under 'Linked', it lists 'Azure Data Lake Storage Gen2' and 'dishesynapeworkspaces (Primary ...)' which contains a 'dishalakecontainer (Primary)' item. The main area is titled 'New external table'. It has dropdowns for 'Select target database' (set to 'Learn more'), 'Select SQL pool' (set to 'Built-in'), and 'Select a database' (set to 'dishesqldatabase'). The 'External table name' field contains '[dbo].Inycexternal'. Below this, there are two radio button options: 'Automatically' and 'Using SQL script' (which is selected). A note below says 'This will generate a SQL script and you will be required to run the SQL script.' At the bottom, there are 'Open script', 'Back', and 'Cancel' buttons.

This screenshot shows the Microsoft Azure portal interface for Synapse Analytics. The left sidebar shows 'Data' selected, with 'Workspace' and 'Linked' sections. The 'Linked' section shows 'Azure Data Lake Storage Gen2' and 'dishesynapeworkspaces (Primary ...)' with 'dishalakecontainer (Primary)'. The main area displays an 'SQL script 1' tab. The script content is:

```
1 IF NOT EXISTS (SELECT * FROM sys.external_file_formats WHERE name = 'SynapseDelimitedTextFormat')
2 CREATE EXTERNAL FILE FORMAT [SynapseDelimitedTextFormat]
3 WITH (
4     FORMAT_TYPE = DELIMITEDTEXT ,
5     FORMAT_OPTIONS (
6         FIELD_TERMINATOR = ',',
7         FIRST_ROW = 2,
8         USE_TYPE_DEFAULT = FALSE
9     )
10 GO
11 IF NOT EXISTS (SELECT * FROM sys.external_data_sources WHERE name = 'dishalakecontainer_dishadatalakes_dfs_c')
12 CREATE EXTERNAL DATA SOURCE [dishalakecontainer_dishadatalakes_dfs_c]
13 WITH (
```

The 'Properties' pane on the right shows the following details:

- Name:** SQL script 1
- Type:** .sql script
- Size:** 2,640 bytes
- Results settings per query:** 1000 rows

At the bottom, there are tabs for 'Results' and 'Messages', and a status message '00:00:02 Query executed successfully.'

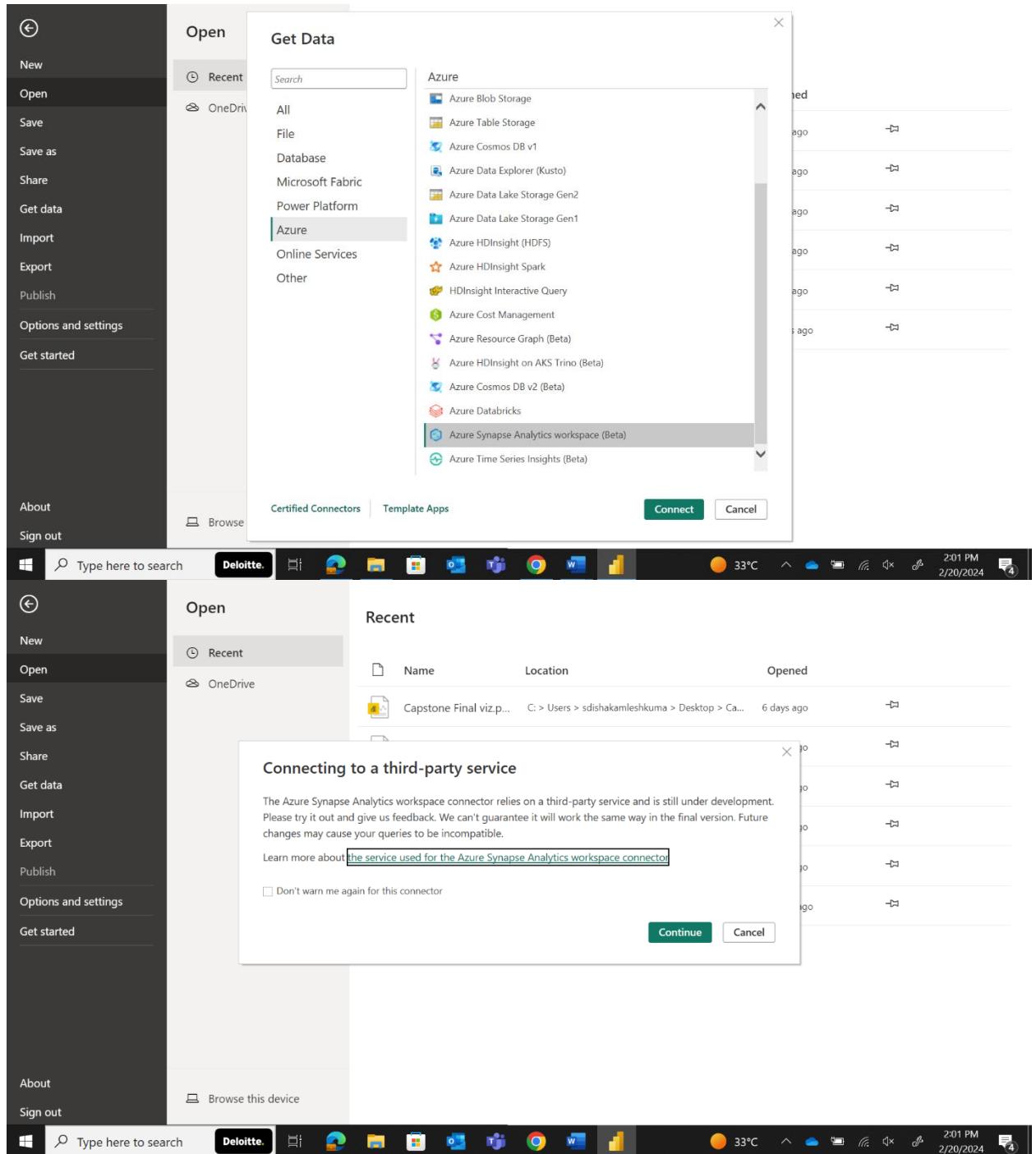
The screenshot shows the Microsoft Azure Synapse Analytics workspace interface. A table named "SQL script 1" is displayed, showing data from the "nycopd" database. The table has columns: Unique Key, Created Date, Closed Date, Agency, Agency Name, Complaint Type, and Descriptor. The data includes various complaints like Noise - Street/... and Loud Music/Party. The properties pane on the right shows the table's details: Name is "SQL script 1", Type is ".sql script", Size is 2,640 bytes, and Results settings per query is set to "First 5000 rows (default)".

Unique Key	Created Date	Closed Date	Agency	Agency Name	Complaint Type	Descriptor
32310363	12/31/2015 11:...	01-01-2016 00:...	NYPD	New York City P...	Noise - Street/...	Loud Music/Party
32309934	12/31/2015 11:...	01-01-2016 01:...	NYPD	New York City P...	Blocked Drivew...	No Access
32309159	12/31/2015 11:...	01-01-2016 04:...	NYPD	New York City P...	Blocked Drivew...	No Access
32305098	12/31/2015 11:...	01-01-2016 07:...	NYPD	New York City P...	Illegal Parking	Commercial Ov...
32306529	12/31/2015 11:...	01-01-2016 03:...	NYPD	New York City P...	Illegal Parking	Blocked Sidewalk
32306554	12/31/2015 11:...	01-01-2016 01:...	NYPD	New York City P...	Illeal Parking	Posted Parkin...

The screenshot shows the Microsoft Azure Synapse Analytics workspace interface. A SQL query is run against the "nycopd" database, specifically selecting top 1000 rows from the "nycopd" table. The results table is identical to the one shown in the first screenshot, displaying complaints from the NYPD.

Unique Key	Created Date	Closed Date	Agency	Agency Name	Complaint Type	Descriptor
32310363	12/31/2015 11:...	01-01-2016 00:...	NYPD	New York City P...	Noise - Street/...	Loud Music/Party
32309934	12/31/2015 11:...	01-01-2016 01:...	NYPD	New York City P...	Blocked Drivew...	No Access
32309159	12/31/2015 11:...	01-01-2016 04:...	NYPD	New York City P...	Blocked Drivew...	No Access
32305098	12/31/2015 11:...	01-01-2016 07:...	NYPD	New York City P...	Illegal Parking	Commercial Ov...
32306529	12/31/2015 11:...	01-01-2016 03:...	NYPD	New York City P...	Illegal Parking	Blocked Sidewalk
32306554	12/31/2015 11:...	01-01-2016 01:...	NYPD	New York City P...	Illeal Parking	Posted Parkin...

- d. Connect synapse to PowerBI to visualize the data and create dashboard on PowerBI(any 3 reports).



Navigator

Display Options ▾

- akshatworkspace
- anilysnapsworkspace
- aparnaworkspace
- deepshikhasynpse
- deovratworkspace
- dishasynapseworkspace
- dishasqldatabase [1]
- nyexternal**
- kishansynapse
- mahimaworkspc
- prajwalsynapse
- prajwalsynapse1
- sahadebsynapsews
- savvy-synapse
- shreyasynapse
- shriyashynapse
- soumisynapse
- synapseprajwal

Select Related Tables

Load Transform Data Cancel

Unique Key	Created Date	Closed Date	Agency	Agency Nar
32310363	12/31/2015 11:59:45 PM	01-01-2016 00:55	NYPD	New York C
32309934	12/31/2015 11:59:44 PM	01-01-2016 01:20	NYPD	New York C
32309159	12/31/2015 11:59:29 PM	01-01-2016 04:51	NYPD	New York C
32305098	12/31/2015 11:57:46 PM	01-01-2016 07:43	NYPD	New York C
32306529	12/31/2015 11:56:58 PM	01-01-2016 03:24	NYPD	New York C
32306554	12/31/2015 11:56:30 PM	01-01-2016 01:50	NYPD	New York C
32306559	12/31/2015 11:55:32 PM	01-01-2016 01:53	NYPD	New York C
32307009	12/31/2015 11:54:05 PM	01-01-2016 01:42	NYPD	New York C
32308581	12/31/2015 11:53:58 PM	01-01-2016 08:27	NYPD	New York C

The data in the preview has been truncated due to size limits.

Untitled - Power BI Desktop

File Home Insert Modeling View Optimize Help

Cut Copy Format painter Paste

Clipboard Get data Excel workbook hub Data SQL Server Enter data Dataverse Recent sources Transform data New visual Text box More visuals Insert Calculations Sensitivity

12/21/2015 1:30:00 AM Earliest Due Date

Number of incidents by Due Date

Due Date	Incidents
12/21/2015 1:30:00 AM	1.11K
12/22/2015 4:32:54 AM	1.13K
12/23/2015 7:35:48 AM	0.95K
12/24/2015 10:38:42 AM	1.18K
12/25/2015 1:41:36 PM	0.72K
12/26/2015 4:44:30 PM	1.01K
12/27/2015 7:47:24 PM	0.96K
12/28/2015 10:50:18 PM	0.93K
12/30/2015 1:53:12 AM	0.98K
12/31/2015 4:56:06 AM	1.04K

94.2%

Filters

Build visual

Values Add data fields here

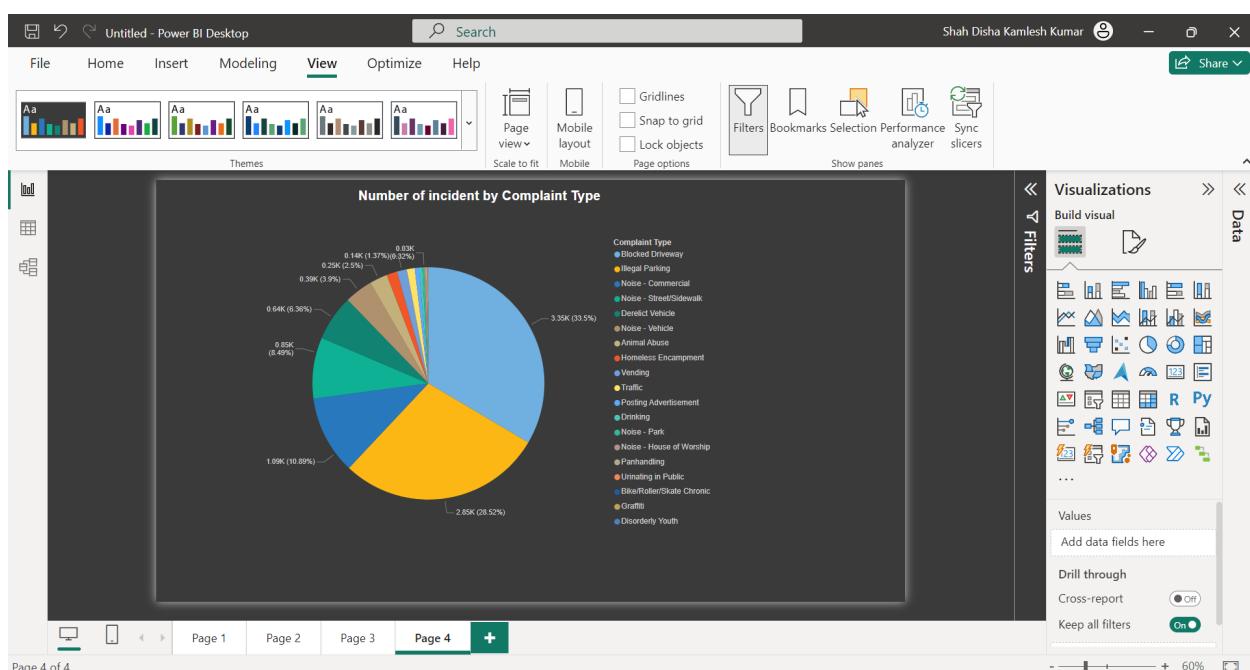
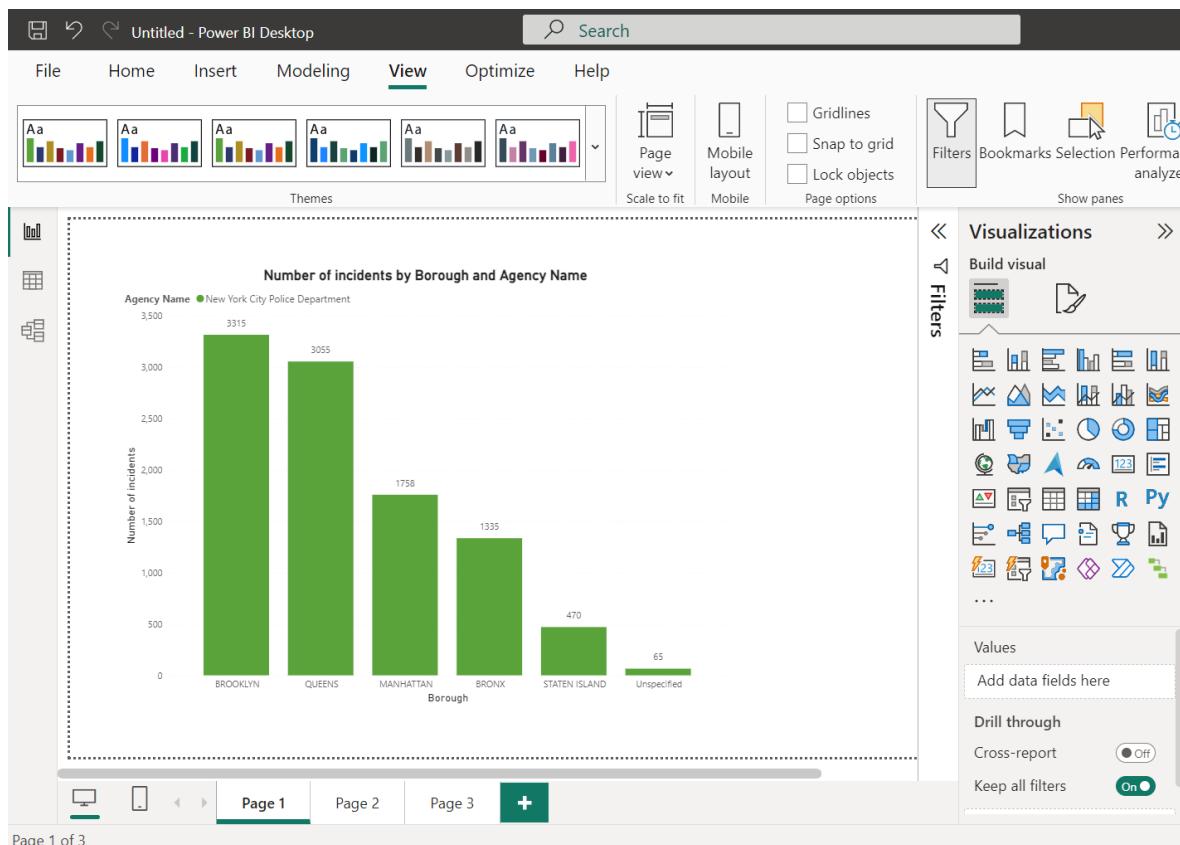
Drill through

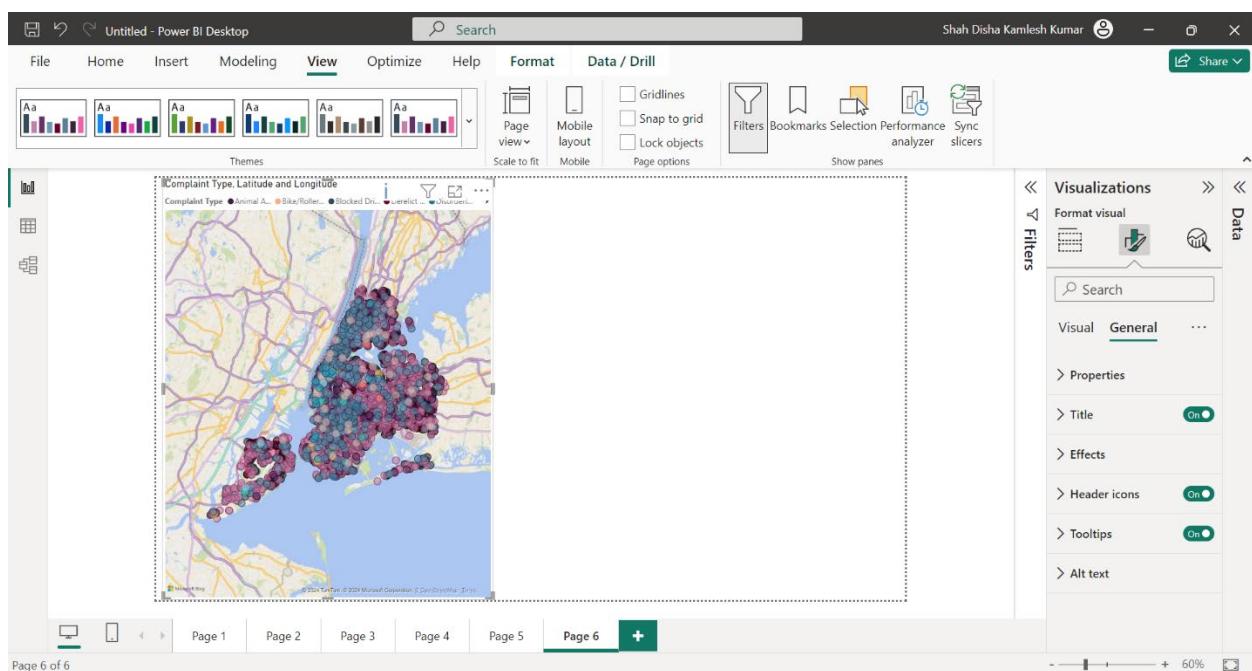
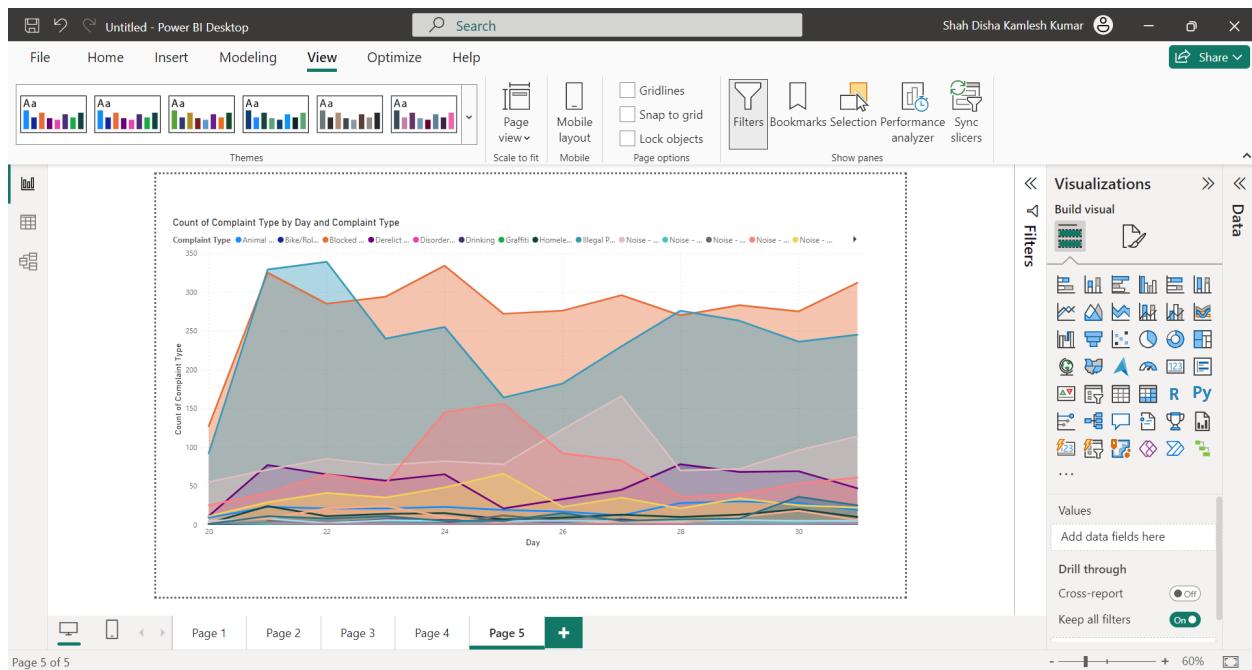
Cross-report Off

Keep all filters On

Page 1 Page 2 Page 3 +

Page 2 of 3





2. Task 2:

a. from Azure blob storage transfer the data to Azure SQL

The screenshot shows the 'Create a storage account' wizard on the 'Data protection' step. The 'Data protection' tab is selected at the top. Below it, there's a section titled 'Protect your data from accidental or erroneous deletion or modification.' with four options: 'Enable point-in-time restore for containers', 'Enable soft delete for blobs', 'Enable soft delete for containers', and 'Enable soft delete for file shares'. Each option has a description and a 'Learn more' link. At the bottom of the page are 'Review', '< Previous', 'Next : Encryption >', and 'Give feedback' buttons.

The screenshot shows the 'Create a storage account' wizard on the 'Encryption' step. The 'Encryption' tab is selected at the top. It includes sections for 'Encryption type' (with 'Microsoft-managed keys (MMK)' selected), 'Enable support for customer-managed keys' (with 'All service types (blobs, files, tables, and queues)' selected), and 'Enable infrastructure encryption' (with an unchecked checkbox). At the bottom of the page are 'Review', '< Previous', 'Next : Tags >', and 'Give feedback' buttons.

Screenshot of Microsoft Azure portal showing the creation of a SQL Database Server and the configuration of a Storage account.

Create SQL Database Server

Server details

Enter required settings for this server, including providing a name and location. This server will be created in the same subscription and resource group as your database.

Server name * dishaserver .database.windows.net

Location * (US) East US

Authentication

Azure Active Directory (Azure AD) is now Microsoft Entra ID. Learn more

OK

dishablobstorage Storage account

Upload Open in Explorer Delete Move Refresh Open in mobile CLI / PS Feedback

Essentials

Resource group (move)	: RDBG	Performance	: Standard
Location	: eastus	Replication	: Read-access geo-redundant storage (RA-GRS)
Primary/Secondary Location	: Primary: East US, Secondary: West US	Account kind	: StorageV2 (general purpose v2)
Subscription (move)	: RDBG	Provisioning state	: Succeeded
Subscription ID	: 23d99a1f-8507-41a7-b40b-64402a51e95e	Created	: 2/20/2024, 1:48:30 PM
Disk state	: Primary: Available, Secondary: Available		

Tags (edit) : Add tags

Properties Monitoring Capabilities (7) Recommendations (0) Tutorials Tools + SDKs

Blob service

Hierarchical namespace	Disabled
Default access tier	Hot

Security

Require secure transfer for REST API operations	Enabled
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Type here to search Deloitte. 33°C 1:49 PM 2/20/2024

New container

Name Container (anonymous read access for containers and blobs)

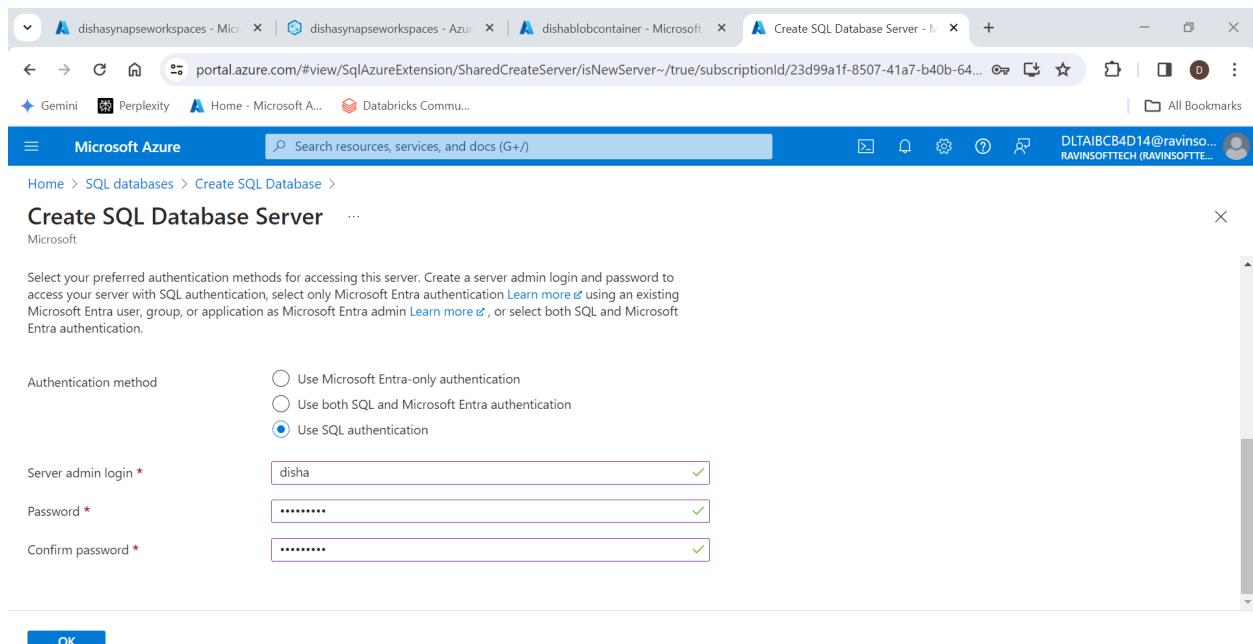
Container

Name	Last modified	Anonymous access level
\$logs	2/20/2024, 1:48:53 PM	Container (anonymous read access for containers and blobs)
dishablobcontainer	2/20/2024, 1:50:01 PM	Container (anonymous read access for containers and blobs)

Successfully created storage container

Successfully created storage container 'dishablobcontainer'.

Name	Last modified	Anonymous access level	Lease state
\$logs	2/20/2024, 1:48:53 PM	Private	Available
dishablobcontainer	2/20/2024, 1:50:01 PM	Container	Available

portal.azure.com/#view/SqAzureExtension/SharedCreateServer/isNewServer~/true/subscriptionId/23d99a1f-8507-41a7-b40b-64... 

Microsoft Azure

Home > SQL databases > Create SQL Database

Create SQL Database Server

Select your preferred authentication methods for accessing this server. Create a server admin login and password to access your server with SQL authentication, select only Microsoft Entra authentication [Learn more](#), or using an existing Microsoft Entra user, group, or application as Microsoft Entra admin [Learn more](#), or select both SQL and Microsoft Entra authentication.

Authentication method

Use Microsoft Entra-only authentication

Use both SQL and Microsoft Entra authentication

Use SQL authentication

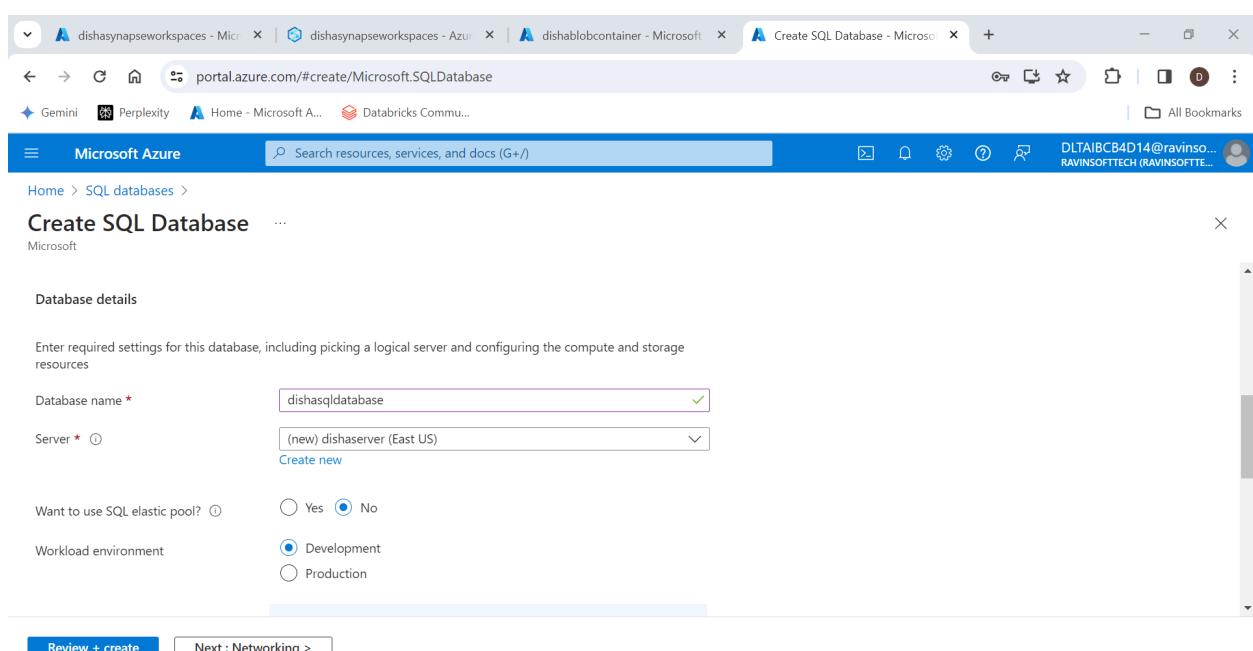
Server admin login *

disha

Password *

Confirm password *

OK Cancel

portal.azure.com/#create/Microsoft.SQLDatabase 

Microsoft Azure

Home > SQL databases

Create SQL Database

Database details

Enter required settings for this database, including picking a logical server and configuring the compute and storage resources

Database name *

dishesqldatabase

Server * 

Want to use SQL elastic pool? 

Workload environment

Development

Production

Review + create Next : Networking >

portal.azure.com/#create/Microsoft.SQLDatabase

Create SQL Database

Compute + storage * ⓘ

Basic
2 GB storage
[Configure database](#)

Backup storage redundancy

Choose how your PITR and LTR backups are replicated. Geo restore or ability to recover from regional outage is only available when geo-redundant storage is selected.

Backup storage redundancy ⓘ

Locally-redundant backup storage
 Zone-redundant backup storage
 Geo-redundant backup storage

⚠ Selected value for backup storage redundancy is Geo-redundant backup storage. Database backups will be geo-replicated which might impact.

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

portal.azure.com/#create/Microsoft.SQLDatabase

Create SQL Database

Basics **Networking** Security Additional settings Tags Review + create

Configure network access and connectivity for your server. The configuration selected below will apply to the selected server 'dishaserver' and all databases it manages. [Learn more](#)

Network connectivity

Choose an option for configuring connectivity to your server via public endpoint or private endpoint. Choosing no access creates with defaults and you can configure connection method after server creation. [Learn more](#)

Connectivity method * ⓘ

No access
 Public endpoint
 Private endpoint

Firewall rules

Setting 'Allow Azure services and resources to access this server' to Yes allows communications from all resources inside the Azure boundary, that may or may not be part of your subscription. [Learn more](#)

Cost summary

Basic (Basic)
Cost per DTU (in INR) 83.22
DTUs selected x 5
ESTIMATED COST / MONTH 416.11 INR

[Review + create](#) [< Previous](#) [Next : Security >](#)

A dishasynapsworkspaces - Microsoft Azure | dishasynapsworkspaces - Azure | dishablobcontainer - Microsoft Azure | Create SQL Database - Microsoft Azure | +

portal.azure.com/#create/Microsoft.SQLDatabase

Gemini Perplexity Home - Microsoft Azure Databricks Community All Bookmarks

Microsoft Azure Search resources, services, and docs (G+)

Home > SQL databases >

Create SQL Database

Microsoft

Firewall rules

Setting 'Allow Azure services and resources to access this server' to Yes allows communications from all resources inside the Azure boundary, that may or may not be part of your subscription. [Learn more](#)

Setting 'Add current client IP address' to Yes will add an entry for your client IP address to the server firewall.

Allow Azure services and resources to access this server *

No Yes

Add current client IP address *

No Yes

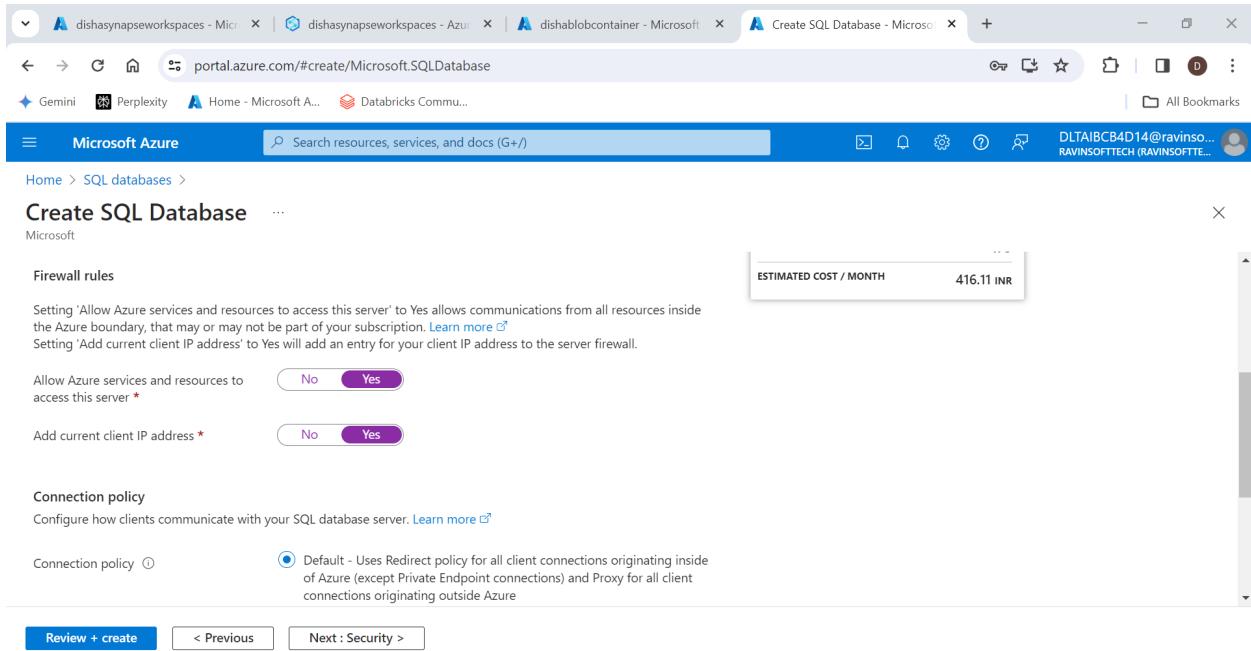
Connection policy

Configure how clients communicate with your SQL database server. [Learn more](#)

Connection policy ⓘ

Default - Uses Redirect policy for all client connections originating inside of Azure (except Private Endpoint connections) and Proxy for all client connections originating outside Azure

Review + create < Previous Next : Security >



A dishasynapsworkspaces - Microsoft Azure | dishasynapsworkspaces - Azure | Microsoft.DataFactory-202402 | dishasqldatabase (dishaserver) | +

portal.azure.com/#@ravinsofttech.com/resource/subscriptions/23d99a1f-8507-41a7-b40b-64402a51e95e/resourceGroups/RDBG... All Bookmarks

Gemini Perplexity Home - Microsoft Azure Databricks Community

Microsoft Azure Search resources, services, and docs (G+)

Home > Microsoft.SQLDatabase.newDatabaseNewServer_c72b8e711d3946aaeeab | Overview >

dishasqldatabase (dishaserver/dishasqldatabase)

SQL database

Copy Restore Export Set server firewall Delete Connect with... Feedback

Essentials

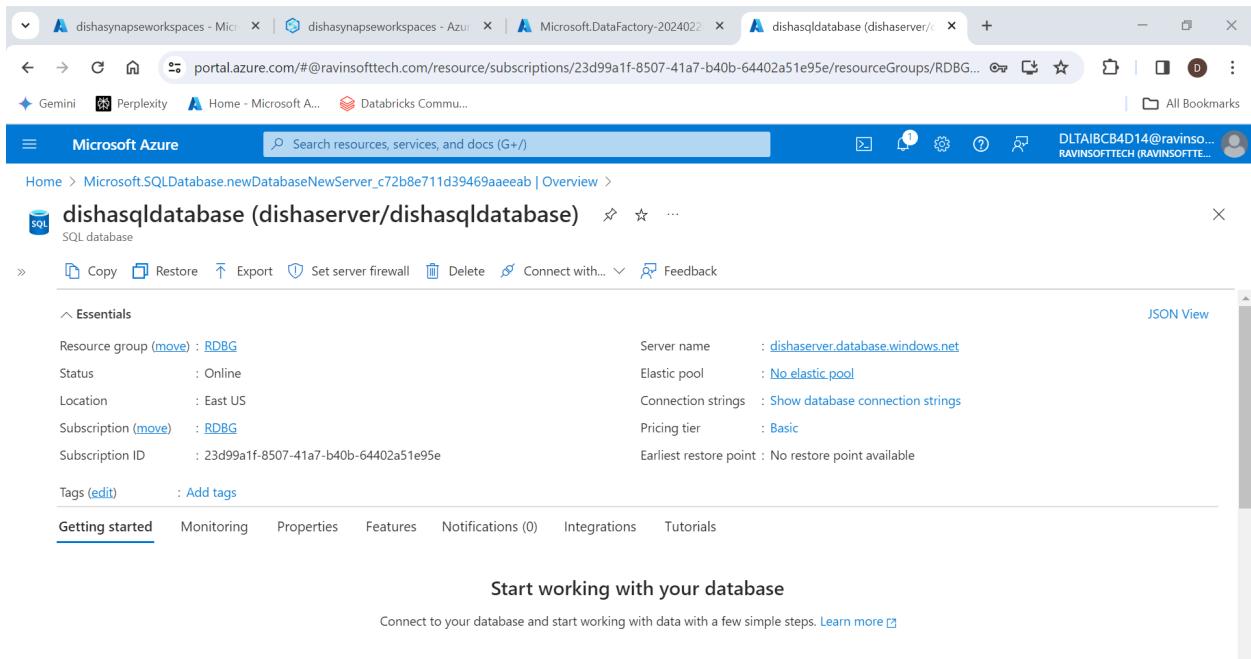
Resource group (move)	: RDBG	Server name	: dishaserver.database.windows.net
Status	: Online	Elastic pool	: No_elastic_pool
Location	: East US	Connection strings	: Show database connection strings
Subscription (move)	: RDBG	Pricing tier	: Basic
Subscription ID	: 23d99a1f-8507-41a7-b40b-64402a51e95e	Earliest restore point	: No restore point available

Tags (edit) : Add tags

Getting started Monitoring Properties Features Notifications (0) Integrations Tutorials

Start working with your database

Connect to your database and start working with data with a few simple steps. [Learn more](#)



Microsoft Azure | Microsoft DataFactory-20240220141514 | Overview

dishasdatafactory Data factory (V2)

Resource group (move) : RDBG

Status : Succeeded

Location : East US

Subscription (move) : RDBG

Subscription ID : 23d99a1f-8507-41a7-b40b-64402a51e95e

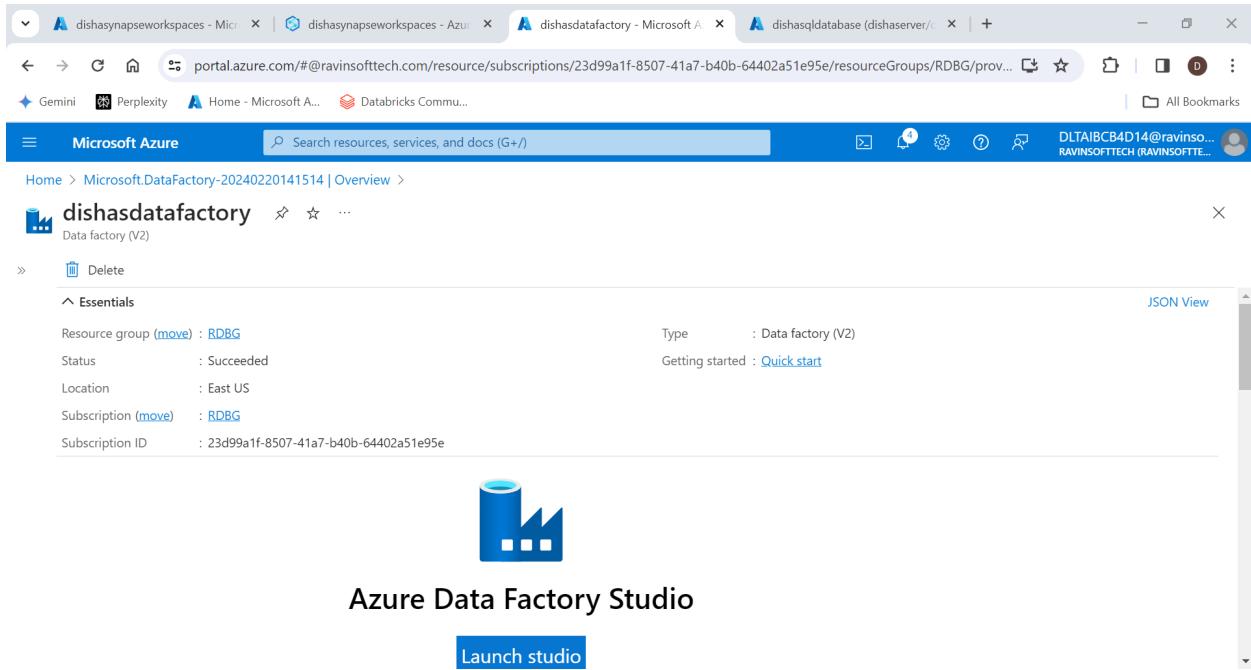
Type : Data factory (V2)

Getting started : Quick start

JSON View

Azure Data Factory Studio

Launch studio



Microsoft Azure | Data Factory > dishasdatafactory

Microsoft recently announced the public preview of Microsoft Fabric, a brand new and exciting way to build cloud-first data analytics. Click [here](#) to get started with Fabric Data Factory!

Preview experience Off

Factory Resources

Pipelines

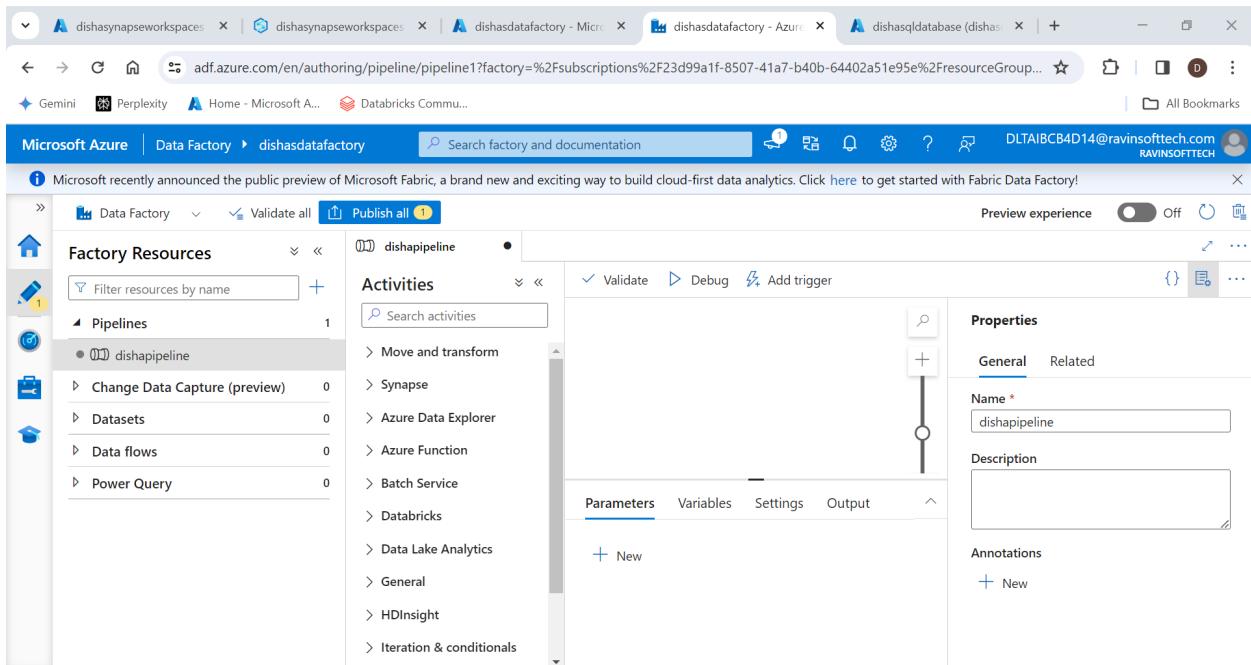
Activities

Properties

Name * dishipeline

Description

Annotations



The screenshot shows the Microsoft Azure Data Factory pipeline editor. A pipeline named "dishapipeline" is selected. On the left sidebar, under "Activities", "Move and transform" is expanded, showing "Copy data" and "Data flow". The main workspace displays a single "Copy data" activity named "Disha Copy data". The "General" tab is selected in the activity's properties pane. The properties pane on the right shows the following details:

- Name**: dishapipeline
- Description**: (empty)
- Activity state**: Activated

The screenshot shows the "Source" tab for the "Disha Copy data" activity. The "Source dataset" dropdown is set to "blob". The "Select..." button is visible. To the right, a "New dataset" dialog is open, titled "New dataset". It contains the following information:

In pipeline activities and data flows, reference a dataset to specify the location and structure of your data. [Learn more](#)

Select a data store

All Azure Database File Generic protocol NoSQL Services and apps

Azure Blob Storage

Continue **Cancel**

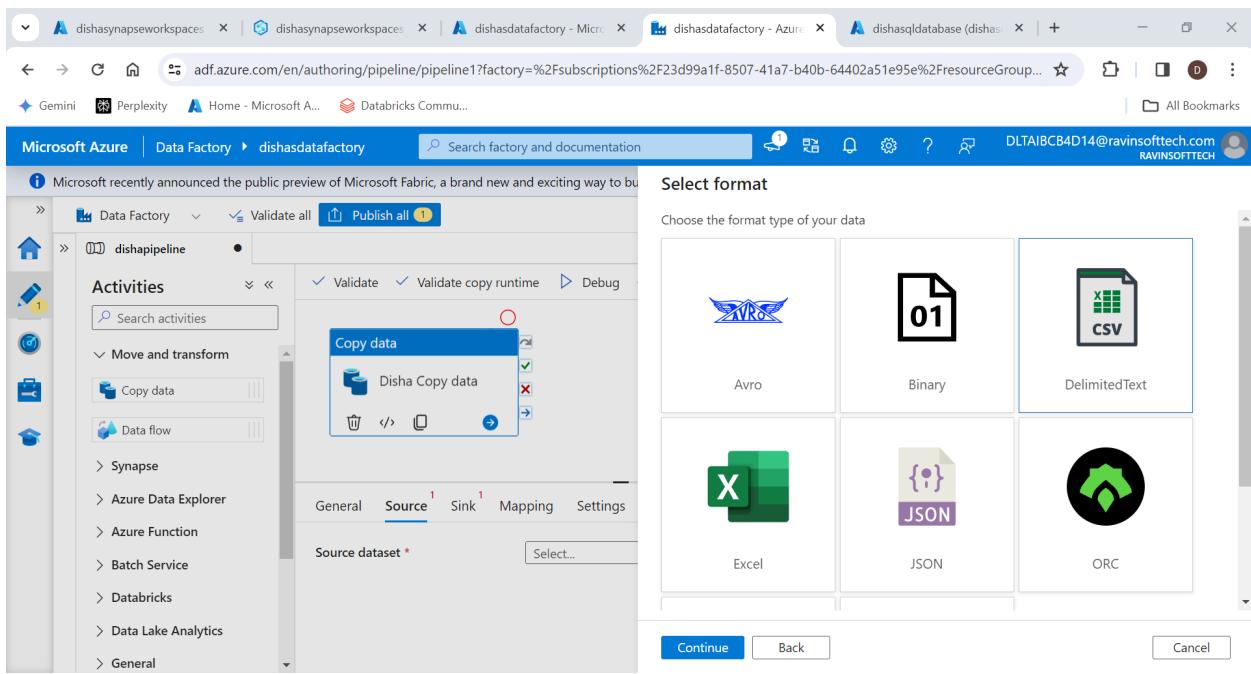
Microsoft Azure | Data Factory > dishasdatafactory

Select format

Choose the format type of your data

Avro	Binary	DelimitedText
Excel	JSON	ORC

Continue Back Cancel



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New linked service

Azure Blob Storage Learn more

Connection string Azure Key Vault

Account selection method

From Azure subscription Enter manually

Azure subscription

RDBG (23d99a1f-8507-41a7-b40b-64402a51e95e)

Storage account name *

dishblobstorage

Additional connection properties

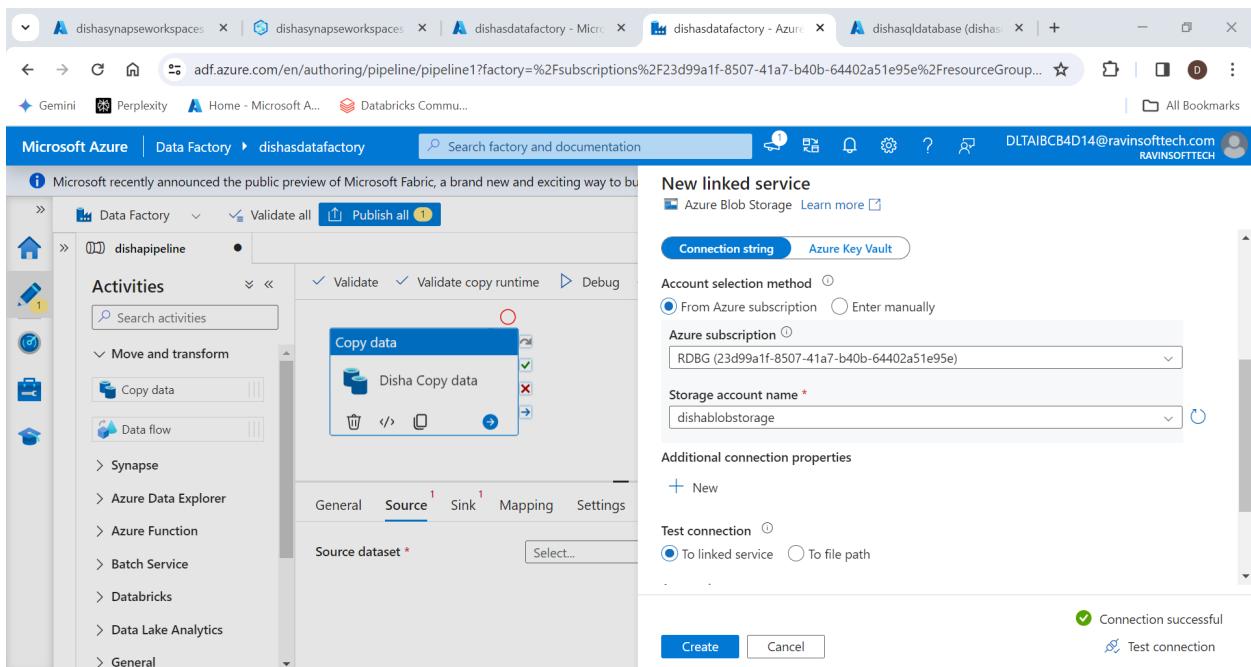
+ New

Test connection

To linked service To file path

Create Cancel

Connection successful Test connection



Microsoft Azure | Data Factory > dishasdatafactory

Set properties

Name: nyccsv

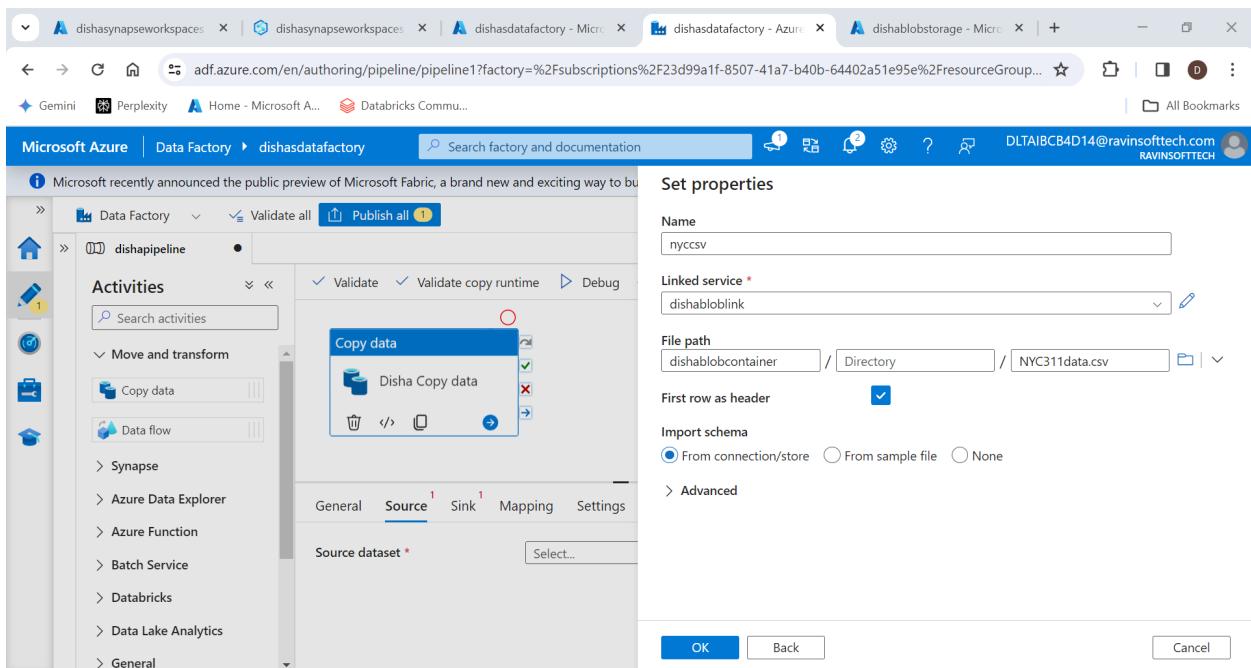
Linked service: dishabloblink

File path: dishablobcontainer / Directory / NYC311data.csv

First row as header: checked

Import schema: From connection/store (radio button selected)

OK Back Cancel



Microsoft Azure | Data Factory > dishasdatafactory

Preview experience: Off

Properties

General Related

Name: dishipeline

Description:

Annotations

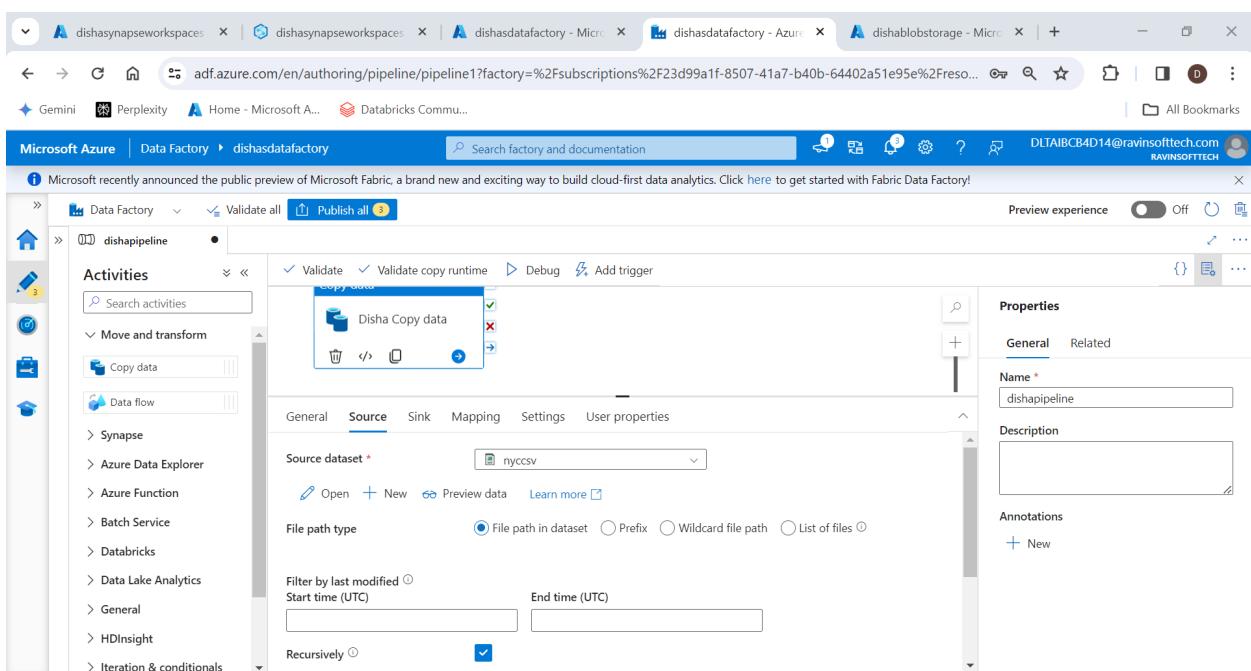
+ New

Activities

Source dataset: nyccsv

File path type: File path in dataset (radio button selected)

Filter by last modified: Start time (UTC) [] End time (UTC) [] Recursively []



The screenshot shows the Microsoft Azure Data Factory interface. A pipeline named 'dishipeline' is selected. On the left, the 'Activities' pane lists various options like Copy data, Data flow, Synapse, and Azure SQL Database. In the main workspace, a 'Disha Copy data' activity is highlighted. Below it, the 'Sink dataset' tab is selected in the activity's configuration pane. To the right, a 'New dataset' dialog is open, prompting the user to 'Select a data store'. A search bar contains 'sql'. Below it, a grid of data store options is shown under the 'All' category:

Azure Cosmos DB for NoSQL	Azure Database for MySQL	Azure Database for PostgreSQL
Azure SQL Database Managed Instance	Azure SQL Database Managed Instance	SQL server

At the bottom of the dialog are 'Continue' and 'Cancel' buttons.

This screenshot continues from the previous one, showing the 'Sink dataset' configuration for the 'Disha Copy data' activity. The 'User properties' tab is now active. On the right, a 'New linked service' dialog is open, specifically for an 'Azure SQL Database'. It shows the following configuration:

- From Azure subscription:** (selected)
- Azure subscription:** RD8G (23d99a1f-8507-41a7-b40b-64402a51e95e)
- Server name:** dishaserver
- Database name:** dishasqldatabase
- Authentication type:** dishasqldatabase (selected)
- User name:** disha
- Password:** (redacted)
- Always encrypted:**

At the bottom of the dialog are 'Create' and 'Cancel' buttons, along with a 'Test connection' link.

The screenshot shows the Microsoft Azure Data Factory interface. A pipeline named "dishipeline" is selected. On the left, the "Activities" pane is open, showing various options like Copy data, Data flow, Synapse, etc. A "Disha Copy data" activity is selected in the main workspace. The "Sink" tab is active in the activity's configuration pane. The "Set properties" section contains the following details:

- Name:** dishasqltable
- Linked service:** dishasqldatabaselink
- Table name:** dbo.nyc
- Import schema:** None (radio button selected)

At the bottom right of the configuration pane are "OK", "Back", and "Cancel" buttons.

This screenshot is similar to the one above, but it includes a "Preview experience" overlay on the right side. The "Off" toggle switch is turned off. The "Properties" section on the right shows the following information for the pipeline:

- Name:** dishipeline
- Description:** (empty)
- Annotations:** + New

The rest of the interface is identical to the first screenshot, showing the pipeline structure and the "Disha Copy data" activity configuration.

The screenshot shows the Microsoft Azure Data Factory pipeline editor. A pipeline named 'dishipeline' is selected. In the center, a 'Disha Copy data' activity is displayed under the 'Move and transform' category. The 'Mapping' tab is active, showing type conversion settings for three columns: 'Unique Key', 'Created Date', and 'Closed Date'. The 'Source' column lists these columns, and the 'Type' column indicates they are of type 'String'. The 'Destination' column lists them again. The 'Properties' pane on the right shows the pipeline's name as 'dishipeline'.

The screenshot shows the Microsoft Azure Data Factory pipeline editor after validation. The pipeline 'dishipeline' has been validated successfully. The 'Properties' pane on the right displays a green checkmark icon and the message 'Your pipeline has been validated.' It also states 'No errors were found.' A 'Close' button is at the bottom right of the validation output window.

The screenshot shows the Microsoft Azure Data Factory interface for validating a pipeline named "dishipeline". The validation process has been completed successfully. The pipeline run ID is 7fe8ca0a-8ef7-4693-88a2-d98b88648b15, and the status is "In progress". The pipeline status is "Succeeded". The validation output indicates no errors were found.

Properties

- General**: Name: dishipeline
- Description**: (empty)
- Annotations**: + New

Pipeline: Pipeline run ID: 7fe8ca0a-8ef7-4693-88a2-d98b88648b15. Pipeline status: In progress.

Output: Pipeline run ID: 7fe8ca0a-8ef7-4693-88a2-d98b88648b15. Pipeline status: In progress.

Activity Status: Disha Copy data: Queued

The screenshot shows the Microsoft Azure Data Factory interface for executing a pipeline named "dishipeline". The execution has been completed successfully. The pipeline run ID is 7fe8ca0a-8ef7-4693-88a2-d98b88648b15, and the status is "Succeeded". The pipeline status is "Succeeded". The execution output indicates no errors were found.

Properties

- General**: Name: dishipeline
- Description**: (empty)
- Annotations**: + New

Pipeline: Pipeline run ID: 7fe8ca0a-8ef7-4693-88a2-d98b88648b15. Pipeline status: Succeeded.

Output: Pipeline run ID: 7fe8ca0a-8ef7-4693-88a2-d98b88648b15. Pipeline status: Succeeded.

Activity Status: Disha Copy data: Succeeded

The screenshot shows the Microsoft Azure Query editor (preview) interface. On the left, there's a sidebar with navigation links like Overview, Activity log, Tags, Diagnose and solve problems, and Query editor (preview). The main area has a title bar "dishasqldatabase (dishaserver/dishasqldatabase) | Query editor (preview)". Below it, there's a search bar and a toolbar with Login, New Query, Open query, Feedback, and Getting started. The central part shows a database named "dishasqldatabase (disha)". A message says "Showing limited object explorer here. For full capability please click here to open Azure Data Studio." Below this are sections for Tables, Views, and Stored Procedures. To the right, a query editor window titled "Query 2" contains the following SQL code:

```
1  SELECT TOP (1000) * FROM [dbo].[nyc]
```

Below the code, the "Results" tab is selected, showing a table with three columns: Unique Key, Created Date, and Closed Date. The data row is: 32310363, 12/31/2015 11:59:45 PM, 01-01-2016 00:55, NYPD. At the bottom, a green status bar says "Query succeeded | 1s".

b. Create a new container in the storage prefix the container name with your name

The screenshot shows the Microsoft Azure Storage account interface. The left sidebar includes links for Overview, Activity log, Tags, Diagnose and solve problems, Access Control (IAM), Data migration, Events, Storage browser, Storage Mover, and Data storage (Containers, File shares). The main area shows a "Containers" section with a search bar and a "Search containers by prefix" input field. A button to "Show deleted containers" is also present. A table lists containers with columns: Name, Last modified, Anonymous access level, and Lease state. Two containers are listed: "\$logs" and "dishablobcontainer". A success message box is displayed in the top right corner: "Successfully created storage container Successfully created storage container 'dishablobcontainer'".

portal.azure.com/#view/Microsoft_Azure_Storage/ContainerMenuBlade/~/overview/storageAccountId/%2Fsubscriptions%2F23d99a1f-...       

Gemini Perplexity Home - Microsoft A... Databricks Commu...

Microsoft Azure Search resources, services, and docs (G+/) All Bookmarks

Home > Storage accounts > dishablobstorage | Containers >

dishablobcontainer Container

Search  Upload  Change access level  Refresh  Delete  Change tier  Acquire lease  Break lease  View snapshots  ...

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

Search blobs by prefix (case-sensitive)  Show deleted blobs 

Add filter 

Name	Modified	Access tier	Archive status	Blob type	Size
 NYC311data.csv	2/20/2024, 1:51:31 PM	Hot (Inferred)		Block blob	20.9