

Mallu Sravana Sandhya

Assessment-24

2/01/24

MailId: mallusravanasandhya9948@gmail.com

## Creating Azure Databricks workspace

manage all your resources.

Subscription \*

Resource group \*   
[Create new](#)

**Instance Details**

Workspace name \*

Region \*

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

Managed Resource Group name

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

click on create to create a workspace for azure databricks

Validation Succeeded

Basics Networking Encryption Tags Review + create

Summary

**Basics**

Workspace name	AzureDB-921
Subscription	Azure subscription 1
Resource group	rg-azuser921_mml.local-yVpvZ
Region	East US
Pricing Tier	premium
Managed Resource Group name	AzureDB-921

**Networking**

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

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

After clicking on create it shows deployment is in progress here it is

## creating a workspace

The screenshot shows the Microsoft Azure portal interface. The browser tabs include 'Azure Subscription - Data Eng...', 'MakeMyLabs', 'Join conversation', and 'rg-azuser921\_mml.local-yVpvZ...'. The address bar shows a URL from 'portal.azure.com'. The page title is 'rg-azuser921\_mml.local-yVpvZ\_AzureDB-921 | Overview'. The left sidebar has a search bar and navigation links for Overview, Inputs, Outputs, and Template. The main content area shows a 'Deployment is in progress' status. It includes deployment details such as name, subscription, resource group, start time, and correlation ID. A table lists the resources being deployed, showing 'AzureDB-921' of type 'Azure Databricks Service' with a status of 'Created'. On the right, there are links for Microsoft Defender for Cloud, free tutorials, and finding an expert. The Windows taskbar at the bottom shows the date as 03-01-2024 and time as 10:00.

Deployment is in progress

Deployment name : rg-azuser921\_mml.local-yVpvZ\_AzureDB-921 Start time : 03/01/2024, 10:00:20  
Subscription : Azure subscription 1 Correlation ID : bbb76310-64e9-44d3-bde6-56171138...  
Resource group : rg-azuser921\_mml.local-yVpvZ

Resource	Type	Status	Operation details
AzureDB-921	Azure Databricks Service	Created	<a href="#">Operation details</a>

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

Microsoft Defender for Cloud  
Secure your apps and infrastructure  
[Go to Microsoft Defender for Cloud >](#)

Free Microsoft tutorials  
[Start learning today >](#)

Work with an expert  
Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.  
[Find an Azure expert >](#)

Workspace is created now we have to click on launch workspace to work on databricks

The screenshot shows the Microsoft Azure portal interface for the 'AzureDB-921' Azure Databricks Service. The browser tabs and address bar are the same as in the previous screenshot. The page title is 'AzureDB-921 | Overview'. The left sidebar has a search bar and navigation links for Overview, Activity log, Access control (IAM), Tags, Diagnose and solve problems, Settings, Virtual Network Peerings, Encryption, Networking, Properties, Locks, Monitoring, and Diagnostic settings. The main content area shows the 'Essentials' section with details about the workspace: Status (Active), Managed Resource Group (AzureDB-921), URL, Location (East US), Pricing Tier (Premium), Subscription (Azure subscription 1), and Subscription ID (984f097c-963c-4eb6-a20d-839457ae9f08). There is a 'Launch Workspace' button at the bottom. The Windows taskbar at the bottom shows the date as 03-01-2024 and time as 10:04.

AzureDB-921  
Azure Databricks Service

Overview

Activity log  
Access control (IAM)  
Tags  
Diagnose and solve problems  
Settings  
Virtual Network Peerings  
Encryption  
Networking  
Properties  
Locks  
Monitoring  
Diagnostic settings

Essentials

Status : Active  
Managed Resource Group : [AzureDB-921](#)  
Resource group : [rg-azuser921\\_mml.local-yVpvZ](#)  
URL : [https://adb-7528519971700034.14.azuredatabricks.net](#)  
Location : East US  
Pricing Tier : Premium (+ [Role-based access controls](#))  
Subscription : [Azure subscription 1](#)  
Subscription ID : 984f097c-963c-4eb6-a20d-839457ae9f08  
Tags ([edit](#)) : [Add tags](#)

[Launch Workspace](#)



### Sign In to Databricks

Sign in using Azure Active Directory Single Sign On.

Signing you in

Contact your site administrator to request access.

Microsoft Azure

New

Workspace

Recents

Catalog

Workflows

Compute

SQL

SQL Editor

Queries

Dashboards

Alerts

Query History

SQL Warehouses

Data Engineering

Job Runs

Data Ingestion

Delta Live Tables

Notebook

Repo

Data

File upload

Add data

Compute

Cluster

SQL Warehouse

SQL

Query

Dashboard

Lakeview Dashboard

Alert

Data Engineering

Job

DLT Pipeline

Machine Learning

AutoML Experiment

Get started with Databricks

Start the SQL warehouse

A SQL warehouse is a simple compute resource that gives you the power to process data in the cloud. We've created your first warehouse for you. To start it, click the button below.

Start warehouse

Explore sample projects

Don't have your data handy? Learn how to gain insights in just a few steps with these sample projects.

1 SELECT

2 COUNT(distinct(custkey))

3 FROM

4 'samples', 'tpch', 'customer'

5 WHERE

SQL and visualizations

750,000

500,000

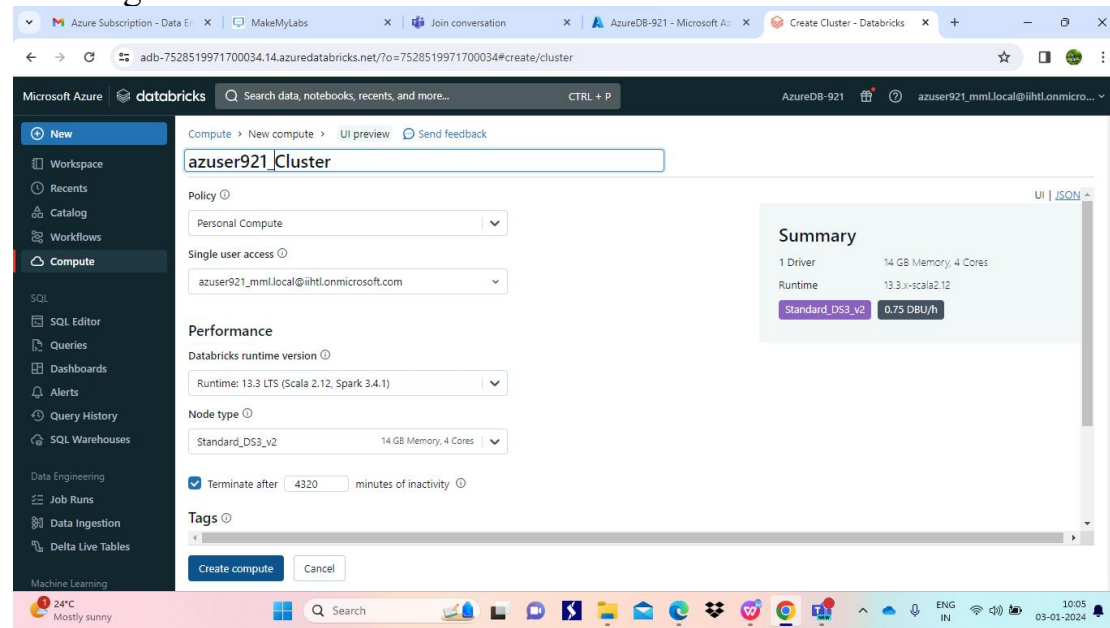
KPI dashboard

Data analysis in Python

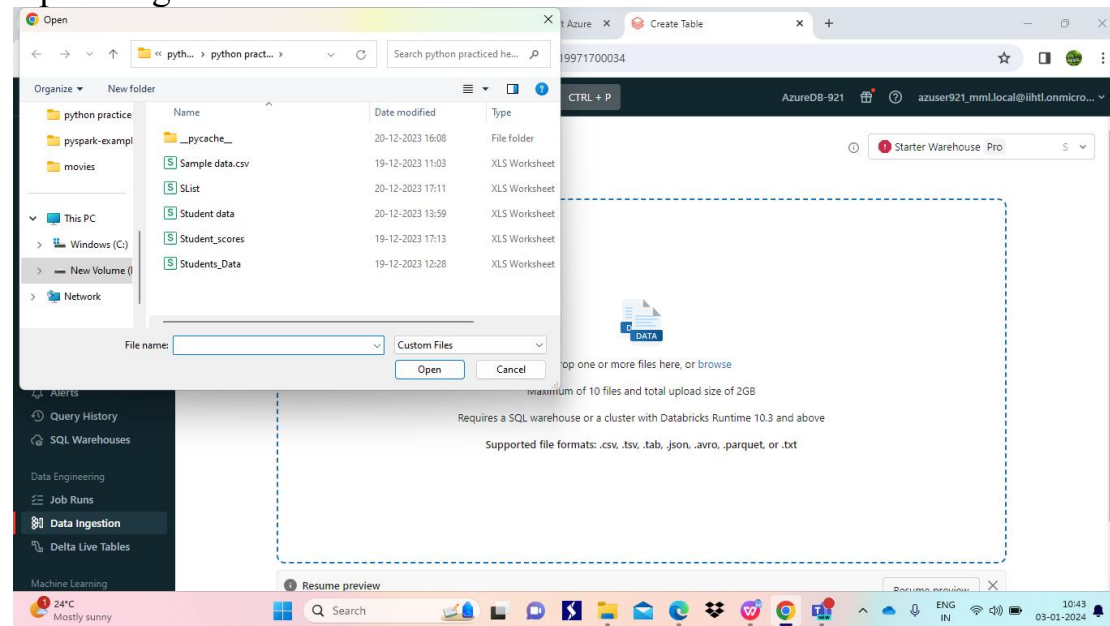
Skip onboarding

24°C Mostly sunny 10:04 03-01-2024

## Creating cluster



## Uploading CSV file



# Table created in Azure Databricks

The screenshot displays the Azure Databricks workspace interface. The top navigation bar includes the Microsoft Azure logo, the Databricks logo, a search bar, and the text "CTRL + P". The main header shows the current workspace name "Explore hive\_metastore.default.sample\_data\_csv" and the language "Python".

The left sidebar contains a navigation menu with the following items: New, Workspace, Recents, Catalog, Workflows, Compute, SQL, SQL Editor, Queries, Dashboards, Alerts, Query History, SQL Warehouses, Data Engineering, Job Runs, Data Ingestion, Delta Live Tables, and Machine Learning.

The main content area shows a SQL query editor with the following code:

```
1 %sql
2 SELECT * FROM 'hive_metastore`.`default`.`sample_data_csv`;
```

Below the query editor, the results are displayed as a table. The table has 7 columns: year, industry\_code\_ANZSIC, industry\_name\_ANZSIC, rme\_size\_grp, and variable. The data is truncated to 10,000 rows, and the runtime is 4.34 seconds.

	year	industry_code_ANZSIC	industry_name_ANZSIC	rme_size_grp	variable
1	2011	A	Agriculture, Forestry and Fishing	a_0	Activity unit
2	2011	A	Agriculture, Forestry and Fishing	a_0	Rolling mean employees
3	2011	A	Agriculture, Forestry and Fishing	a_0	Salaries and wages paid
4	2011	A	Agriculture, Forestry and Fishing	a_0	Sales, government funding, grants and subs
5	2011	A	Agriculture, Forestry and Fishing	a_0	Total income
6	2011	A	Agriculture, Forestry and Fishing	a_0	Total expenditure
7	2011	A	Agriculture, Forestry and Fishing	a_0	Operating profit before tax

At the bottom of the interface, there is a status bar showing the temperature "24°C Mostly sunny", a search bar, and the date "03-01-2024".