

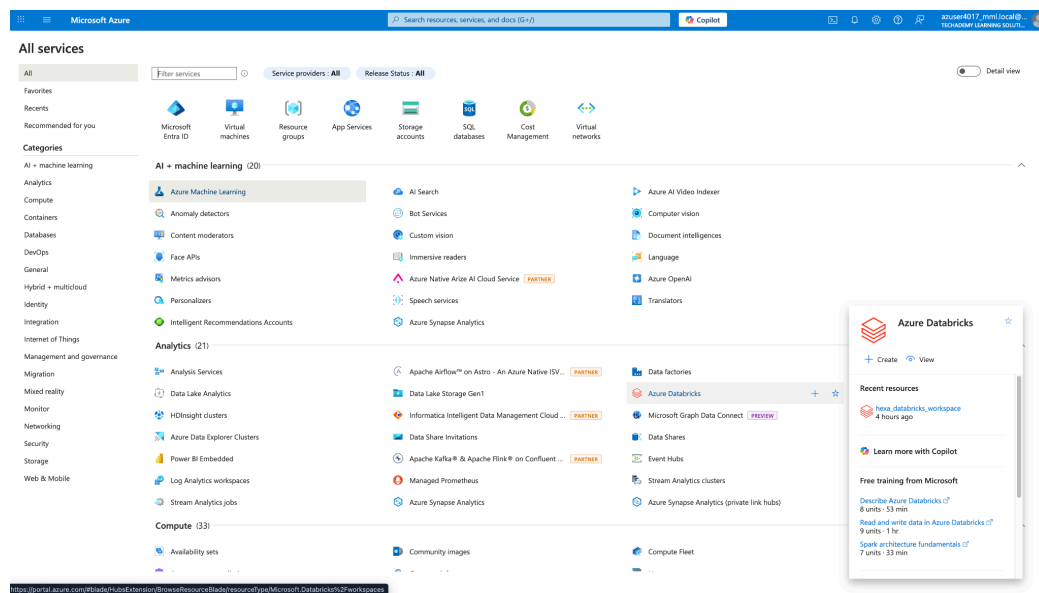
Databricks Assignment: Azure Databricks Setup:

By Esaq

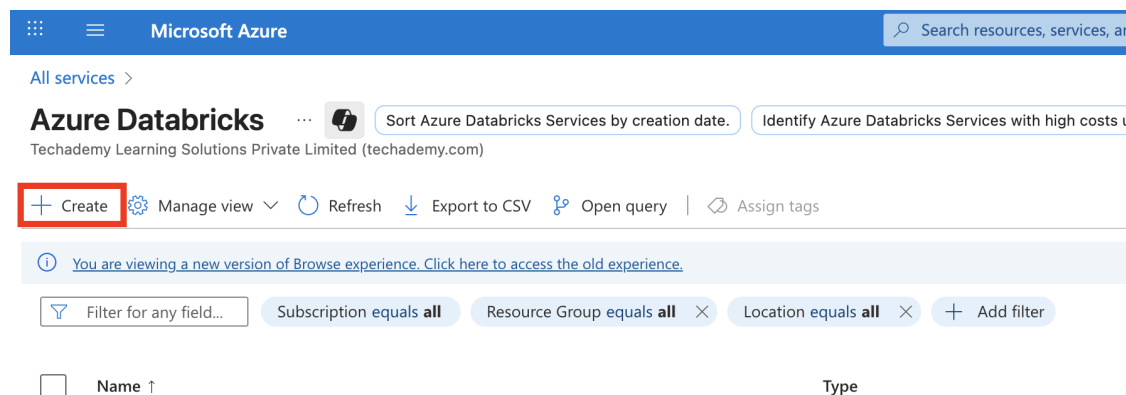
How to create Azure Databricks workspace:

1 . Open the Microsoft Azure portal and login

- Look for Azure Databricks in All Services and Select it:






2 . Then click on the **Create** option.



3 . Creating Azure Databricks workspace:

- i . Select the existing option or create new in Resource Group
- ii . Enter a workspace name
- iii . Select your nearest region for better connectivity
- iv . Select Pricing Tier according to your usage
- v . Enter a Managed Resource Group name (you can prefix mrg- on your workspace name)
- vi . Click Tags tab

  Microsoft Azure  Search

[All services](#) > [Azure Databricks](#) >

Create an Azure Databricks workspace ...

[Basics](#) [Networking](#) [Encryption](#) [Security & compliance](#) [Tags](#) [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 * ⓘ

MML Learners

Resource group * ⓘ

rg-azuser4017_mml.local-8wYaW

[Create new](#)

Instance Details

Workspace name *

sampleworkspace ✓

Region *

South India

Pricing Tier * ⓘ

Standard (Apache Spark, Secure with Microsoft Entra ID)

Managed Resource Group name

mrg-sampleworkspace

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

- vii . Enter the Tags Details (E.g. cluster in Name and sample in Value
- viii. Click on Review + Create

Microsoft Azure

Search

[All services](#) > [Azure Databricks](#) >

Create an Azure Databricks workspace ...

BasicsNetworkingEncryptionSecurity & complianceTagsReview + create

Name ⓘ	Value ⓘ	Resource	
<input type="text" value="cluster"/>	<input type="text" value="sample"/>	Azure Databricks Service	
<input type="text"/>	<input type="text"/>	Azure Databricks Service	

Review + create

< Previous

Next : Review + create >

- ix. Once Validation is Successful, click on Create and complete the creation of Databricks workspace



Create an Azure Databricks workspace ...

 Validation Succeeded

- Basics
- Networking
- Encryption
- Security & compliance
- Tags
- Review + create

Summary

Basics

Workspace name	sampleworkspace
Subscription	MML Learners
Resource group	rg-azuser4017_mml.local-8wYaW
Region	South India
Pricing Tier	standard
Managed Resource Group name	mrg-sampleworkspace

Networking

Deploy Azure Databricks workspace with Secure Cluster Connectivity (No Public IP)	Yes
Deploy Azure Databricks workspace in your own Virtual Network (VNet)	No

Encryption

Enable Infrastructure Encryption	No
Enable CMK for Managed Disks	No
Enable CMK for Managed Services	No

Security & compliance

Compliance Security Profile	No
Compliance Standards	
Enhanced Security Monitoring	No
Automatic Cluster Update	No

Create

< Previous

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Wait for the Deployment to be successful

Microsoft Azure

Search resources, services, and docs (G+I)

Copilot

All services >

rg-azuser4017_mml.local-8wYaW_sampleworkspace

Deployment

Overview

Search

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name : rg-azuser4017_mml.local-8wYaW_sampleworkspace

Subscription : MML Learners

Resource group : rg-azuser4017_mml.local-8wYaW

Start time : 8/7/2025, 12:46:43 AM

Correlation ID : 12547e13-7278-403b-952b-2acb2360a14e

Deployment details

Resource	Type	Status	Operation details
sampleworkspace	Azure Databricks Service	Created	Operation details

Give feedback

Tell us about your experience with deployment

Microsoft Azure

Search resources, services, and docs (G+I)

Copilot

All services >

rg-azuser4017_mml.local-8wYaW_sampleworkspace

Deployment

Overview

Search

Delete

Cancel

Redeploy

Download

Refresh

Overview

Inputs

Outputs

Template

Your deployment is complete

Deployment name : rg-azuser4017_mml.local-8wYaW_sampleworkspace

Subscription : MML Learners

Resource group : rg-azuser4017_mml.local-8wYaW

Start time : 8/7/2025, 12:46:51 AM

Correlation ID : 12547e13-7278-403b-952b-2acb2360a14e

Deployment details

Next steps

Go to resource

Give feedback

Tell us about your experience with deployment

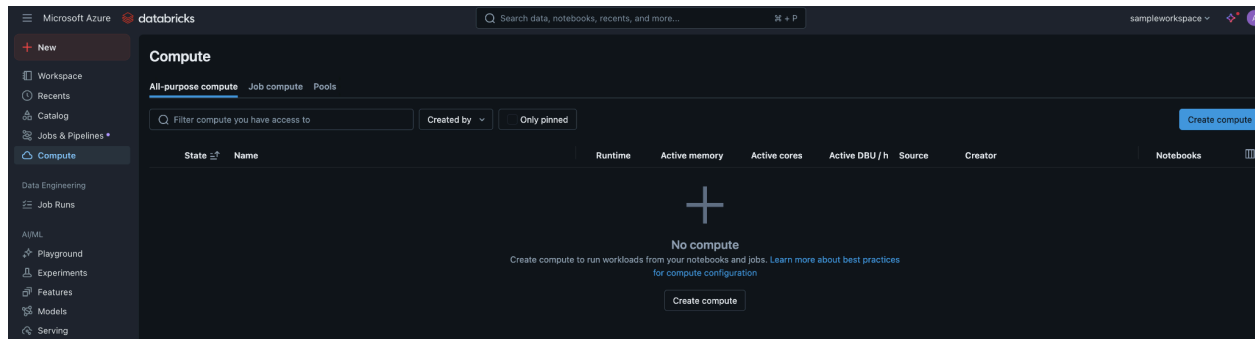
Once Deployment is successful, click on Launch and launch Databricks workspace.

The screenshot shows the Microsoft Azure portal interface for a resource named 'sampleworkspace'. The top navigation bar includes the Microsoft Azure logo, a search bar, and a Copilot button. Below the navigation bar, the breadcrumb trail reads 'All services > rg-azuser4017_mml.local-8wYaW_sampleworkspace | Overview >'. The main content area is divided into two sections: 'Essentials' and 'Overview'. The 'Essentials' section displays key information about the workspace, including its status (Active), resource group (rg-azuser4017_mml.local-8wYaW), location (South India), subscription (MML Learners), and subscription ID (2a3c6418-97b9-4d96-a24b-2c2d7633d375). The 'Overview' section shows the workspace's managed resource group (mrg-sampleworkspace), URL (https://adb-3518392443280075.15.azuredatabricks.net), pricing tier (Standard (Apache Spark, Secure with Microsoft Entra ID) (Click to change)), and enablement of public IP (Yes). Below the overview section, there is a large red Databricks logo and a 'Launch Workspace' button. Underneath the logo, there are two buttons: 'Launch Workspace' and 'Upgrade to Premium'. At the bottom of the page, there are several links and icons for documentation, getting started, import data from file, import data from Azure Storage, notebook, admin guide, and link Azure ML workspace.

The screenshot shows the Databricks 'Welcome to Databricks' dashboard. The top navigation bar includes the Microsoft Azure logo and the Databricks logo. Below the navigation bar, the main content area is divided into two sections: 'Welcome to Databricks' and 'Set up your workspace'. The 'Welcome to Databricks' section features a search bar and a 'Get started' button. The 'Set up your workspace' section provides a step-by-step guide for setting up the workspace for a new Databricks account, with a 'Get started' button. Below the 'Set up your workspace' section, there are several tabs: 'Recents', 'Favorites', 'Popular', 'Mosaic AI', and 'What's new'. At the bottom of the page, there is a 'Start your journey' section with a '+ New' button.

How to create new Compute in Databricks:

- Click on Compute on the side bar and navigate to it.
- Select +New option to create a new Compute



- Here check the Single node checkbox in the form
- add the previously entered Tag details while creating the workspace

The screenshot shows the 'Create new compute' form in Databricks. The form is divided into sections: General, Performance, Tags, and Advanced. In the General section, 'Compute name' is 'azuser4017_mml.local's Cluster 2025-08-07 01:02:58' and 'Policy' is 'Unrestricted'. In the Performance section, 'Machine learning' is unchecked, 'Databricks runtime' is '16.4 LTS (Scala 2.12)', 'Photon acceleration' is checked, 'Worker type' is 'Standard_D4ds_v5', 'Min' is '2', 'Max' is '8', and 'Single node' is unchecked. 'Enable autoscaling' and 'Terminate after 120 minutes of inactivity' are checked. In the Tags section, there are empty fields for 'Key' and 'Value'. In the Advanced section, 'Access mode' is 'Manual', 'Single user or group' is 'azuser4017_mml.local', and 'Init scripts' is empty. 'Create' and 'Cancel' buttons are at the bottom.

- After filling all the details, click on Create and create a new Compute

Microsoft Azure databricks

Search data, notebooks, recents, and more... % + P

+ New

Workspace

Recents

Catalog

Jobs & Pipelines *

Compute

Data Engineering

Job Runs

AI/ML

Playground

Experiments

Features

Models

Serving

Compute > Simple form: ON

azuser4017_mml.local's Cluster 2025-08-07 01:02:59

Configuration Notebooks (0) Libraries Event log Spark UI Driver logs Metrics Apps Spark compute UI - Master

General

Compute name

azuser4017_mml.local's Cluster 2025-08-07 01:0

Policy

Unrestricted

Performance

Machine learning

Databricks runtime

16.4 LTS (includes Apache Spark 3.5.2, Scala 2.12)

Photon acceleration

Node type

Standard_D4ds_v5 16 GB Memory, 4 Cores

Single node

Terminate after 120 minutes of inactivity

Advanced performance

Tags

Key Value

hexa cluster

> Automatically added tags

Advanced

Access mode

Spark

Logging

Init scripts

JDBC/ODBC

Access mode

Auto Manual [Legacy] Single user standard

Single user or group

azuser4017_mml.local@techademy.com

- The compute is created, now we can start working on notebook and execute code on Azure Databricks.