

ASSIGNMENT - 1 (Azure Databricks)

TRAINEE NAME: Swathi Baskaran

Creation of Azure Databricks Workspace

In the Azure Portal, click "Create a resource", search for "Azure Databricks" and select it. Click "Create", then fill in the Subscription, Resource Group, Workspace name, Region, and Pricing Tier. Finally, click "Review + create" and then "Create" to deploy the workspace.

The screenshot shows the 'Create an Azure Databricks workspace' form in the Azure Portal, specifically the 'Project Details' tab. The form is titled 'Create an Azure Databricks workspace' and includes a sub-header 'Project Details'. Below this, there is a note: 'Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and manage all your resources.' The form contains several fields: 'Subscription' (dropdown menu showing 'MML Learners'), 'Resource group' (dropdown menu showing 'rg-azuser4030_mml.local-dPBFR' with a 'Create new' link below it), 'Workspace name' (text input field with 'hexadatabrickwp' and a green checkmark), 'Region' (dropdown menu showing 'East US'), 'Pricing Tier' (dropdown menu showing 'Premium (+ Role-based access controls)' with a blue information box below it stating 'We selected the recommended pricing tier for your workspace. You can change the tier based on your needs.'), and 'Managed Resource Group name' (text input field with 'hexacluster'). At the bottom of the form, there are three buttons: 'Review + create' (blue), '< Previous' (grey), and 'Next : Networking >' (grey).

The screenshot shows the 'Create an Azure Databricks workspace' form in the Azure Portal, specifically the 'Networking' tab. The form is titled 'Create an Azure Databricks workspace' and includes a sub-header 'Networking'. Below this, there are two sections: 'Deploy Azure Databricks workspace with Secure Cluster Connectivity (No Public IP)' with radio buttons for 'Yes' (selected) and 'No', and 'Deploy Azure Databricks workspace in your own Virtual Network (VNet)' with radio buttons for 'Yes' and 'No' (selected). At the bottom of the form, there are three buttons: 'Review + create' (blue), '< Previous' (grey), and 'Next : Encryption >' (grey).

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

Microsoft Azure

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

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Create an Azure Databricks workspace ...

Basics Networking Encryption Security & compliance Tags Review + create

Data Encryption


For additional control of your data, you can add your own key to protect and control access to some types of data. Enabling customer-managed key encryption for Managed Services or Managed Disks is an irreversible action. The key, key vault, and key version may be updated but the features cannot be disabled after being enabled.

Managed Disks

Use your own key 

☐


Managed Services

Use your own key 

☐

Double encryption for DBFS root

In addition to your choice of the default encryption or your own managed key encryption, Azure Databricks DBFS root can also be encrypted with a second layer of encryption called infrastructure encryption using platform-managed key to achieve Double Encryption for DBFS root.

Enable Infrastructure Encryption 

☐

⚠ This feature cannot be changed after this workspace is created.

Review + create < Previous Next: Security & compliance >

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Enhanced Security & Compliance

Enhanced Security and Compliance Add-On helps simplify the complexity of meeting security and regulatory requirements.


Enable compliance security profile 

☐

⚠ This feature cannot be disabled once it is enabled.

Enable enhanced security monitoring 

☐

Enable automatic cluster update 

☐

Review + create < Previous Next: Tags >

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Review + create < Previous Next: Tags >

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Create an Azure Databricks workspace

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

Name	Value	Resource
cluster	Hexa	Azure Databricks Service
		Azure Databricks Service

Review + create < Previous Next: Review + create >

Workspace successfully Deployed!

portal.azure.com/#view/HubsExtension/DeploymentDetailsBlade/~/overview/id/%2fsubscriptions%2f2a3c6418-97b9-4d96-a24b-2c2d7633d375%2fresourceGroups%2frg-azuser4030_m...

Microsoft Azure

Home >

rg-azuser4030_mml.local-dPBfR_hexadatabrickws | Overview

Deployment

Search Delete Cancel Redeploy Download Refresh

Overview

- Inputs
- Outputs
- Template

Your deployment is complete

Deployment name : rg-azuser4030_mml.local-dPBfR_hexadatabrickws Start time : 8/6/2025, 10:48:44 AM
Subscription : MML Learners Correlation ID : bbe71887-1b71-48f7-9b52-0fb6c7f2fa76
Resource group : rg-azuser4030_mml.local-dPBfR

Deployment details

Resource	Type	Status	Operation details
hexadatabrickws	Azure Databricks Service	OK	Operation details

Next steps

[Go to resource](#)

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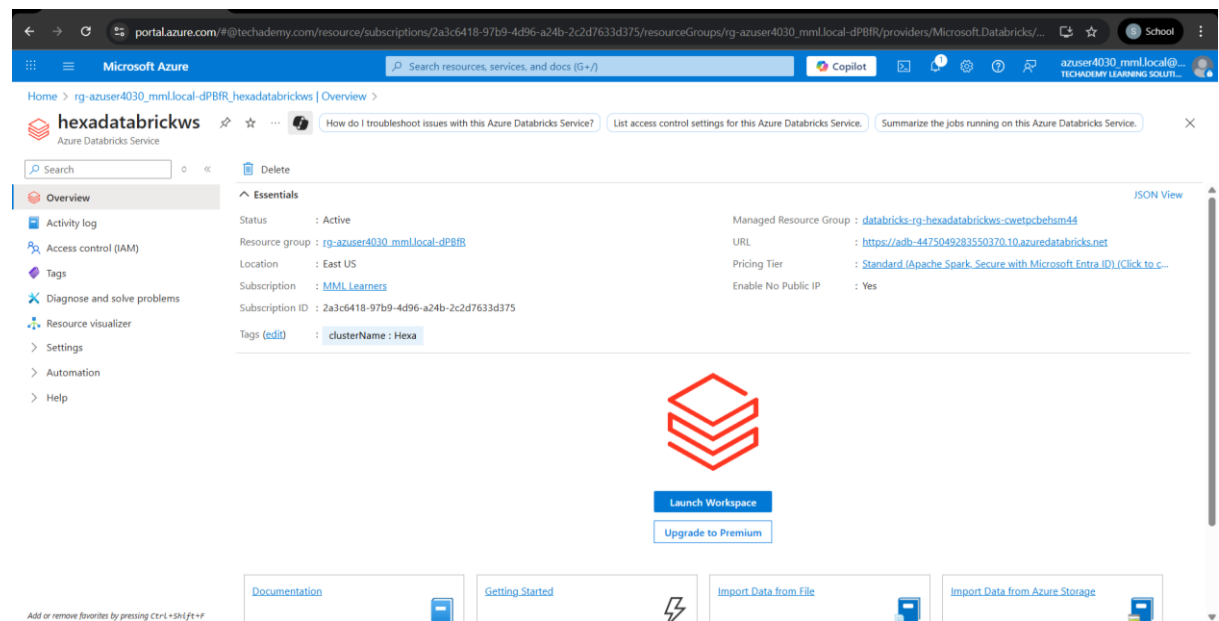
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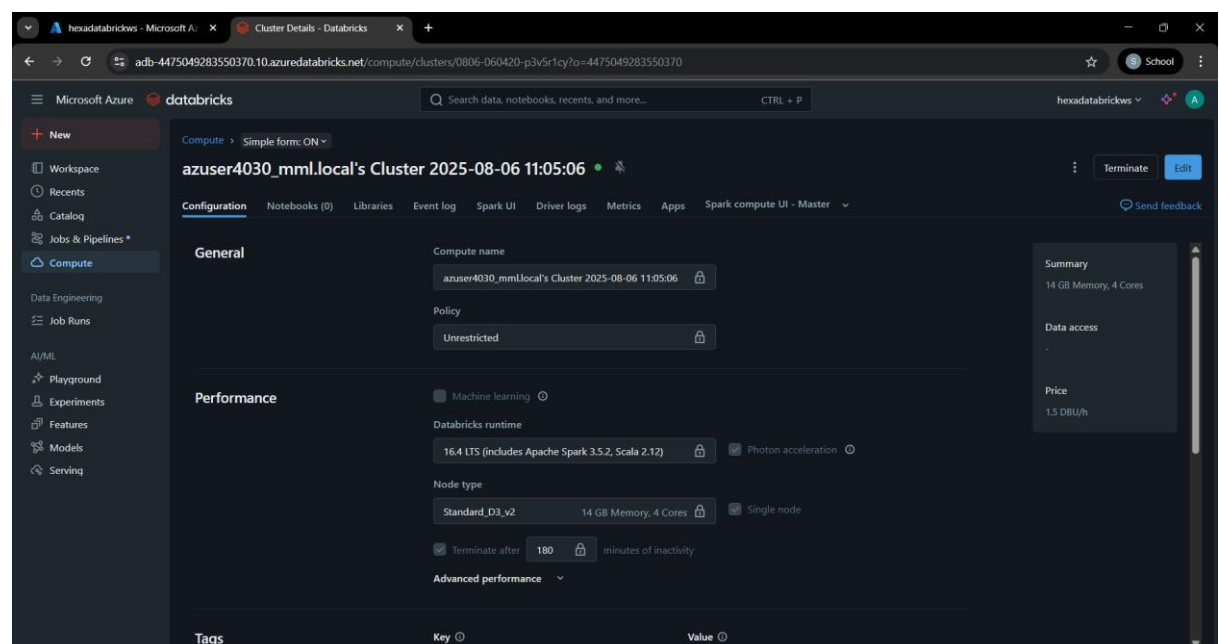
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Launching Azure Databricks workspace



Creating a cluster within Azure Databricks

After creating the Azure Databricks workspace in the Azure portal, click “Launch Workspace” to open the Databricks UI. Under the Compute tab, create a cluster and wait for it to start. Once active, go to Workspace to create notebooks, attach them to the cluster, and begin running PySpark or SQL code for data processing and visualization.



hexadatabricks - Microsoft A... Cluster Details - Databricks

adb-4475049283550370.10.azuredatabricks.net/compute/clusters/0806-060420-p3v5r1cy?o=4475049283550370

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+ New

- Workspace
- Recents
- Catalog
- Jobs & Pipelines *
- Compute

Data Engineering

- Job Runs

AI/ML

- Playground
- Experiments
- Features
- Models
- Serving

Compute > Simple form: ON

azuser4030_mml.local's Cluster 2025-08-06 11:05:06

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

Advanced performance

Tags

Key	Value
x_clusterName	Hexa

> Automatically added tags

Advanced

Access mode

Access mode

Spark

Logging

Init scripts

JDBC/ODBC

Summary

14 GB Memory, 4 Cores

Data access

-

Price

1.5 DBU/h

Terminate Edit

Send feedback

Cluster Created and Running

hexadatabricks - Microsoft A... Compute - Databricks

adb-4475049283550370.10.azuredatabricks.net/compute/interactive?o=4475049283550370

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Compute

All-purpose compute Job compute Pools Apps

Filter compute you have access to Created by Only pinned Create compute

State	Name	Runtime	Active memory	Active cores	Active DBU / h	Source	Creator	Notebooks
Running	azuser4030_mml.local's Cluster 2025-08-06 11:05...	16.4	14 GB	4 cores	1.5	UI	azuser4030_mml.local	-

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