

# Assignment-17

Name- Ajay Chaudhary  
Batch-Data Engineering(Batch-1)

The image shows two screenshots of the Microsoft Azure portal. The top screenshot displays the 'Create an Azure Databricks workspace' form. The bottom screenshot shows the 'Deployment is in progress' status page for the workspace.

**Create an Azure Databricks workspace**

**Project Details**

Select the subscription to manage deployed resources and costs. Use resource groups like folders to organize and 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 >](#)

**Deployment is in progress**

Deployment name : rg-azuser1071\_mml.local-84y1N\_hexa-deb-1... Start time : 14/02/2024, 09:43:30  
Subscription : Azure subscription 1 Correlation ID : 5857d5dc-a6da-4908-ace0-8435702360df  
Resource group : rg-azuser1071\_mml.local-84y1N

**Deployment details**

Resource	Type	Status	Operation details
hexa-deb-1071	Azure Databricks Service	Created	<a href="#">Operation details</a>

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Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.  
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hexa-deb-1071 - Microsoft A x +

portal.azure.com/#@iihtl.onmicrosoft.com/resource/subscriptions/984f097c-963c-4eb6-a20d-839457ae9f08/resourceGroups/rg-azuser1071\_mml.local... Incognito

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

Home > rg-azuser1071\_mml.local-84y1N\_hexa-deb-1071 | Overview >

**hexa-deb-1071**  
Azure Databricks Service

Search Delete

**Overview**

- Activity log
- Access control (IAM)
- Tags
- Diagnose and solve problems

**Settings**

- Virtual Network Peerings
- Encryption
- Networking
- Properties
- Locks

**Monitoring**

- Diagnostics settings


**Automation**

- CLI / PS
- Tasks (preview)
- Export templates

**Essentials** JSON View

Status : Active  
Resource group : [rg-azuser1071\\_mml.local-84y1N](#)  
Location : North Europe  
Subscription : [Azure subscription 1](#)  
Subscription ID : 984f097c-963c-4eb6-a20d-839457ae9f08  
Tags (edit) : [Add tags](#)

Managed Resource Group : [databricks-rg-hexa-deb-1071-tmnw5fihm6o3w](#)  
URL : [https://adb-1610535779354356.16.azuredatabricks.net](#)  
Pricing Tier : [Premium \(+ Role-based access controls\) \(Click to change\)](#)



[Launch Workspace](#)

[Documentation](#) [Getting Started](#) [Import Data from File](#) [Import Data from Azure Storage](#)

[Notebook](#) [Admin Guide](#) [Link Azure ML workspace](#)

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hexa-deb-1071 - Microsoft A x + Create Cluster - Databricks x +

adb-1610535779354356.16.azuredatabricks.net/?o=1610535779354356#create/cluster Incognito

Microsoft Azure databricks Search data, notebooks, recents, and more... hexa-deb-1071 azuser1071\_mml.local@iihtl.onmi...

**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

Machine Learning

- Experiments
- Features
- Models

Compute > New compute > Preview Send feedback

**azuser1071\_mml.local's Cluster**

**Policy**

Personal Compute

**Single user access**

azuser1071\_mml.local

**Performance**

**Databricks runtime version**

Runtime: 14.3 LTS ML (Scala 2.12, Spark 3.5.0)

**Node type**

Standard\_DS3\_v2 14 GB Memory, 4 Cores

☒ Terminate after 100 minutes of inactivity

**Tags**

Add tags

Key Value Add

> Automatically added tags

Create compute Cancel

**Summary**

1 Driver 14 GB Memory, 4 Cores  
Runtime 14.3.x-cpu-ml-scala2.12  
Standard\_DS3\_v2 0.75 DBU/h

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hexa-deb-1071 - Microsoft A x x Untitled Notebook 2024-02-14

adb-1610535779354356.16.azuredatabricks.net/?o=1610535779354356#notebook/668184762512720/command/668184762512721

Microsoft Azure databricks Search data, notebooks, recents, and more... hexa-deb-1071 azuser1071\_mml.local@iihtl.onmi...

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 Machine Learning Experiments Features Models

Untitled Notebook 2024-02-14 09:58:42 Python Last edit was 5 minutes ago New cell UI: OFF Run all azuser1071\_mml.local... Schedule Share

Cmd 1

```
1 sparkDF = spark.read.csv("/databricks-datasets/bikeSharing/data-001/day.csv", header="true", inferSchema="true")
2 display(sparkDF)
```

(3) Spark Jobs

sparkDF: pyspark.sql.dataframe.DataFrame = [instant: integer, dteday: date ... 14 more fields]

	instant	dteday	season	yr	mnth	holiday	weekday	workingday	weathersit	temp	ate
1	1	2011-01-01	1	0	1	0	6	0	2	0.344167	0.3
2	2	2011-01-02	1	0	1	0	0	0	2	0.363478	0.3
3	3	2011-01-03	1	0	1	0	1	1	1	0.196364	0.1
4	4	2011-01-04	1	0	1	0	2	1	1	0.2	0.2
5	5	2011-01-05	1	0	1	0	3	1	1	0.226957	0.2
6	6	2011-01-06	1	0	1	0	4	1	1	0.204348	0.3

731 rows | 18.19 seconds runtime Refreshed now

Command took 18.19 seconds -- by azuser1071\_mml.local@iihtl.onmicrosoft.com at 14/02/2024, 10:03:08 on azuser1071\_mml.local's Cluster

[Shift+Enter] to run  
[Shift+Ctrl+Enter] to run selected text

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hexa-deb-1071 - Microsoft A x x Untitled Notebook 2024-02-14

adb-1610535779354356.16.azuredatabricks.net/?o=1610535779354356#notebook/668184762512720/command/668184762512721

Microsoft Azure databricks Search data, notebooks, recents, and more... hexa-deb-1071 azuser1071\_mml.local@iihtl.onmi...

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Table Visualization 1

New charts: ON

casual

atemp

workingday

0 1

Edit Visualization 731 rows Refreshed 11 minutes ago