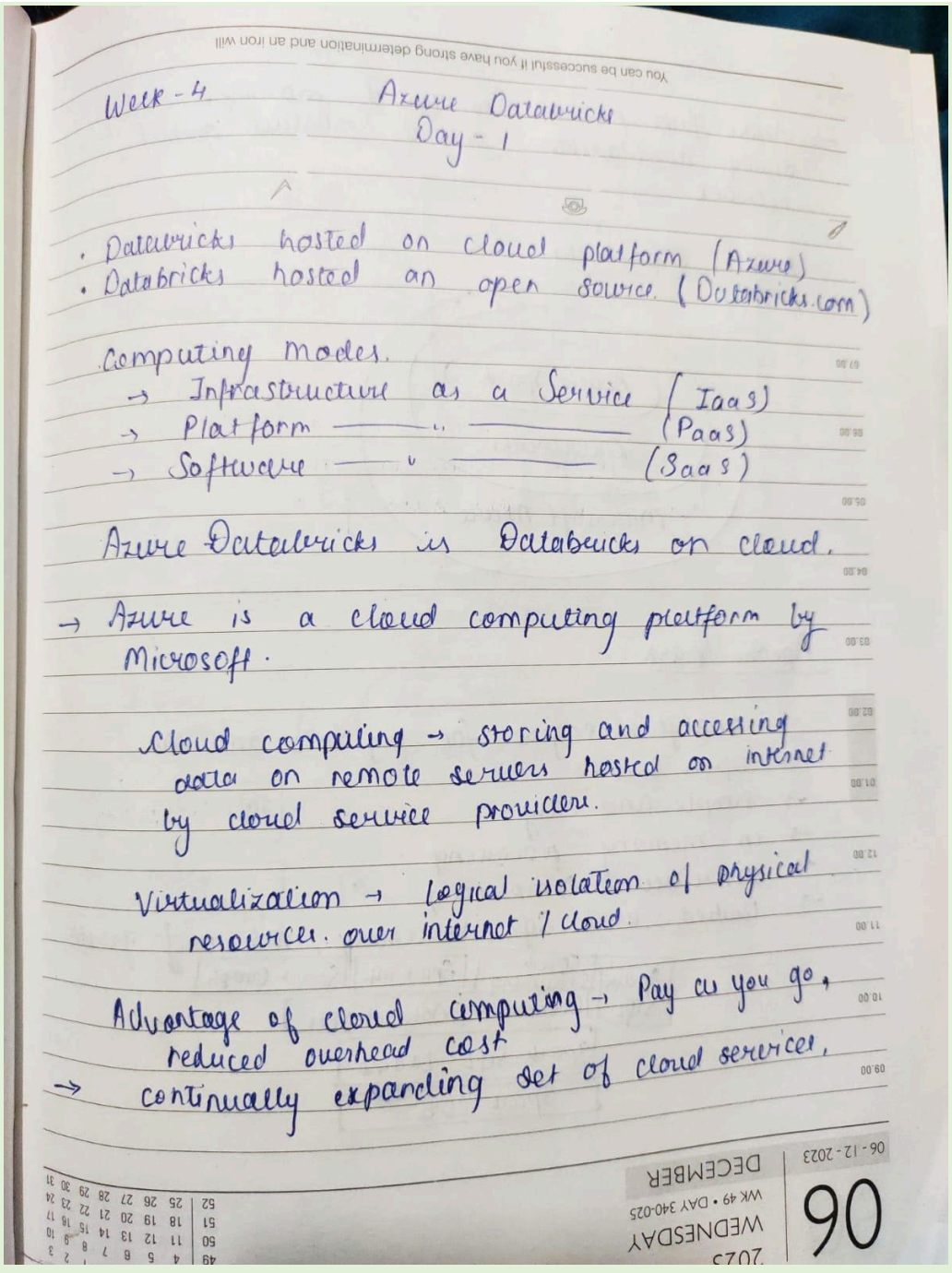
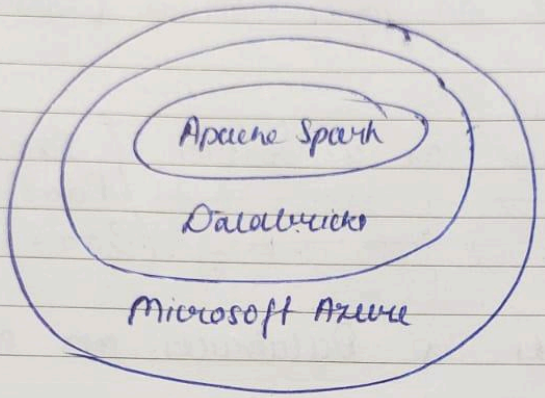
Azure Databricks Assignment - 1
Mitushi Vishwakarma

- **Introduction to databricks**
- **Notes :**



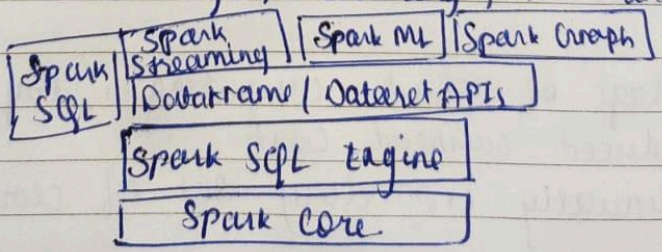
→ Azure gives freedom to build, manage and deploy applications on a massive global network

Azure Databricks



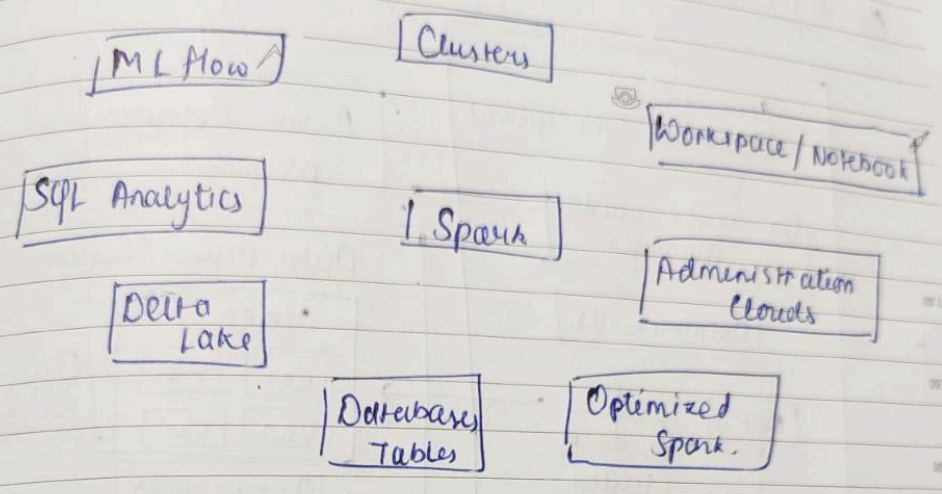
Apache Spark :-

→ analytical engine for big data and ML
→ Open source
→ simple and easy
→ in-memory processing
→ distributed computing
→ unified with SQL, streaming, ML and graphx

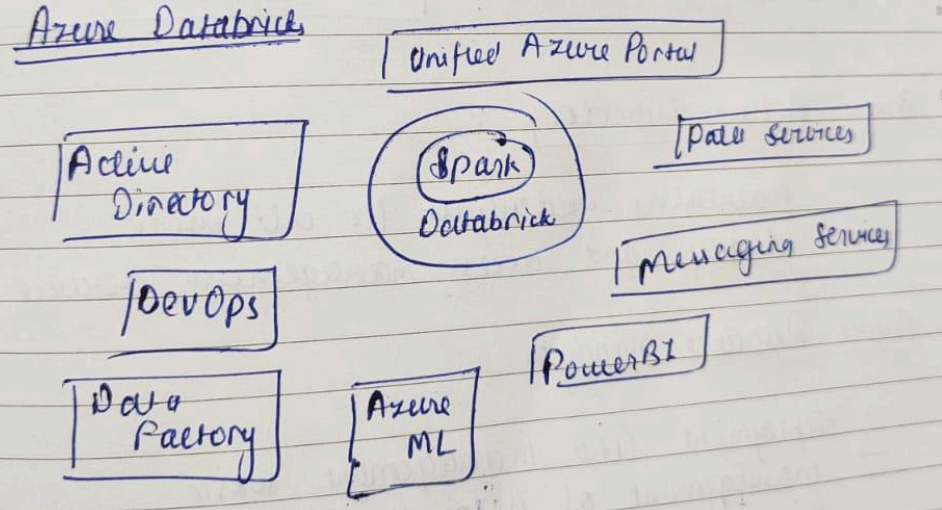


Strengthening our identity is one way of reinforcing people's confidence

Databricks.



Azure Databricks



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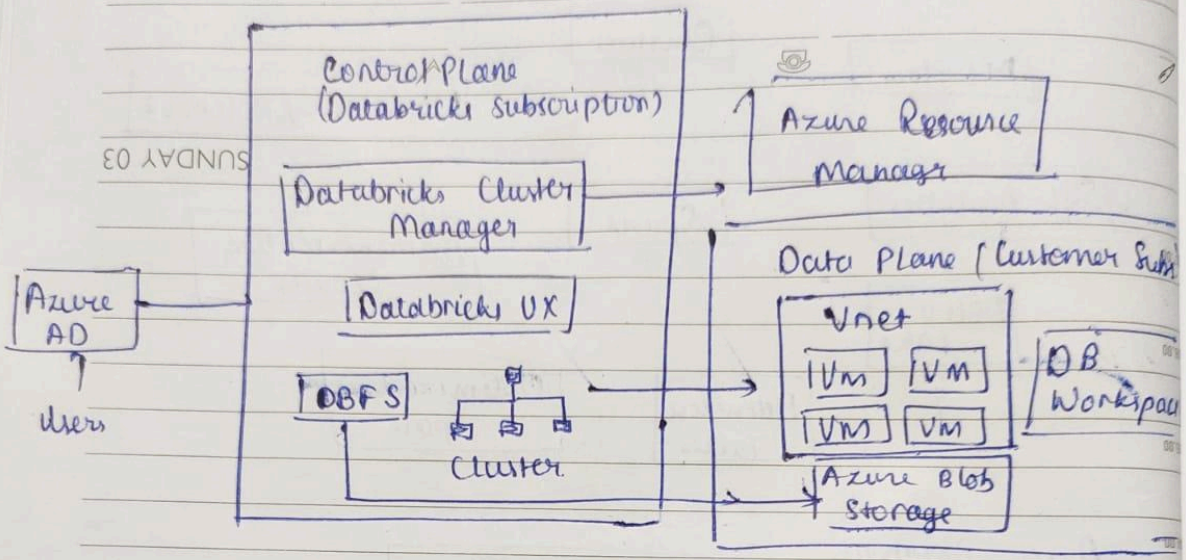
AD → Active Directory

Individual commitment to a group effort is what makes a company work

Architecture



Azure Active Directory :-

→ Maintains credentials for all users
→ Identity and access management service

Azure Resource Manager :-

→ deployment and management service
→ management of resources in Azure account

Azure Blob Storage :-

→ Scalable storage in cloud.

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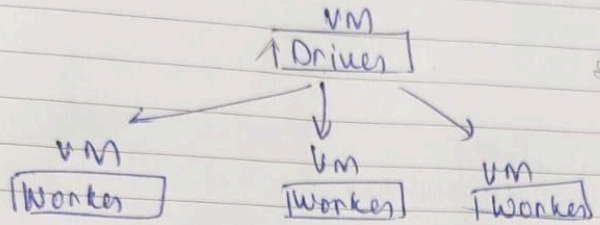
Any one can be an ACE. Attitude + Commitment = Excellence

Databricks Clusters



Driver sends data to Workers.
We run query on databricks notebook it connect to driver then to workers and gives o/p.

Cluster Types

All purpose

Created manually
expensive
shared
persistent
for interactive workloads

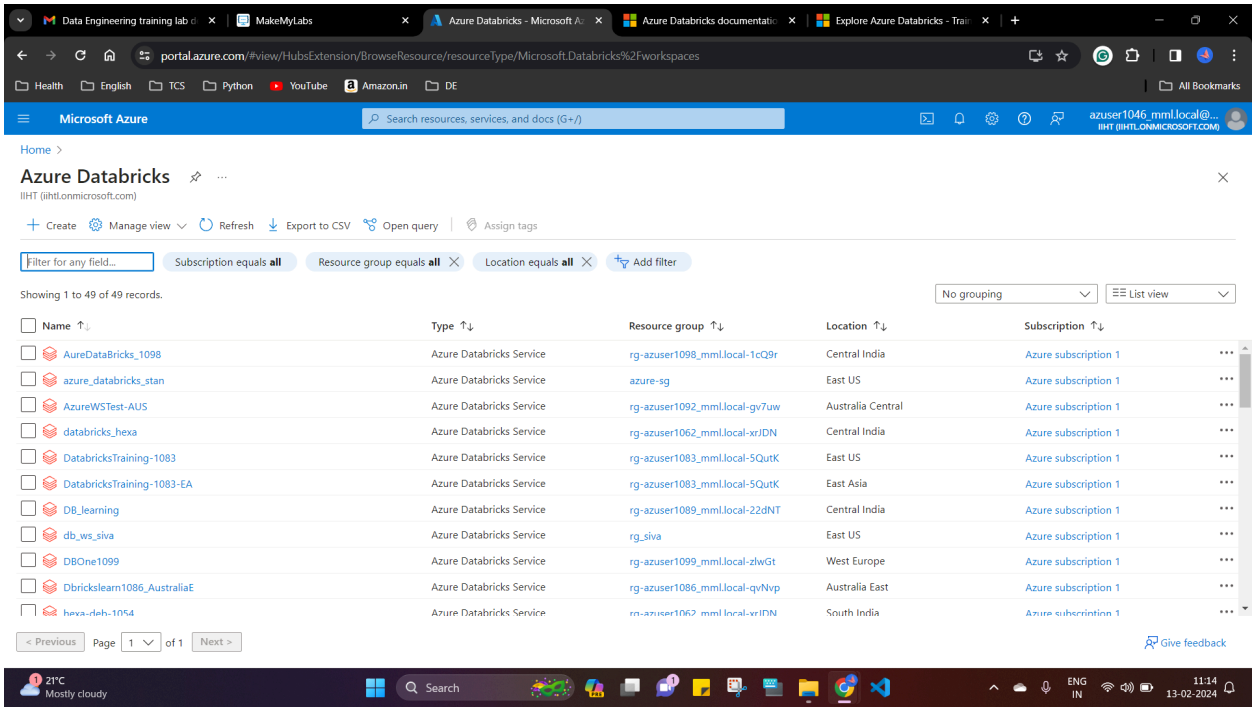
Job Cluster

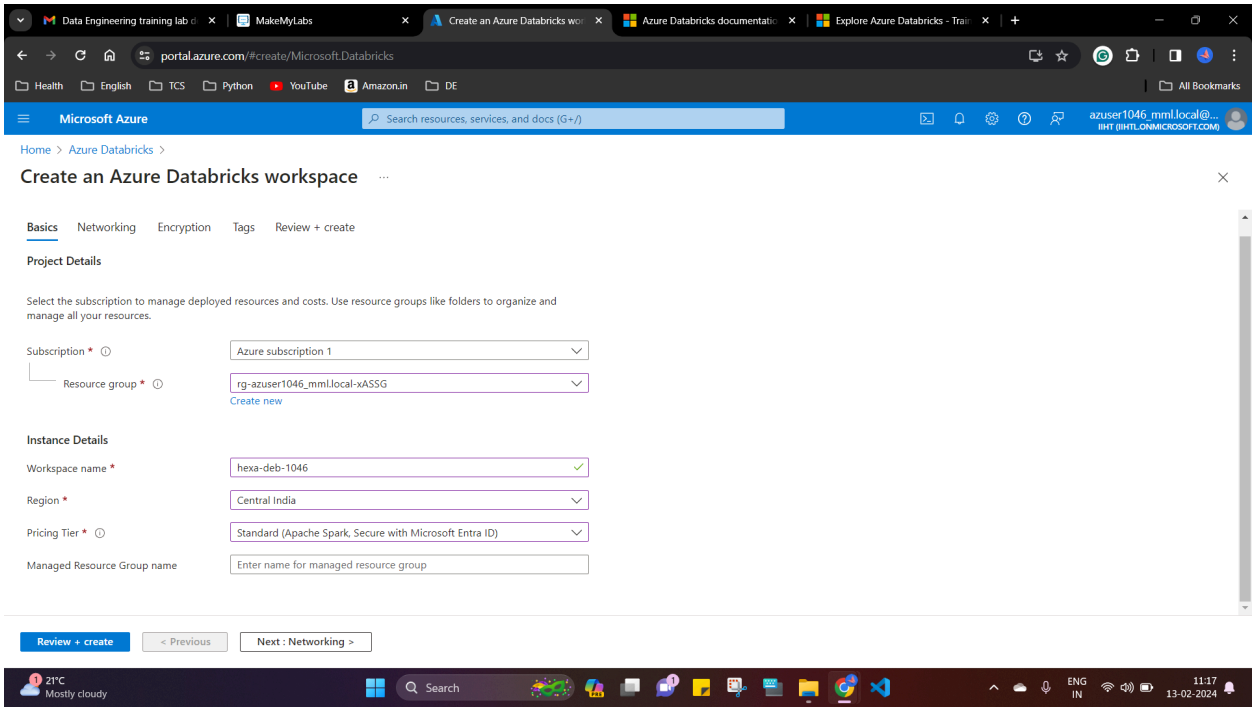
created by job
cheaper.
isolated for job
terminate at end of job
for automation

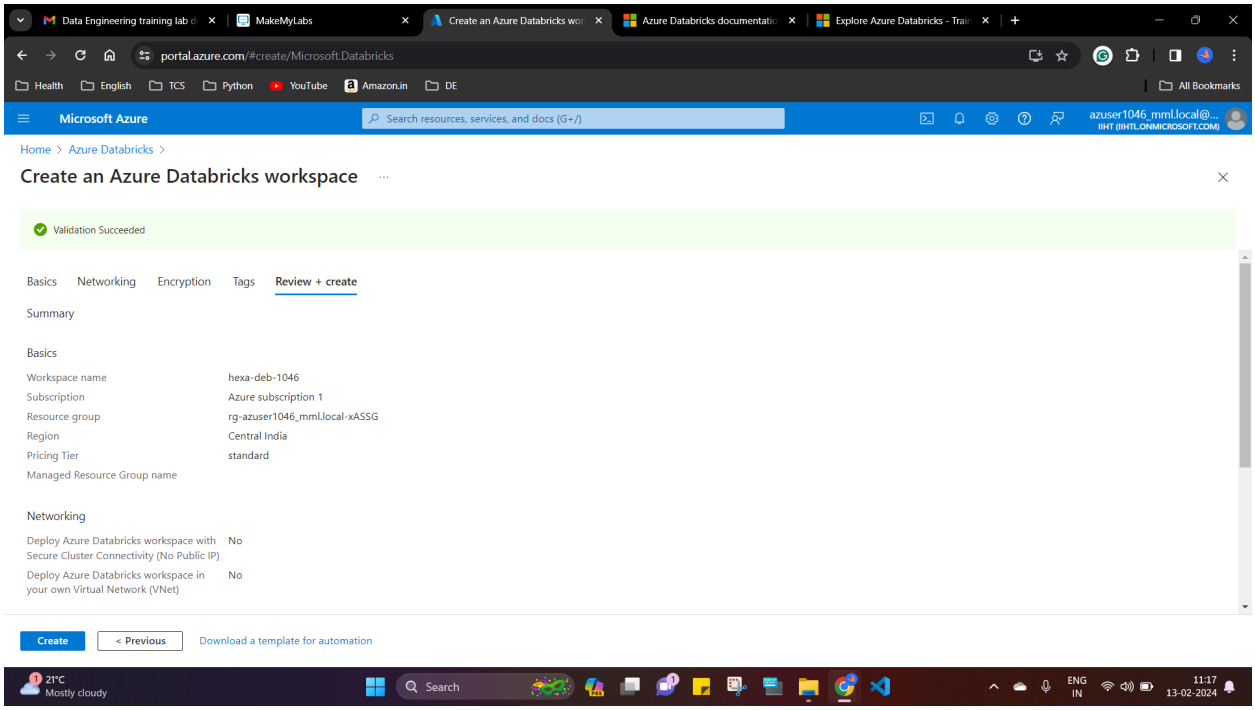
Configuration of cluster decides cost.

Single / Multi Node. → multiple virtual machines
↓
less cost
single VMs

- # Setting up Azure Databricks Workspace



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Create an Azure Databricks workspace
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Summary
Basics
Workspace name hexa-deb-1046
Subscription Azure subscription 1
Resource group rg-azuser1046_mml.local-xASSG
Region Central India
Pricing Tier standard
Managed Resource Group name
Networking
Deploy Azure Databricks workspace with Secure Cluster Connectivity (No Public IP) No
Deploy Azure Databricks workspace in your own Virtual Network (VNet) No
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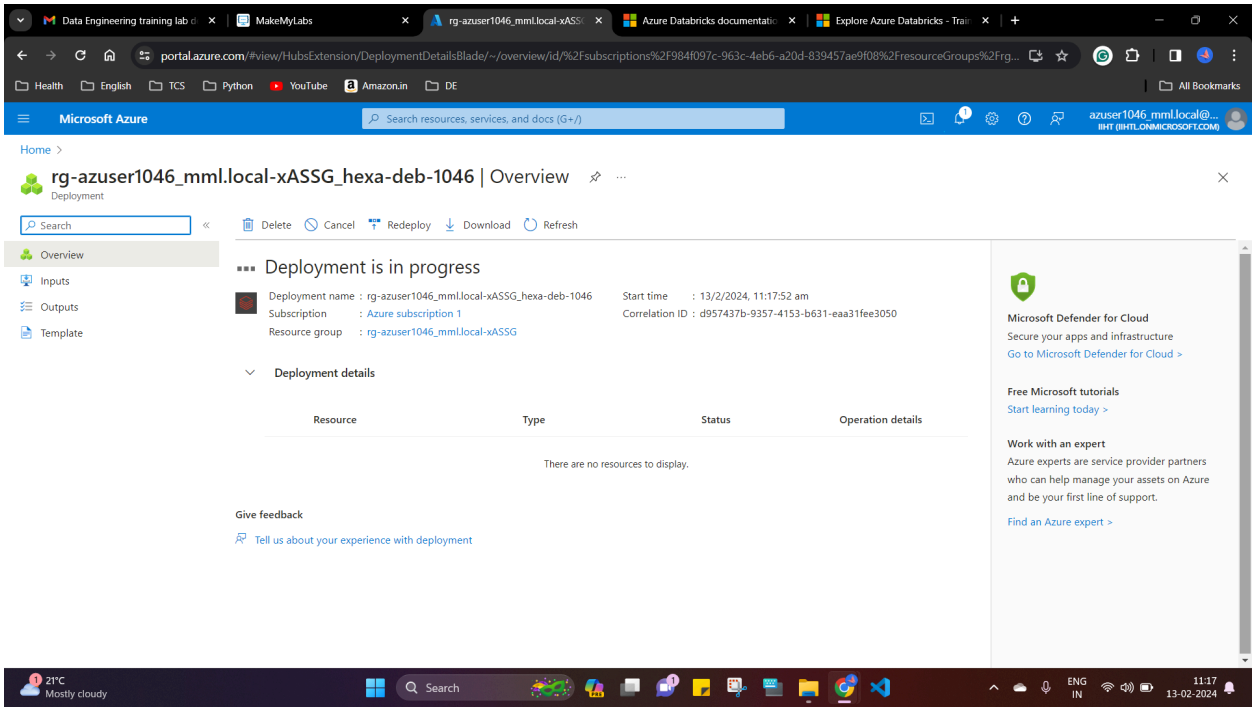
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Deployment is in progress
Deployment name : rg-azuser1046_mml.local-xASSG_hexa-deb-1046
Subscription : Azure subscription 1
Resource group : rg-azuser1046_mml.local-xASSG
Start time : 13/2/2024, 11:17:52 am
Correlation ID : d957437b-9357-4153-b631-eaa31fee3050
Deployment details
Resource
Type
Status
Operation details
There are no resources to display.
Give feedback
Tell us about your experience with deployment
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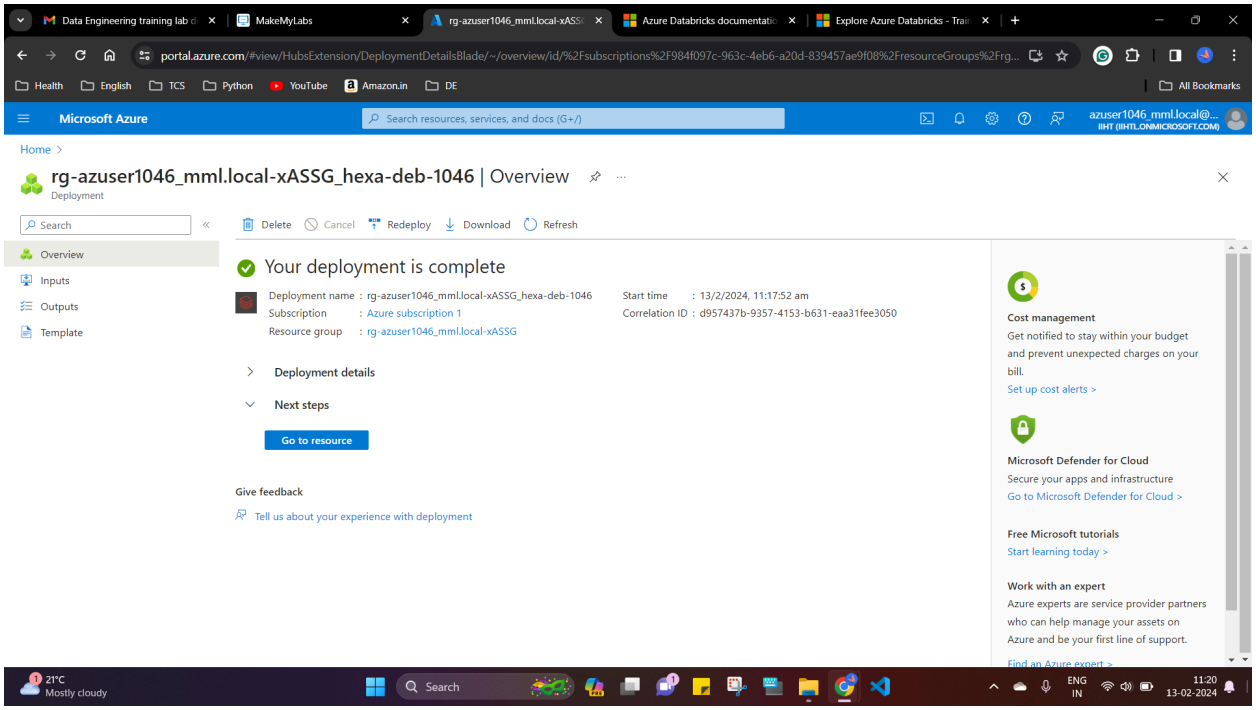
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Outputs
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Your deployment is complete
Deployment name : rg-azuser1046_mml.local-xASSG_hexa-deb-1046
Subscription : Azure subscription 1
Resource group : rg-azuser1046_mml.local-xASSG
Start time : 13/2/2024, 11:17:52 am
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Deployment details
Next steps
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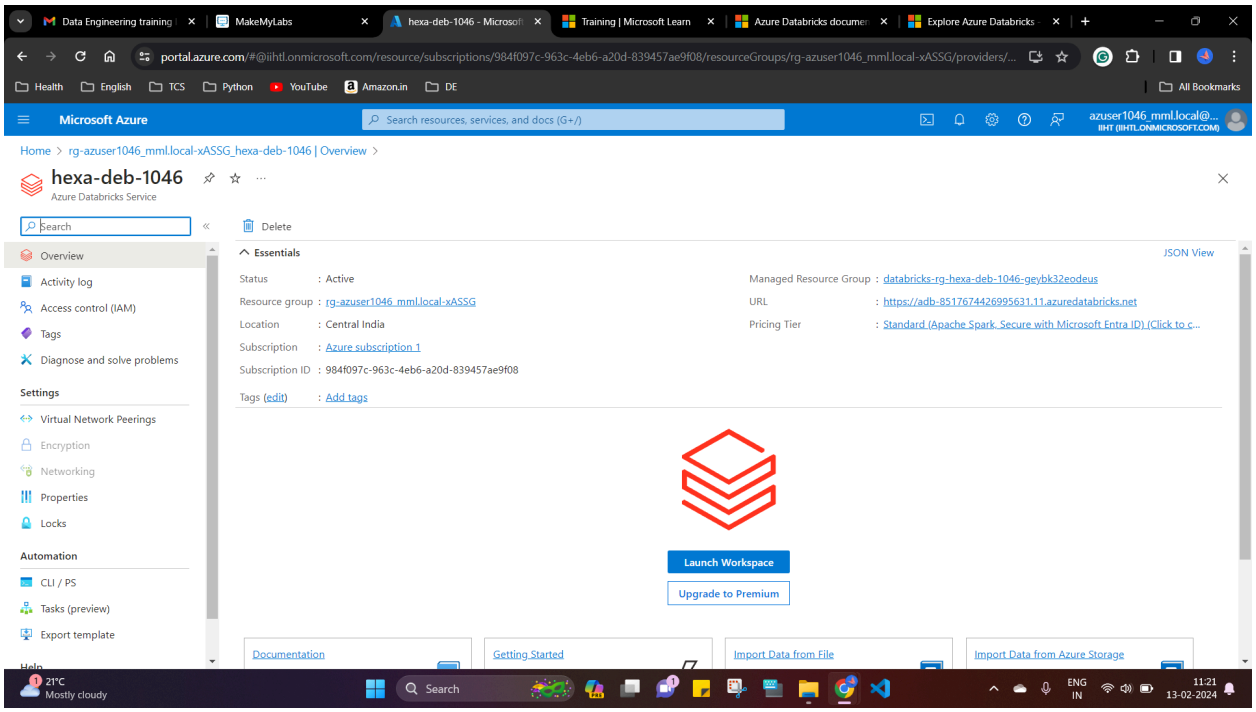
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Diagnose and solve problems
Settings
Virtual Network Peerings
Encryption
Networking
Properties
Locks
Automation
CLI / PS
Tasks (preview)
Export template
Delete
Essentials
JSON View
Status : Active
Resource group : rg-azuser1046_mml.local-xASSG
Location : Central India
Subscription : Azure subscription 1
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Tags (edit) : Add tags
Managed Resource Group : databricks-rg-hexa-deb-1046-geybk32eodeus
URL : https://adb-8517674426995631.11.azuredatabricks.net
Pricing Tier : Standard (Apache Spark, Secure with Microsoft Entra ID) (Click to c...
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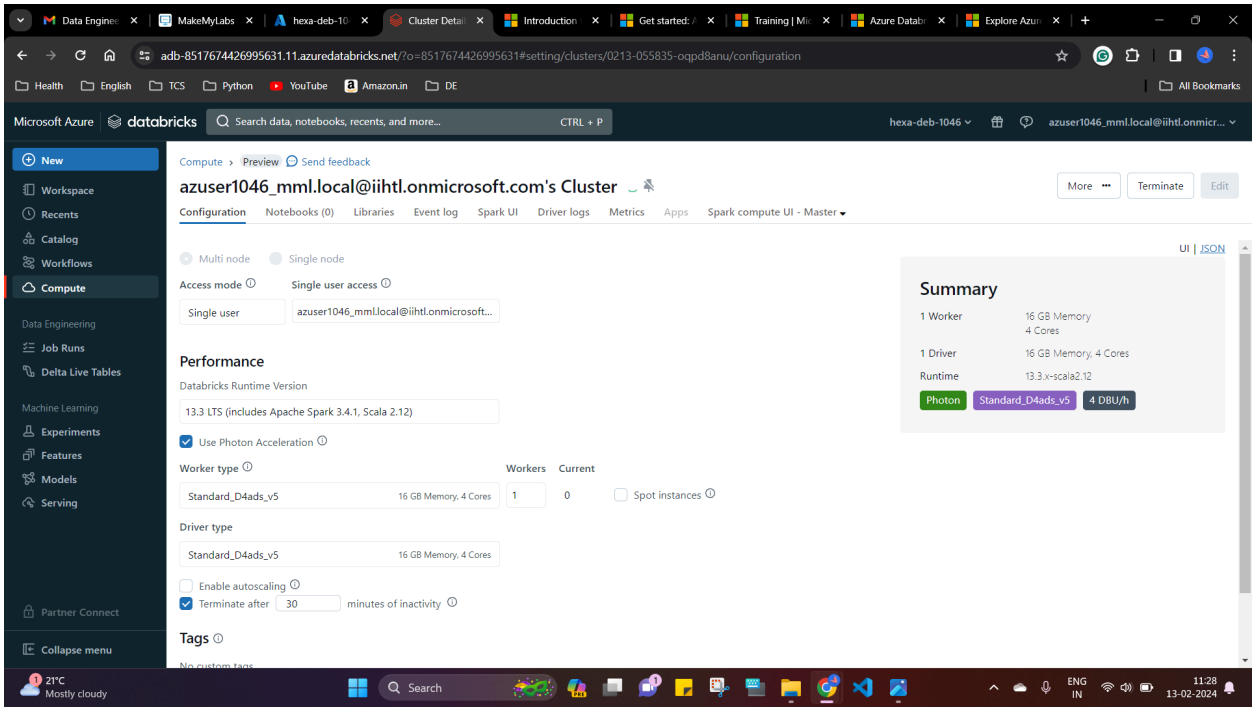
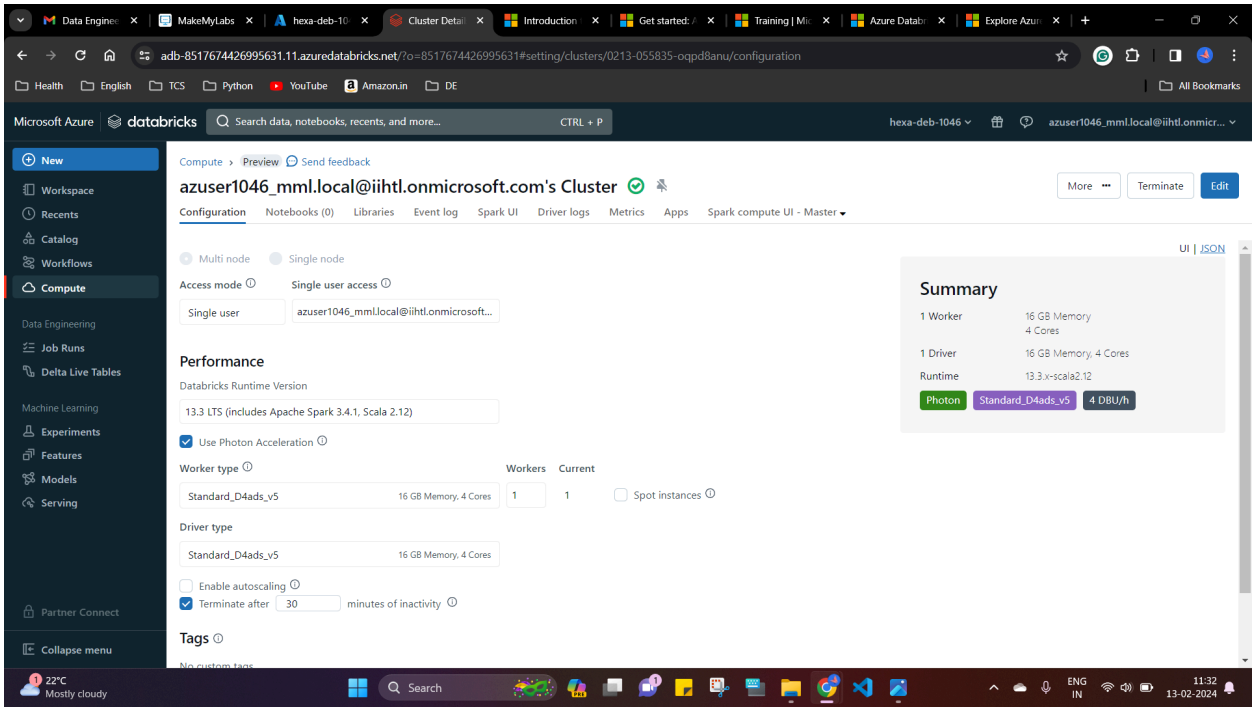
Upgrade to Premium
Documentation
Getting Started
Import Data from File
Import Data from Azure Storage

- **Setting up Azure Databricks workspace and configuring clusters**





- **Creating a Databricks notebook and Implementing Databricks for real-time data processing**