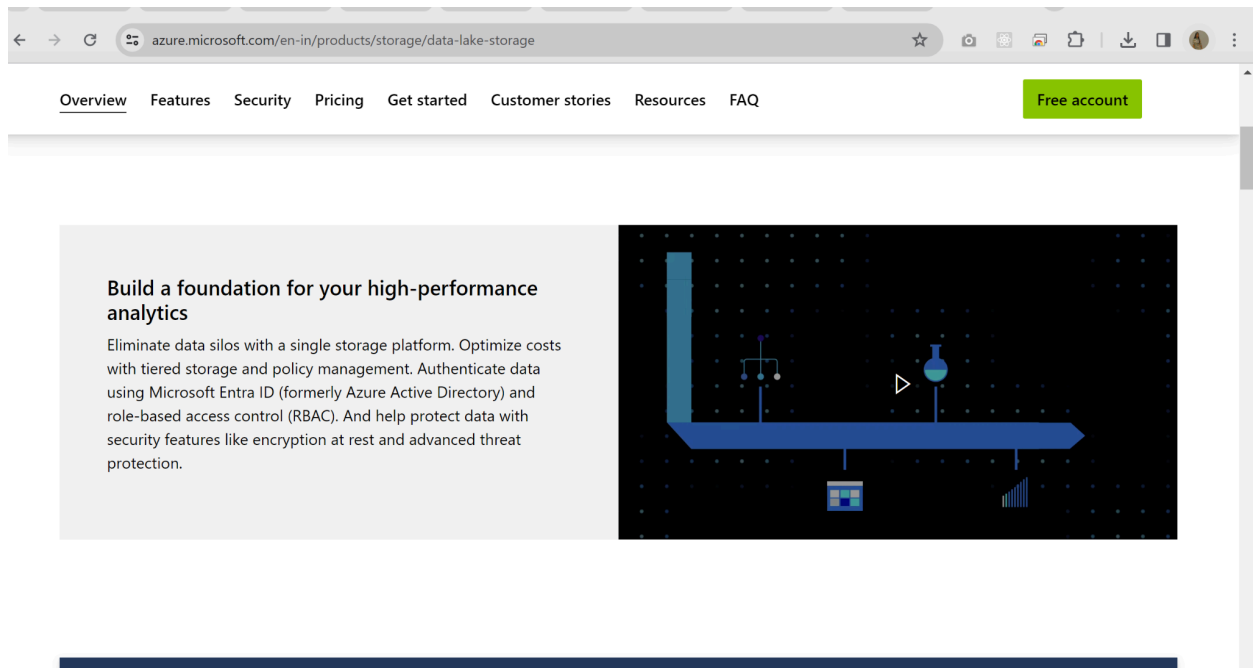


Asmita Porwal
Batch-1
Day-20
16/02/2024
Data engineering

Assignment-20

Azure Data Lake Storage (ADLS):

Azure Data Lake Storage (ADLS) is a highly scalable and secure cloud-based storage solution optimized for big data analytics. It's part of the Azure Data Lake suite, designed to handle large volumes of structured and unstructured data for analytics, machine learning, and other data-intensive workloads.



Hand written notes:

◆ NOTES

Date: 16/2/24

ADLS :- Azure Data Lake Storage

Service Name :- Azure data lake storage gen-1

If you want to store data without performing analysis on the data, set the hierarchical namespace option as disabled to set up storage account as an azure blob storage account. You can blob storage to archive rarely used data or to store website assets such as in & media

If you are performing analytics on data

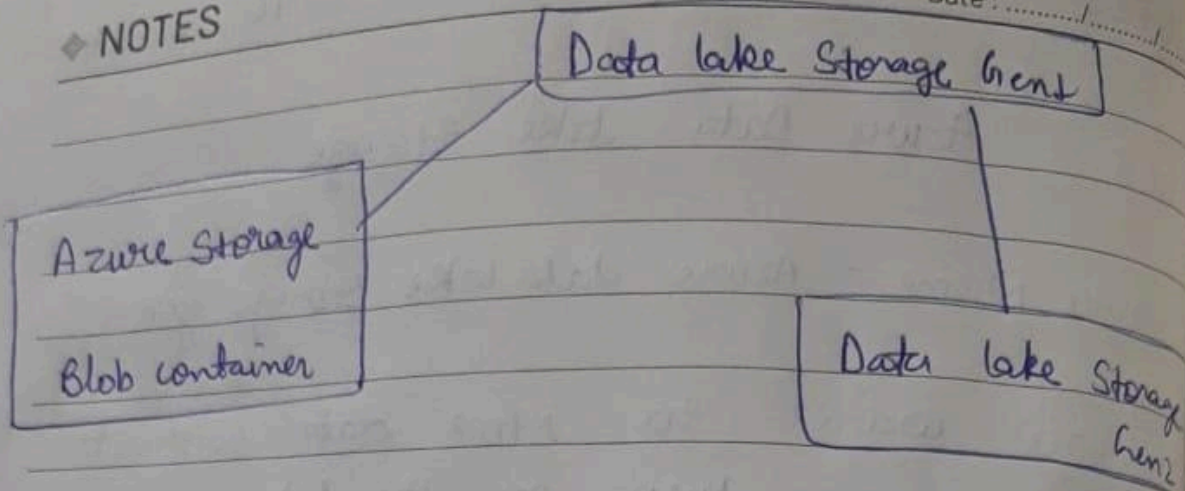
Enabled Because Azure data lake storage gen2 integrated into Azure data storage platform.

Stages for processing

- An enterprise datawarehouse
- Advanced structured data
- A real time analytical solution

◆ NOTES

Date :



ADLS - Azure data lake storage Gen1
Service Name in Azure

Creating data lake on Azure Storage :

Home >

storage1060

Storage account

Search

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

Data storage

Containers

File shares

Queues

Tables

Security + networking

Networking

Subscription (move)

Azure subscription 1

Subscription ID

984f097c-963c-4eb6-a20d-839457ae9f08

Disk state

Primary: Available, Secondary: Available

Tags (edit)

Add tags

Provisioning state

Succeeded

Created

2/16/2024, 2:09:03 PM

Properties

Monitoring

Capabilities (5)

Recommendations (0)

Tutorials

Tools + SDKs

Data Lake Storage

Hierarchical namespace

Enabled

Default access tier

Hot

Blob anonymous access

Disabled

Blob soft delete

Enabled (7 days)

Container soft delete

Enabled (7 days)

Versioning

Disabled

Change feed

Disabled

NFS v3

Disabled

Security

Require secure transfer for REST API operations

Enabled

Storage account key access

Enabled

Minimum TLS version

Version 1.2

Infrastructure encryption

Disabled

Networking

Allow access from

All networks

Home >

storage1060

Containers

Search

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Storage browser

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Containers

File shares

Queues

Tables

Security + networking

Networking

+ Container

Change access level

Restore containers

Refresh

Delete

Give feedback

Search containers by prefix

Show deleted containers

Name	Last modified	Anonymous access level	Lease state
\$logs	16/02/2024, 14:09:54	Private	Available
datalakecontainer	16/02/2024, 20:17:47	Private	Available

Local:

The screenshot displays the Microsoft Azure Storage Explorer application. The interface is divided into several sections:

- EXPLORER (Left):** Shows a tree view of storage resources. Under 'Emulator & Attached', 'Storage Accounts' is expanded, showing 'storage1060 (SAS, ADLS Gen2)'. Under 'Blob Containers', 'datalakecontainer' is selected.
- Toolbar (Top):** Includes icons for Upload, Download, Open, Preview, New Folder, Select All, Copy, Paste, Clone, and More.
- File List (Center):** Displays a table of blobs. The table has columns: Name, Access Tier, and Access Tier Last Modified. One item is listed: 'test.json' with an 'Access Tier' of 'Hot (inferred)'.
- Properties (Bottom Left):** Shows details for the selected 'datalakecontainer'.

Property	Value
URL	https://storage1060.blob.core.windows.net/datalakecontainer
Custom Domain	
Type	Blob Container (ADLS Gen2)
HNS Enabled	true
DFS Endpoint	https://storage1060.dfs.core.windows.net
Lease State	available
Lease Status	unlocked
Public Read Access	off
- Activities (Bottom Right):** Shows a message: 'Successfully added new connection.' with a green checkmark icon.