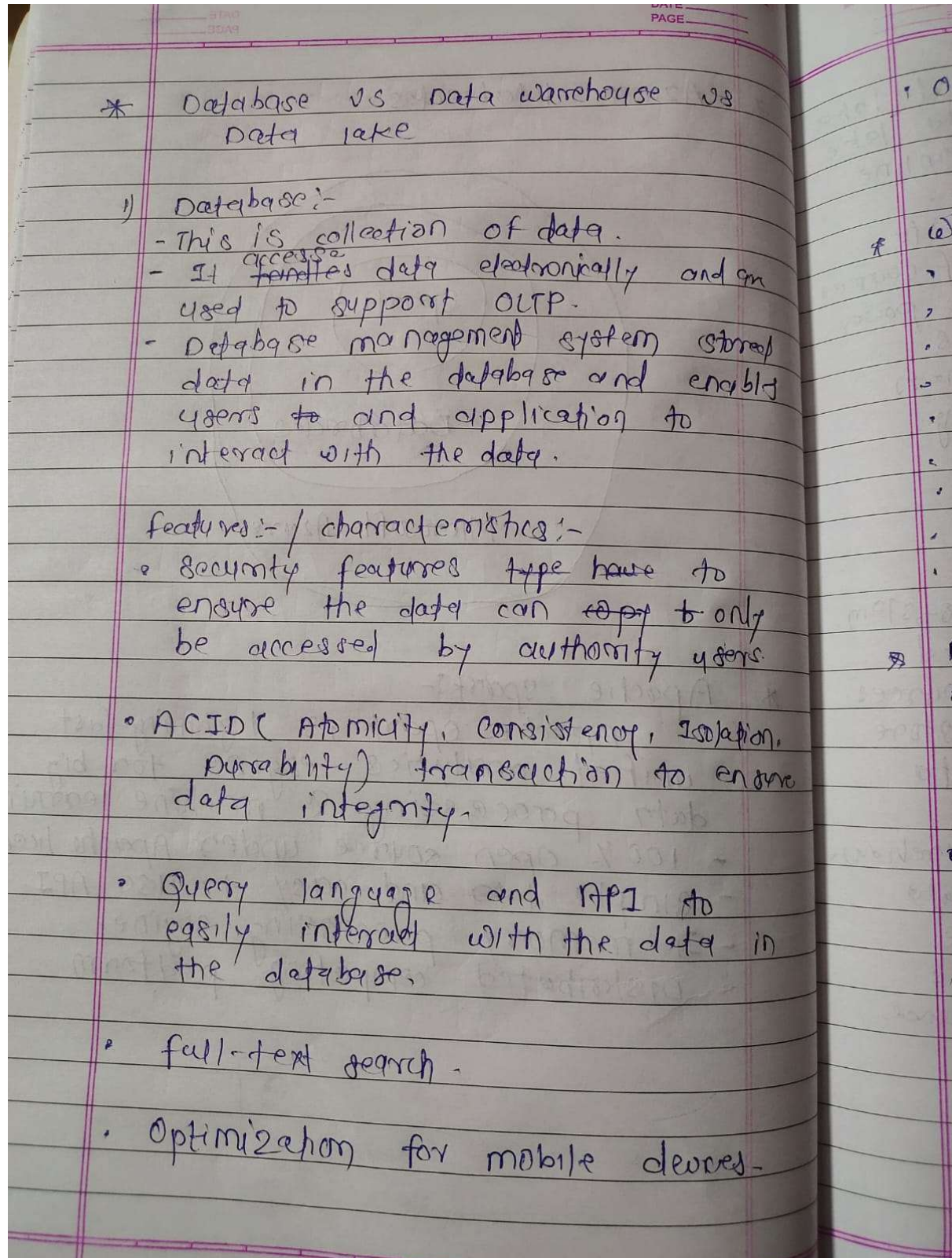


Name: Krushnakumar Patle

Email: [krishnapatle128@gmail.com](mailto:krishnapatle128@gmail.com)

Batch: Data Engineering Batch-1



DATE \_\_\_\_\_  
PAGE \_\_\_\_\_

DATE \_\_\_\_\_  
PAGE \_\_\_\_\_

Vidyalekhan

On-premise, private cloud, public cloud, hybrid cloud, and multi-cloud hosting option.

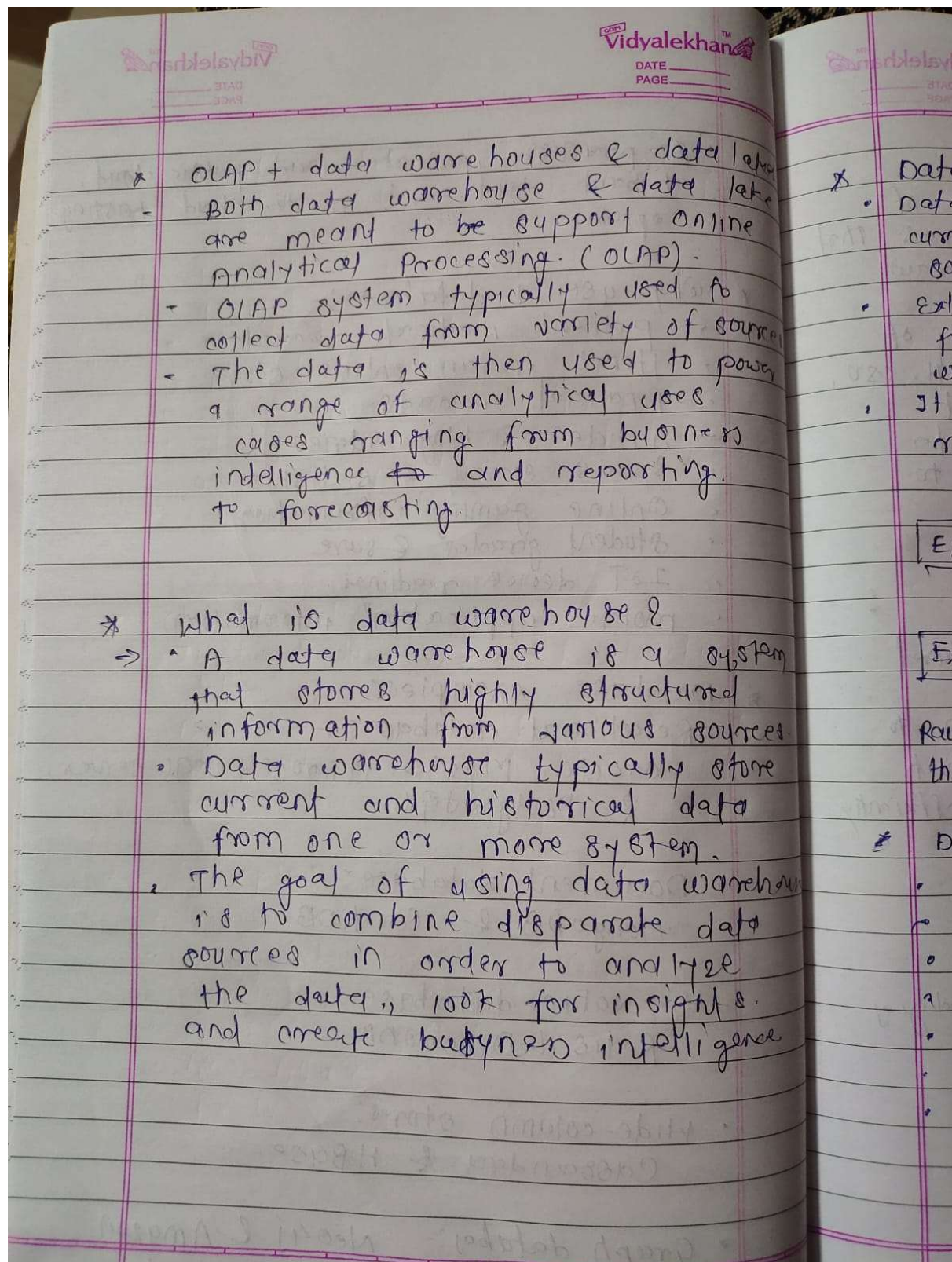
Why use a database:-

- patient medical records.
- Items in an online store
- financial records.
- Articles & blog entries
- Sports scores & statistics
- Online gaming information
- student grades & score
- IoT device readings.
- mobile application information

Database examples:-

- Relational databases:-  
Oracle, MySQL, Microsoft SQL server, & PostgreSQL.
- Document database:-  
MongoDB & CouchDB
- Key-value database:-  
Redis & DynamoDB.
- Wide-column stores:-  
Cassandra & HBase
- Graph databas:- Neo4j & Amazon Neptune





Data warehouse characteristics:-  
 • Data warehouse store large amount of current & historical data from various sources.  
 • Extract, transform, load process move data from its original source to the data warehouse.  
 • It typically have a pre-defined & fixed relational schema.

Extract, transform & load

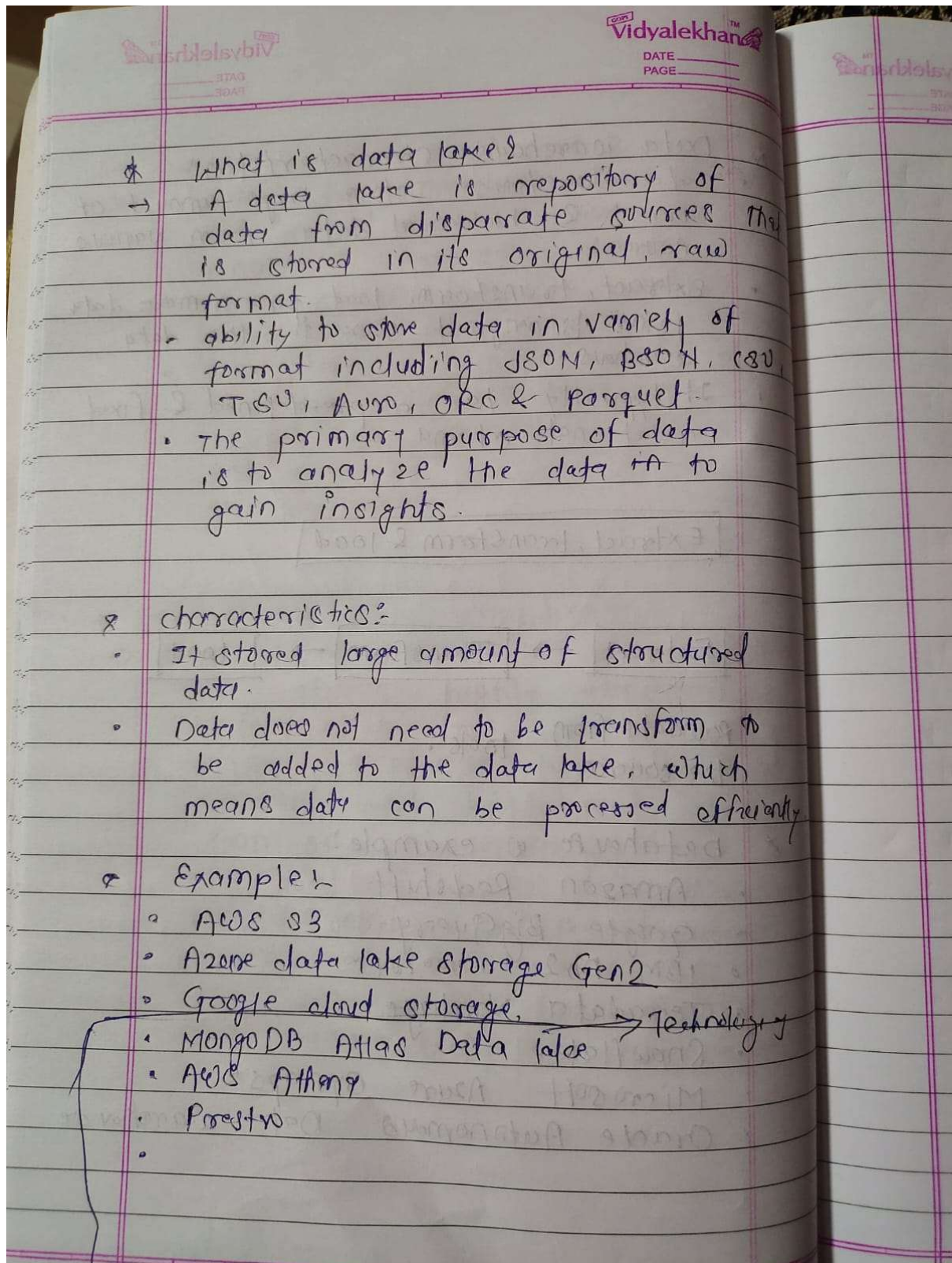
Extract → Transform → Load

Raw data from the source tools:-

Data warehouse example:-

- Amazon Redshift
- Google BigQuery
- IBM Db2 warehouse
- Teradata Vantage
- Snowflake
- Microsoft Azure Synapse
- Oracle Autonomous Data warehouse





Create Azure Storage Account :

Day 19 Assessment

Home >

hexdeb1072\_1708013575704 | Overview

Deployment

Search

DeleteCancelRedeployDownloadRefresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: hexdeb1072\_1708013575704

Subscription: Azure subscription 1

Resource group: rg-azuser1072\_mm1.local-T96KB

Start time: 2/15/2024, 9:42:58 PM

Correlation ID: 527c6024-04a8-4e89-9b1e-535ac3ee6888

Deployment details

| Resource    | Type | Status | Operation details |
|-------------|------|--------|-------------------|
| No results. |      |        |                   |

Give feedback

Tell us about your experience with deployment

Microsoft Defender for Cloud

Secure your apps and infrastructure

Go to Microsoft Defender for Cloud >

Free Microsoft tutorials

Start learning today >

Work with an expert

Azure experts are service provider partners who can help manage your assets on Azure and be your first line of support.

Find an Azure expert >

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Home > hexdeb1072\_1708013575704 | Overview > hexdeb1072 | Containers >

hexawarestorage

Container

Search

UploadChange access levelRefreshDeleteChange tierAcquire leaseBreak leaseView snapshotsCreate snapshotGive feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

Authentication method: Access key (Switch to Microsoft Entra user account)

Location: hexawarestorage

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

| Name       | Modified | Access tier | Archive status | Blob type | Size | Lease state |
|------------|----------|-------------|----------------|-----------|------|-------------|
| No results |          |             |                |           |      |             |

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## Day 19 Assessment

Home > hexdeb1072\_1708013575704 | Overview > hexdeb1072

### hexdeb1072 | Shared access signature

Storage account

Search resources, services, and docs (G+)

Give feedback

A shared access signature (SAS) is a URI that grants restricted access rights to Azure Storage resources. You can provide a shared access signature to clients who should not be trusted with your storage account key but whom you wish to delegate access to certain storage account resources. By distributing a shared access signature URI to these clients, you grant them access to a resource for a specified period of time.

An account-level SAS can delegate access to multiple storage services (i.e. blob, file, queue, table). Note that stored access policies are currently not supported for an account-level SAS.

[Learn more about creating an account SAS](#)

**Allowed services**

- ☒ Blob ☒ File ☒ Queue ☒ Table

**Allowed resource types**

- ☒ Service ☒ Container ☒ Object

**Allowed permissions**

- ☒ Read ☒ Write ☒ Delete ☒ List ☒ Add ☒ Create ☒ Update ☒ Process ☒ Immutable storage ☒ Permanent delete

**Blob versioning permissions**

- ☒ Enables deletion of versions

**Allowed blob index permissions**

- ☒ Read/Write ☒ Filter

**Start and expiry date/time**

Start: 02/15/2024 9:55:18 PM

End: 02/16/2024

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UTC+05:30 Chennai, Kolkata, Mumbai, New Delhi

---

Home > hexdeb1072\_1708013575704 | Overview > hexdeb1072

### hexdeb1072 | Containers

Storage account

Search resources, services, and docs (G+)

Successfully created storage container 'hexawarestorage'.

Search containers by prefix

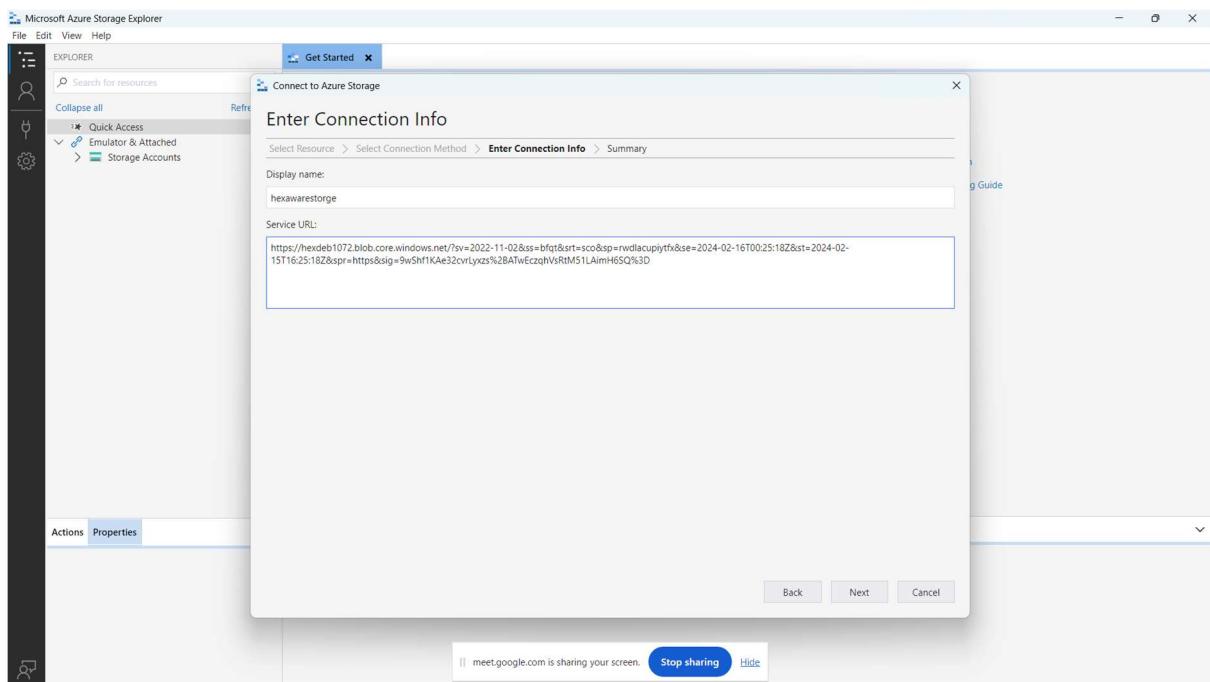
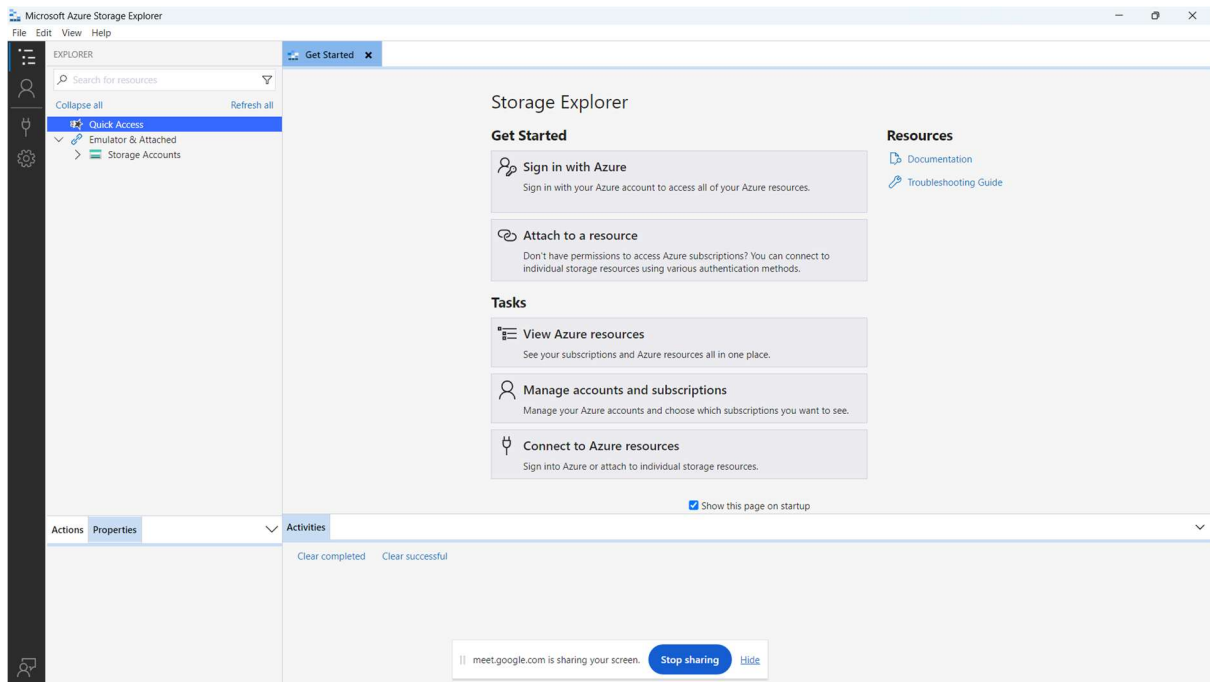
Show deleted containers

| Name                                     | Last modified         | Anonymous access level | Lease state |
|--|-----------------------|------------------------|-------------|
| <input type="checkbox"/> slogs           | 2/15/2024, 9:43:31 PM | Private                | Available   |
| <input type="checkbox"/> hexawarestorage | 2/15/2024, 9:44:52 PM | Private                | Available   |

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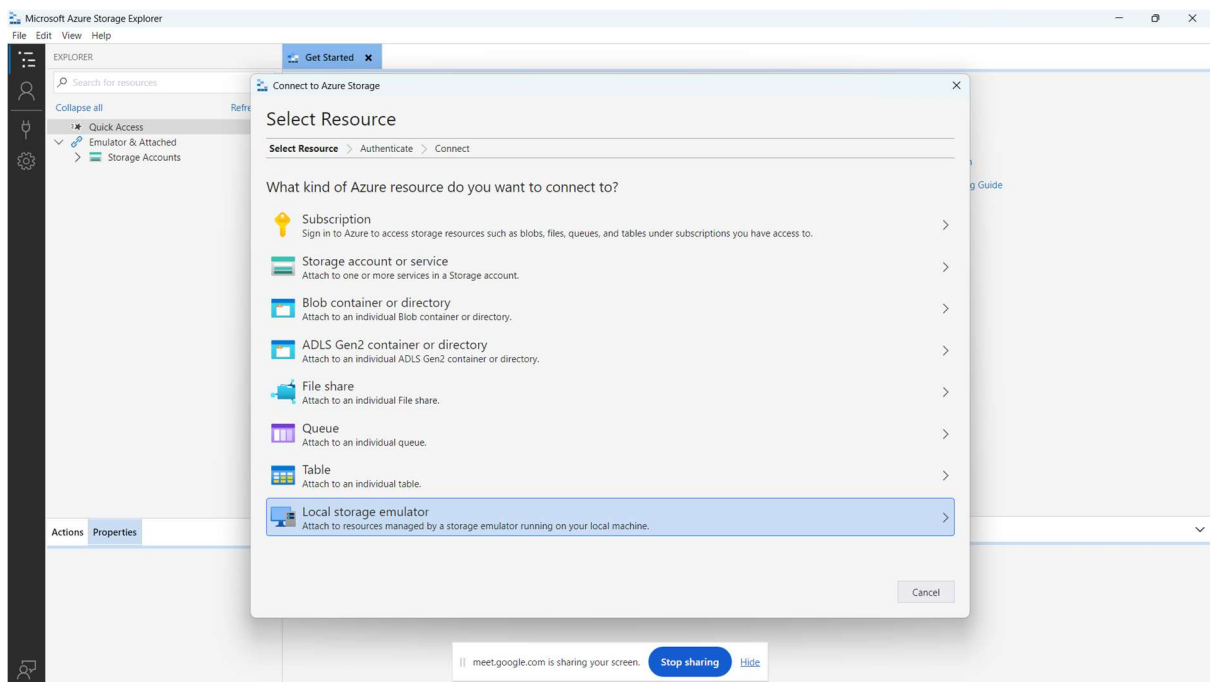
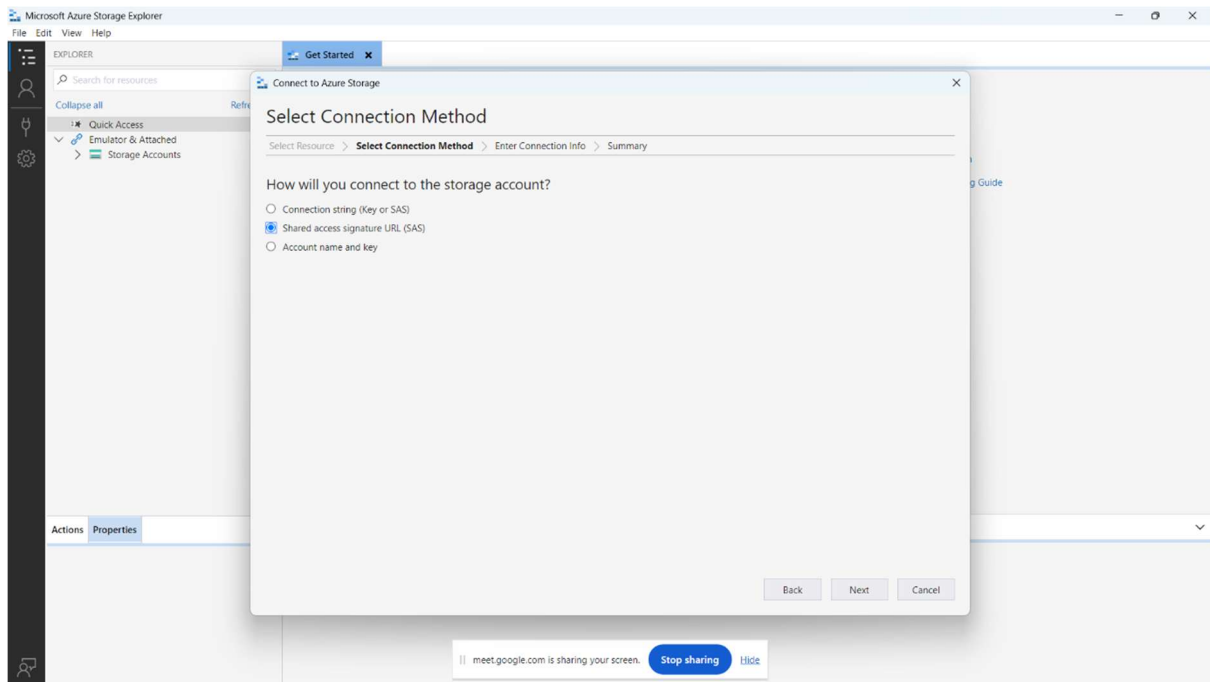
Download Azure storage explorer to access data

## Day 19 Assessment





## Day 19 Assessment



Day 19 Assessment

Microsoft Azure Storage Explorer

File Edit View Help

EXPLORER

Search for resources

Collapse all

Refresh all

Quick Access

Emulator & Attached

Storage Accounts

Emulator - Default Ports (Key)

hexawarestorage (SAS)

Blob Containers

hexawarestorage

File Shares

Queues

Tables

Upload

Download

Open

Preview

New Folder

Select All

Copy

Paste

Clone

Properties

Delete

Undo

Manage History

Folder Statistics

Refresh

Active blobs (default)

hexawarestorage

| Name                | Access Tier    | Access Tier Last Modified | Last Modified    | Blob Type  | Content Ty |
|---------------------|----------------|---------------------------|------------------|------------|------------|
| student-dataset.csv | Hot (inferred) |                           | 15-02-2024 21:46 | Block Blob | text/csv   |

Showing 1 to 1 of 1 cached items

Actions Properties

URL

Custom Domain

Type

HNS Enabled

Lease State

Lease Status

Public Read Access

Last Modified

https://hexdeb1072.blob.core.windows.net

Blob Container

false

available

unlocked

off

15 February 2024 21:44

Activities

Clear completed

Clear successful

Successfully added new connection.

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portal.azure.com

Search resources, services, and docs (G+)

azuser1072\_mml.local@... (BHT10MLONMICROSOFT.COM)

Home > hexdeb1072\_1708013575704 | Overview > hexdeb1072 | Containers >

hexawarestorage

Container

Search

Upload

Change access level

Refresh

Delete

Change tier

Acquire lease

Break lease

View snapshots

Create snapshot

Give feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

Authentication method: Access key (Switch to Microsoft Entra user account)

Location: hexawarestorage

Search blobs by prefix (case-sensitive)

Show deleted blobs

Name

Modified

Access tier

Archive status

Blob type

Size

Lease state

student-dataset.csv

2/15/2024, 9:46:05 PM

Hot (Inferred)

Block blob

26.79 KiB

Available

\*\*\*

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Day 19 Assessment

Microsoft Azure

Search resources, services, and docs (G+)

azuser1072\_mml.local@...  
IHFT (IHFT@MICHOSOFT.COM)

Home > hexdeb1072\_1708013575704 | Overview > hexdeb1072 | Containers >

hexawarestorage

Container

Search

Upload Change access level Refresh Delete Change tier Acquire lease Break lease View snapshots Create snapshot Give feedback

Overview

Diagnose and solve problems

Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

Authentication method: Access key (Switch to Microsoft Entra user account)

Location: hexawarestorage

Search blobs by prefix (case-sensitive)

Show deleted blobs

Add filter

| Name   | Modified              | Access tier    | Archive status | Blob type  | Size      | Lease state |     |
|--|-----------------------|----------------|----------------|------------|-----------|-------------|-----|
| <input type="checkbox"/> Marks_data.csv      | 2/15/2024, 9:59:46 PM | Hot (Inferred) |                | Block blob | 95 B      | Available   | *** |
| <input type="checkbox"/> student-dataset.csv | 2/15/2024, 9:46:05 PM | Hot (Inferred) |                | Block blob | 26.79 KiB | Available   | *** |

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Microsoft Azure Storage Explorer

File Edit View Help

EXPLORER

Search for resources

Collapse all Refresh all

Quick Access

Emulator & Attached

Storage Accounts

Attached Containers

Emulator - Default Ports (Key)

hexawarestorage (SAS)

Blob Containers

Slogs

hexawarestorage

File Shares

Queues

Tables

hexawarestorage

Get Started

Upload Download Open Preview New Folder Select All Copy Paste Clone Properties Delete Undo Manage History Folder Statistics Refresh

Active blobs (default) hexawarestorage

| Name   | Access Tier    | Access Tier Last Modified | Last Modified    | Blob Type  | Content Ty   |
|--|----------------|---------------------------|------------------|------------|--------------|
| <input type="checkbox"/> Marks_data.csv      | Hot (inferred) |                           | 15-02-2024 21:59 | Block Blob | application/ |
| <input type="checkbox"/> student-dataset.csv | Hot (inferred) |                           | 15-02-2024 21:46 | Block Blob | text/csv     |

Showing 1 to 2 of 2 cached items

Actions Properties

URL: https://hexdeb1072.blob.core.windows.net/hexawarestorage/

Custom Domain: false

Type: Blob Container

HNS Enabled: false

Lease State: available

Lease Status: unlocked

Public Read Access: off

Last Modified: 15 February 2024 21:44

Activities

Clear completed Clear successful

Transfer of 'C:\Users\krish\Documents\Apache Pyspark\Marks\_data.csv' to 'hexawarestorage/' complete: 1 item transferred (used SAS, discovery completed)

Started at: 15-02-2024 21:59, Duration: 8 seconds

Successfully added new connection.

Copy AzCopy Command to Clipboard

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