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Data engineering - Batch 1

Date: 15-02-24

DAY 19 – Azure -Storage,container

Database

A database is used to store, search and report on structured data from a single source. They are the simplest to create and SQL can be used to query and report on the data.

Data Lakes

A data lake stores structured, semi-structured and unstructured data, supporting the ability to store raw data from all sources without the need to process or transform it at that time.
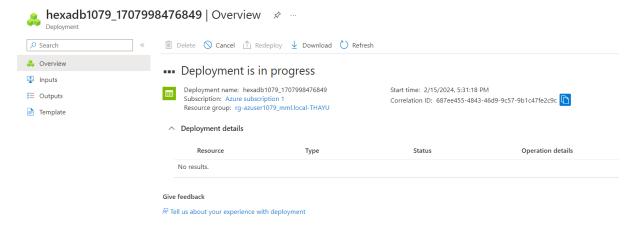
Data Warehouse

A data warehouse is used to store large amounts of structured data from multiple sources in a centralized place. Organizations invest in building data warehouses because of its ability to deliver business insights from across the company, and quickly.

Create a storage account

Create a storage account ···

Basics   Advanced   Networking   Data protection   Encryption   Tags   Review

Project details

Select the subscription in which to create the new storage account. Choose a new or existing resource group to organize and manage your storage account together with other resources.

Subscription *	Azure subscription 1
Resource group *	rg-azuser1079_mml.local-THAYU
	Create new

Instance details

Storage account name ⓘ *	sample123db
Region ⓘ *	(Asia Pacific) Central India
	Deploy to an edge zone

deployed

hexadb1079_1707998476849 | Overview 📌 ···
Deployment

🔍 Search «

- 🌀 Overview
- 📥 Inputs
- 📋 Outputs
- 📄 Template

🗑 Delete 🚫 Cancel ⬆ Redeploy ⬇ Download 🔄 Refresh

⋯ Deployment is in progress

Deployment name: hexadb1079_1707998476849   Start time: 2/15/2024, 5:31:18 PM
Subscription: Azure subscription 1   Correlation ID: 687ee455-4843-46d9-9c57-9b1c47fe2c9c 📋
Resource group: rg-azuser1079_mml.local-THAYU

⌄ **Deployment details**

Resource	Type	Status	Operation details
No results.			

Give feedback

⚟ Tell us about your experience with deployment

Created storage file

hexadeb1079 📌 ☆ ···
Storage account

🔍 Search «

- 🟰 Overview
- 📋 Activity log
- 🏷 Tags
- ✕ Diagnose and solve problems
- 👥 Access Control (IAM)
- 🗂 Data migration
- ⚡ Events
- 🗄 Storage browser
- 🚚 Storage Mover

Data storage

- 🟰 Containers
- 📁 File shares
- 🟦 Queues
- 🟦 Tables

Security + networking

⬆ Upload 🗂 Open in Explorer 🗑 Delete → Move ⌄ 🔄 Refresh 📱 Open in mobile 🖥 CLI / PS ⚟ Feedback

⌃ **Essentials**   JSC

Resource group (move)	: rg-azuser1079_mml.local-THAYU	Performance	: Standard
Location	: centralindia	Replication	: Read-access geo-redundant storage (RA-GRS)
Primary/Secondary Location	: Primary: Central India, Secondary: South India	Account kind	: StorageV2 (general purpose v2)
Subscription (move)	: Azure subscription 1	Provisioning state	: Succeeded
Subscription ID	: 984f097c-963c-4eb6-a20d-839457ae9f08	Created	: 2/15/2024, 3:08:02 PM
Disk state	: Primary: Available, Secondary: Available		

Tags (edit) : Add tags

Properties   Monitoring   Capabilities (7)   Recommendations (0)   Tutorials   Tools + SDKs

🟰 **Blob service**   🔒 **Security**

Hierarchical namespace	Disabled	Require secure transfer for REST API operations	Enabled
Default access tier	Hot	Storage account key access	Enabled
Blob anonymous access	Disabled	Minimum TLS version	Version 1.2
Blob soft delete	Enabled (7 days)	Infrastructure encryption	Disabled
Container soft delete	Enabled (7 days)		

Creating container

hexadeb1079 | Containers
Storage account

	Search	
	Overview	
	Activity log	
	Tags	
	Diagnose and solve problems	
	Access Control (IAM)	
	Data migration	
	Events	

+ Container   Change access level   Restore containers ⌄   ↻ Refresh | 🗑 Delete   Give feedback

Search containers by prefix

Name	Last modified	Anonymous a⋯
$logs	2/15/2024, 3:08:33 PM	Private
mydebdata	2/15/2024, 3:10:02 PM	Private

Upload the file on to the container

mydebdata ⋯
Container

	Search	
	Overview	
	Diagnose and solve problems	
	Access Control (IAM)	
Settings		
	Shared access tokens	
	Access policy	
	Properties	
	Metadata	

↑ Upload   🔒 Change access level   ↻ Refresh | 🗑 Delete   Change tier   Acquire lease   Break lease   View snapshots   Create snapshot

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

Search blobs by prefix (case-sensitive)   ⬤ Show delete⋯

+ Add filter

Name	Modified	Access tier	Archive status	Blob type	Size
📄 Database vs datawareshouse vs data lake vs Delta ...	2/15/2024, 3:10:43 PM	Hot (Inferred)		Block blob	22.68 KiB

Generate SAS URL

Generate SAS and connection string

Connection string

BlobEndpoint=https://hexadeb1079.blob.core.windows.net/;QueueEndpoint=https://hexadeb1079.queue.core.windows.net/;FileEndpoint=https://hexadeb1079.file.core.windows.net/;TableEndpoint=https

SAS token ⓘ

?sv=2022-11-02&ss=bfqt&srt=sco&sp=rwdlacupiytfx&se=2024-02-15T18:18:02Z&st=2024-02-15T10:18:02Z&spr=https&sig=%2FflF3W2lVWEvDbEjRWkJsAqPrgW9Qo36ZyyMtbytuFU%3D

Blob service SAS URL

https://hexadeb1079.blob.core.windows.net/?sv=2022-11-02&ss=bfqt&srt=sco&sp=rwdlacupiytfx&se=2024-02-15T18:18:02Z&st=2024-02-15T10:18:02Z&spr=https&sig=%2FflF3W2lVWEvDbEjRWkJsAq

File service SAS URL

https://hexadeb1079.file.core.windows.net/?sv=2022-11-02&ss=bfqt&srt=sco&sp=rwdlacupiytfx&se=2024-02-15T18:18:02Z&st=2024-02-15T10:18:02Z&spr=https&sig=%2FflF3W2lVWEvDbEjRWkJsAqP
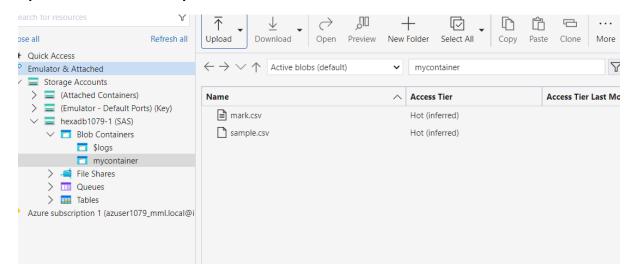
Connect it using azure storage explorer

Upload the files in file explorer

Reflected on the container