

Akilesh K

k.akilesh123@gmail.com

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 *	<input type="text" value="Azure subscription 1"/>
Resource group *	<input type="text" value="rg-azuser1079_mml.local-THAYU"/>

[Create new](#)

Instance details

Storage account name ⓘ *	<input type="text" value="sample123db"/>
Region ⓘ *	<input type="text" value="(Asia Pacific) Central India"/>

[Deploy to an edge zone](#)

deployed

hexadb1079_1707998476849 | Overview

Deployment

Search

DeleteCancelRedeployDownloadRefresh

Overview

Inputs

Outputs

Template

Deployment is in progress

Deployment name: hexadb1079_1707998476849

Subscription: [Azure subscription 1](#)

Resource group: [rg-azuser1079_mml.local-THAYU](#)

Start time: 2/15/2024, 5:31:18 PM

Correlation ID: 687ee455-4843-46d9-9c57-9b1c47fe2c9c

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

UploadOpen in ExplorerDeleteMoveRefreshOpen in mobileCLI / P5Feedback

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

Essentials

Resource group (move) : [rg-azuser1079_mml.local-THAYU](#)

Location : centralindia

Primary/Secondary Location : Primary: Central India, Secondary: South India

Subscription (move) : [Azure subscription 1](#)

Subscription ID : 984f097c-963c-4eb6-a20d-839457ae9f08

Disk state : Primary: Available, Secondary: Available

Tags (edit) : [Add tags](#)

Performance : Standard

Replication : Read-access geo-redundant storage (RA-GRS)

Account kind : StorageV2 (general purpose v2)

Provisioning state : Succeeded

Created : 2/15/2024, 3:08:02 PM

Properties

Monitoring

Capabilities (7)

Recommendations (0)

Tutorials

Tools + SDKs

Blob service

Hierarchical namespace : Disabled

Default access tier : Hot

Blob anonymous access : Disabled

Blob soft delete : Enabled (7 days)

Container soft delete : Enabled (7 days)

Security

Require secure transfer for REST API operations : Enabled

Storage account key access : Enabled

Minimum TLS version : Version 1.2

Infrastructure encryption : Disabled

Creating container

hexadeb1079 | Containers

Storage account

Search

«

+ Container

Change access level

Restore containers

Refresh

Delete

Give feedback

Overview

Activity log

Tags

Diagnose and solve problems

Access Control (IAM)

Data migration

Events

Search containers by prefix

Name	Last modified	Anonymous access
<input type="checkbox"/> \$logs	2/15/2024, 3:08:33 PM	Private
<input type="checkbox"/> mydebdata	2/15/2024, 3:10:02 PM	Private

Upload the file on to the container

mydebdata

Container

Search

«

Upload

Change access level

Refresh

Delete

Change tier

Acquire lease

Break lease

View snapshots

Create snapshot

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: mydebdata

Search blobs by prefix (case-sensitive)

Show deleted items

Add filter

Name	Modified	Access tier	Archive status	Blob type	Size
<input type="checkbox"/> Database vs datawarehouse 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://hexadeb1079.table.core.windows.net/

SAS token ⓘ
?sv=2022-11-02&ss=bfqt&srt=sco&sp=rwldacupiytfx&se=2024-02-15T18:18:02Z&st=2024-02-15T10:18:02Z&spr=https&sig=%2Ffif3W2IVWEvDbEjRWkJsAqPrgW9Qo36ZyyMtbytuFU%3D

Blob service SAS URL
https://hexadeb1079.blob.core.windows.net/?sv=2022-11-02&ss=bfqt&srt=sco&sp=rwldacupiytfx&se=2024-02-15T18:18:02Z&st=2024-02-15T10:18:02Z&spr=https&sig=%2Ffif3W2IVWEvDbEjRWkJsAqPrgW9Qo36ZyyMtbytuFU%3D

File service SAS URL
https://hexadeb1079.file.core.windows.net/?sv=2022-11-02&ss=bfqt&srt=sco&sp=rwldacupiytfx&se=2024-02-15T18:18:02Z&st=2024-02-15T10:18:02Z&spr=https&sig=%2Ffif3W2IVWEvDbEjRWkJsAqPrgW9Qo36ZyyMtbytuFU%3D

Connect it using azure storage explorer

Microsoft Azure Storage Explorer

File Edit View Help

EXPLORER

Search for resources

Collapse all

Refresh all

Quick Access

Emulator & Attached

Storage Accounts

(Attached Containers)

Blob Containers

File Shares

Queues

Tables

(Emulator - Default Ports) (Key)

hexa-1079 (SAS)

Blob Containers

\$logs

mydebdta

File Shares

Queues

Tables

Azure subscription 1 (azuser1079_mml.local@i

mydebdta

Get Started

Upload

Download

Open

Preview

New Folder

Select All

Copy

Paste

Clone

More

Active blobs (default)

mydebdta

Name	Access Tier	Access Tier Last M
Database vs datawarehouse vs data lake vs Delt Hot (inferred)		

Showing 1 to 1 of 1 cached items

Actions

Properties

Activities

URL

Custom Domain

Type

HNS Enabled

Lease State

Lease Status

Public Read Access

Last Modified

https://hexadeb1079.bl

Blob Container

false

available

unlocked

off

15 February 2024 15:10

Clear completed

Clear successful

Successfully added new connection.

Added Azure account 'azuser1079_mml.local@iihtl.onmicrosoft.com'

Upload the files in file explorer

search for resources

use all

Refresh all

Quick Access

Emulator & Attached

Storage Accounts

(Attached Containers)

(Emulator - Default Ports) (Key)

hexadb1079-1 (SAS)

Blob Containers

\$logs

mycontainer

File Shares

Queues

Tables

Azure subscription 1 (azuser1079_mml.local@i

Upload

Download

Open

Preview

New Folder

Select All

Copy

Paste

Clone

More

Active blobs (default)

mycontainer

Name	Access Tier	Access Tier Last Mo
mark.csv	Hot (inferred)	
sample.csv	Hot (inferred)	

Reflected on the container

mycontainer

Container

Search

Upload

Change access level

Refresh

Delete

Change tier

Acquire lease

Break lease

View snapshots

Overview

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Access Control (IAM)

Settings

Shared access tokens

Access policy

Properties

Metadata

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

Location: mycontainer

Search blobs by prefix (case-sensitive)

Add filter

Name	Modified	Access tier	Archive status	Blob type
<input type="checkbox"/> mark.csv	2/15/2024, 5:32:56 PM	Hot (Inferred)		Block blob
<input type="checkbox"/> sample.csv	2/15/2024, 5:36:48 PM	Hot (Inferred)		Block blob