

Azure Synapse External Tables Autorización via Managed Identity

Ahora, en este capítulo, vamos a ver cómo crear una External table usando algo conocido como "Managed identity". Solo hemos visto como crear tablas externas cuando llegamos a la sección de Azure Synapse. Allí, creamos una tabla externa utilizando la "Access key" cuando se trata de autorización. Ahora, la "Access key" en si misma es como tener una contraseña y tener eso en el script no es un enfoque ideal. Así que hay algunas otras maneras en que podemos gestionar la autorización y aquí vamos a ver cómo lograr esto con la ayuda de la "Managed identity". Así que normalmente en un Azure, para un cierto número de recursos, en realidad se puede habilitar algo conocido como una "Managed identity ". Cuando se habilita una "Managed Identity", la identidad se crea en Azure Active Directory. Por ejemplo, si tienes una VM, una máquina virtual, si el nombre de esta VM es, digamos, 'demovm', y si habilitas la característica de "Managed identity" para esta máquina virtual, se creará una identidad con el nombre de 'demovm' en Azure Active Directory. Entonces podrás dar acceso a recursos como la cuenta de almacenamiento Azure Data Lake Gen2 a esa identidad. Así que esto ayuda a los recursos para acceder de forma segura a otro recurso basado en las identidades que están disponibles en Azure Active Directory. En nuestro script, vamos a crear una tabla externa basada en los datos del archivo "Log.csv", que tenemos en la cuenta de almacenamiento Azure Data Lake Gen2. Así que como dije antes, cuando se trataba de la autorización, estábamos buscando el uso de 'Access Keys' de nuevo. Esto es como tener un enfoque basado en contraseñas, porque al final, esto no es más que un secreto. Sí, hay maneras en que usted puede acceder a este secreto de una manera un poco más segura, entonces vamos a ver el enfoque de "Managed identity". Ahora, cuando se trata de Azure Synapse, la "Managed identity" está disponible para Azure Synapse, entonces vamos a dar acceso a nuestra cuenta de almacenamiento Azure Data Lake Gen2 como lo haríamos normalmente para cualquier otra identidad. Así que recordemos que antes habíamos creado un usuario y para ese usuario habíamos dado acceso via "Role based access control" y también "Access control list", diciendo que ahora daremos acceso a Azure Synapse.

Microsoft Azure Search resources, services, and docs (G+/)

Dashboard > All resources > appworkspace9000

appworkspace9000 | Managed identities

Synapse workspace

Search (Ctrl+/) Save Discard

- SQL pools
- Apache Spark pools
- Security
 - Encryption
 - Firewalls
 - Managed identities**
 - Private endpoint connections
 - Approved Azure AD tenants
 - Azure SQL Auditing
 - Azure Defender for SQL

System assigned managed identity

Choose whether you'd like to assign the workspace's system-assigned managed identity CONTROL permissions to SQL pools for pipeline integration. [Learn more](#)

☒ Allow pipelines (running as workspace's system assigned identity) to access SQL pools.

Microsoft Azure Search resources, services, and docs (G+/)

Dashboard > Storage accounts > datalake2000

datalake2000 | Access Control (IAM)

Storage account

Search (Ctrl+/) + Add Download role assignments Edit columns Refresh Remove

- Overview
- Activity log
- Tags
- Diagnose and solve problems
- Access Control (IAM)**
- Data migration
- Events
- Storage Explorer (preview)
- Data storage
 - Containers
 - File shares

Add role assignment

Add role assignment (Preview)

Add co-administrator

View my level of access to this resource.

View my access

Check access

Review the level of access a user, group, service principal, or managed identity has to this resource. [Learn more](#)

Find ①

User, group, or service principal

Search by name or email address

Grant access to this resource

Grant access to resources by assigning a role.

Add role assignment (Preview)

[Use the classic experience](#) [Learn more](#)

View access to this resource

View the role assignments that grant access to this and other resources.

Damos acceso rol “Reader” al workspace de Azure Synapse. Así que podemos ver que también podemos elegir una **identidad** que se asocia a Azure Synapse workspace

Microsoft Azure | Search resources, services, and docs (G+/)

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datalake2000 | Access Control (IAM)

Storage account

Search (Ctrl+/) << + Add ↓ Download role assignments

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

Data storage
Containers
File shares
Queues

Check access
View my level of access to this resource.
[View my access](#)

Check access
Review the level of access a user, group, service principal, or managed identity has to this resource. [Learn more](#)

Find ⓘ
User, group, or service principal
Search by name or email address

Add role assignment

Role ⓘ
Reader

Assign access to ⓘ
User, group, or service principal

Select ⓘ
appworkspace

appworkspace100012

Selected members:
appworkspace9000 [Remove](#)

[Save](#) [Discard](#)

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Dashboard > Storage accounts > datalake2000

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Storage account

Search (Ctrl+/) << + Add ↓ Download role assignments Edit columns Refresh Remove ...

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

Data storage
Containers
File shares
Queues

Check access
View my level of access to this resource.
[View my access](#)

Check access
Review the level of access a user, group, service principal, or managed identity has to this resource. [Learn more](#)

Find ⓘ
User, group, or service principal
Search by name or email address

Grant access to this resource

Grant access to resources by assigning a role.

[Add role assignment \(Preview\)](#)
Use the classic experience [Learn more](#)

View access to this resource

View the role assignments that grant access to this and other resources.

Microsoft Azure | Search resources, services, and docs (G+)

Dashboard > Storage accounts > datalake2000

datalake2000 | Access Control (IAM)

Storage account

Search (Ctrl+)

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

Data storage
Containers
File shares
Queues

Check access
Role assignments
Role definitions

My access
View my level of access to this resource.
[View my access](#)

Check access
Review the level of access a user, group, service principal, or managed identity has to this resource. [Learn more](#)

Find
User, group, or service principal
Search by name or email address

Add role assignment

Role
Storage Blob Data Reader

Assign access to
User, group, or service principal

Select
appworkspace

appworkspace100012

Selected members:
appworkspace9000 [Remove](#)

[Save](#) [Discard](#)

Ahora desde Azure Storage Explorer

Microsoft Azure Storage Explorer

File Edit View Help

EXPLORER

Search for resources

Collapse All Refresh All

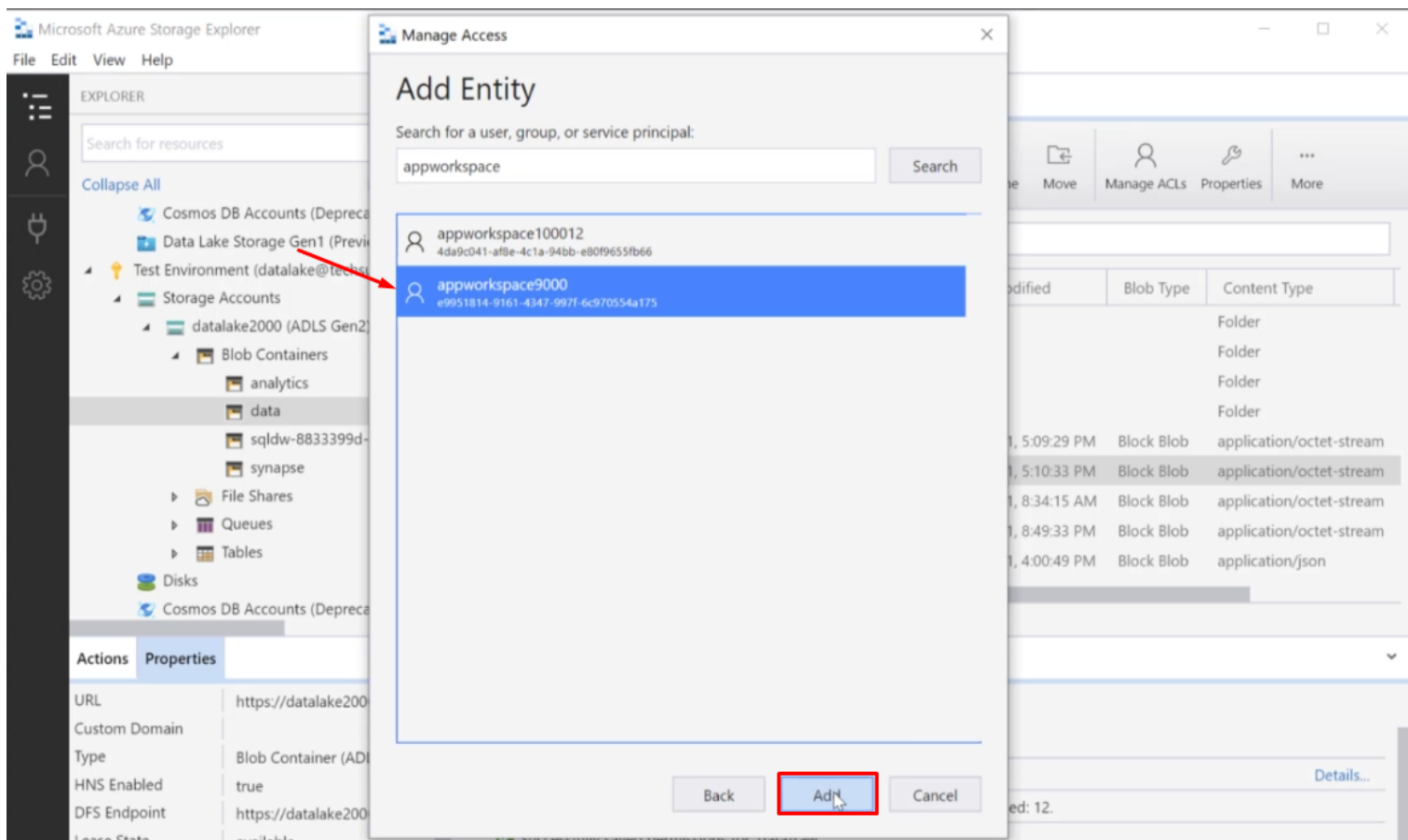
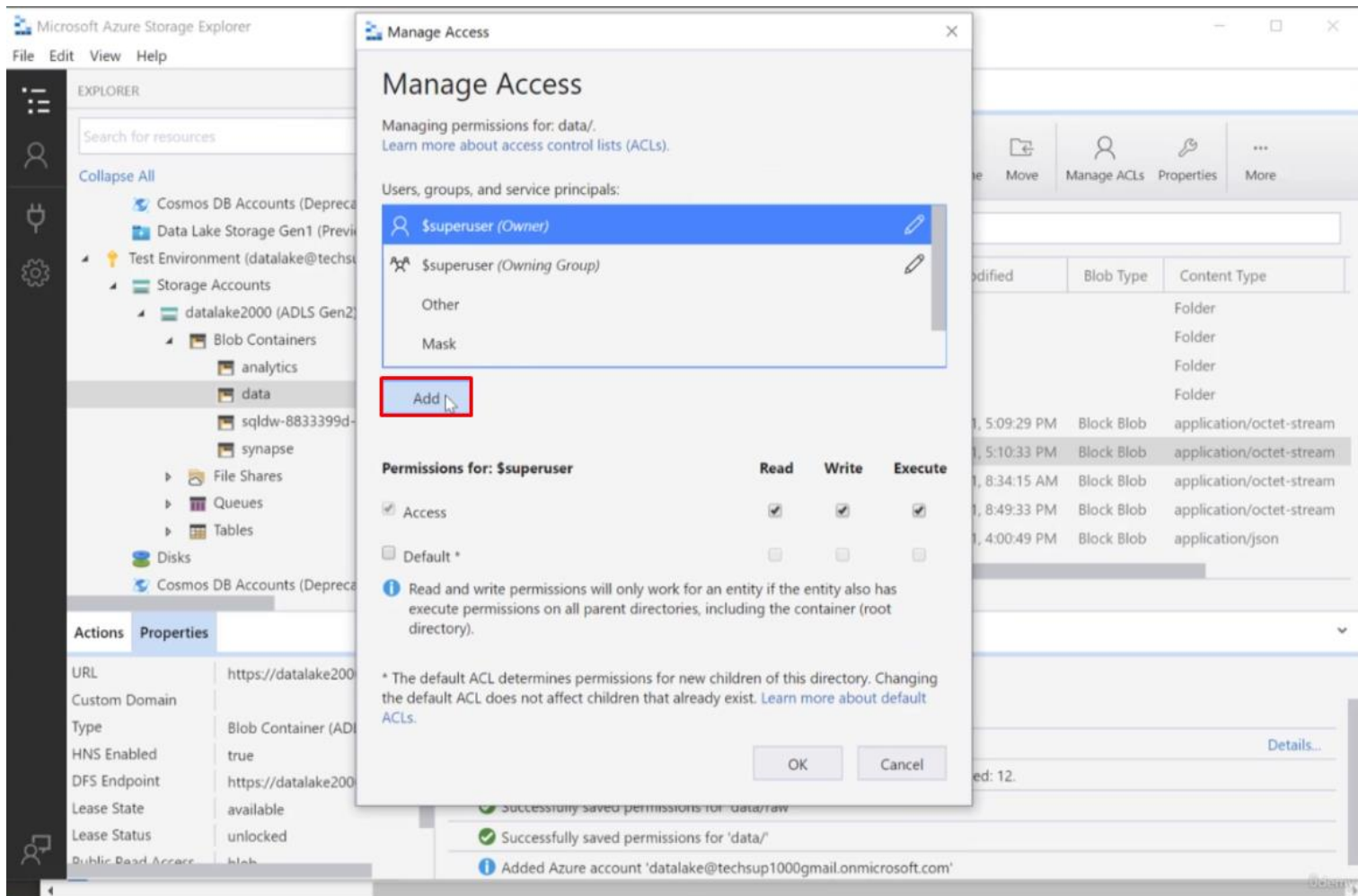
- Cosmos DB Accounts (Deprecated)
- Data Lake Storage Gen1 (Preview)
- Test Environment (datalake@techsup1000gr)
- Storage Accounts
 - datalake2000 (ADLS Gen2)
 - Blob Containers
 - analytics
 - data
 - Open
 - Open New Tab
 - Manage Access Control Lists...
 - Propagate Access Control Lists...
 - Properties...
 - Delete
 - Acquire Lease
 - Break Lease
 - Add to Quick Access
 - Refresh

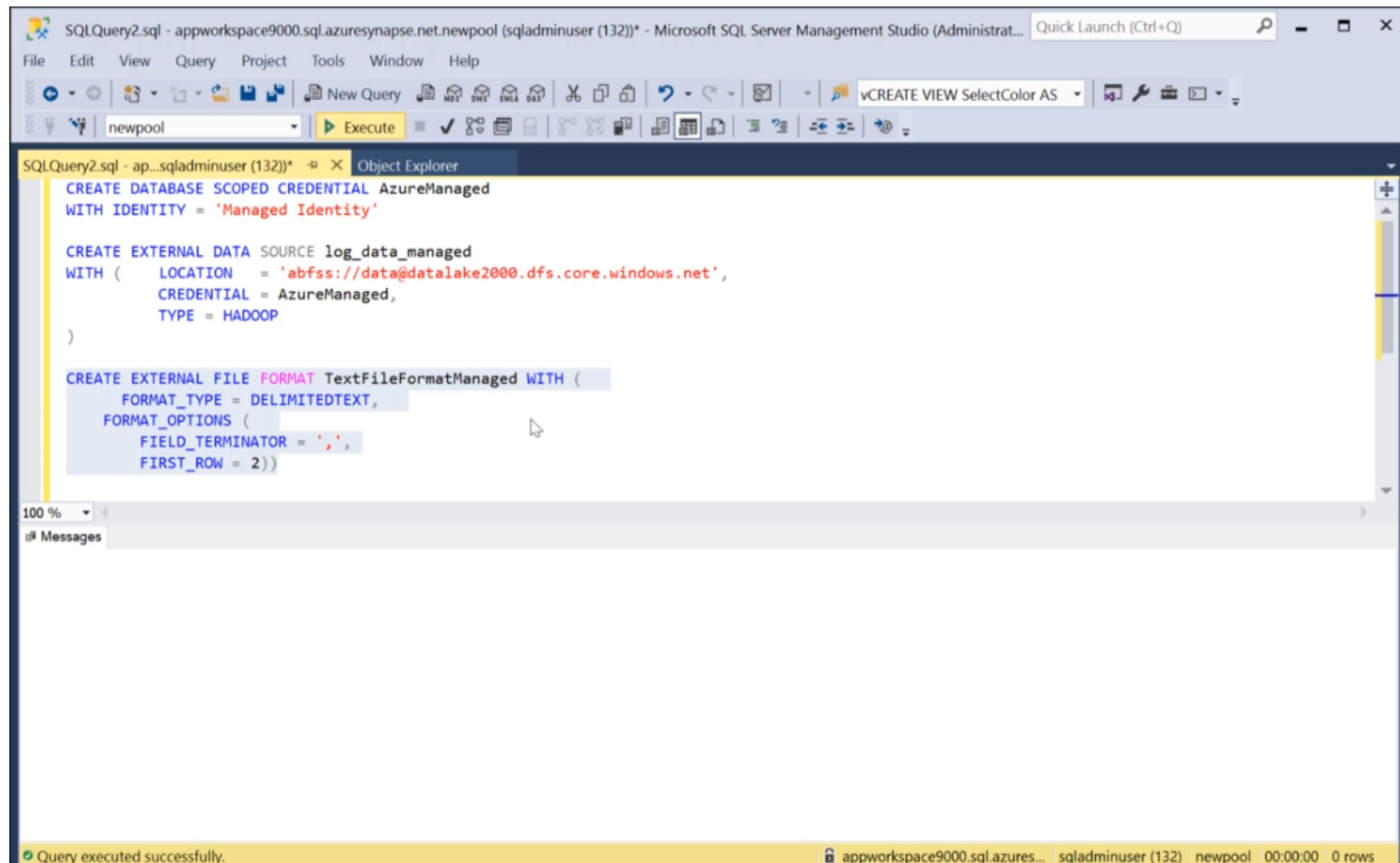
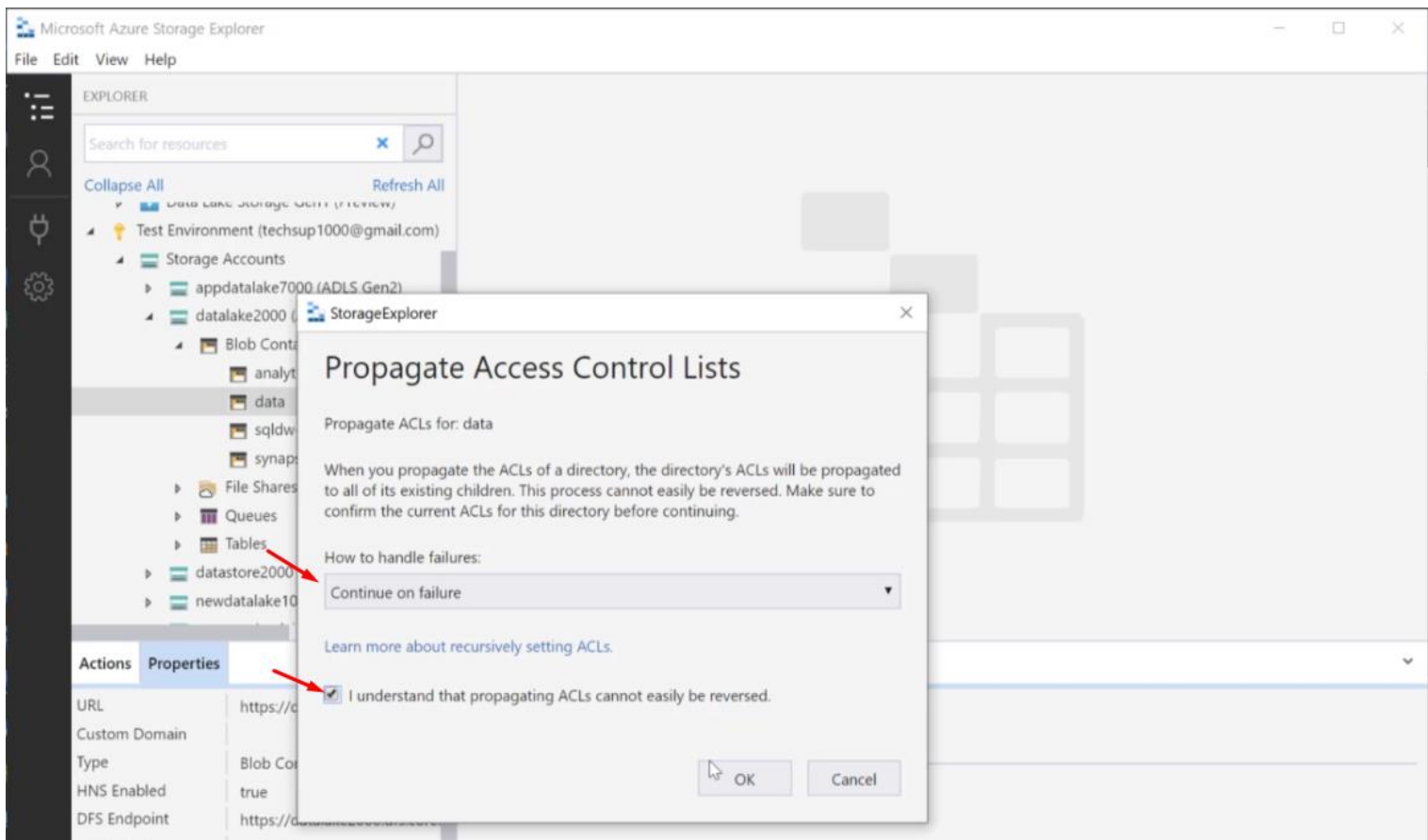
data > raw

Name	Access Tier	Access Tier Last Modified	Last Modified	Blob Type	Content Type
customer				Folder	
newparquet				Folder	
nginx				Folder	
parquet				Folder	
original.csv	Hot (inferred)		7/4/2021, 5:09:29 PM	Block Blob	application/octet-stream
original.csv	Hot (inferred)		7/7/2021, 5:10:33 PM	Block Blob	application/octet-stream
original.csv	Hot (inferred)		7/7/2021, 8:34:15 AM	Block Blob	application/octet-stream
original.csv	Hot (inferred)		7/6/2021, 8:49:33 PM	Block Blob	application/octet-stream
original.csv	Hot (inferred)		7/2/2021, 4:00:49 PM	Block Blob	application/json

to 9 of 9 cached items

Failed to get permissions for 'data/'





```
25
26 CREATE EXTERNAL TABLE logdatamanaged
27 (
28     [Id] [int] NULL,
29     [Correlationid] [varchar](200) NULL,
30     [Operationname] [varchar](200) NULL,
31     [Status] [varchar](100) NULL,
32     [Eventcategory] [varchar](100) NULL,
33     [Level] [varchar](100) NULL,
34     [Time] [datetime] NULL,
35     [Subscription] [varchar](200) NULL,
36     [Eventinitiatedby] [varchar](1000) NULL,
37     [Resourcetype] [varchar](1000) NULL,
38     [Resourcegroup] [varchar](1000) NULL
39 )
40 WITH (
41     LOCATION = 'cleaned/Log.csv',
42     DATA_SOURCE = log_data_managed,
43     FILE_FORMAT = TextFileFormatManaged
44 )
45
46
47
48 SELECT * FROM logdatamanaged
49
50 -- If you want to clean up your resources
51
52 DROP EXTERNAL TABLE logdatamanaged
53 DROP EXTERNAL FILE FORMAT TextFileFormatManaged
54 DROP EXTERNAL DATA SOURCE log_data_managed
55 DROP DATABASE SCOPED CREDENTIAL AzureManaged
```