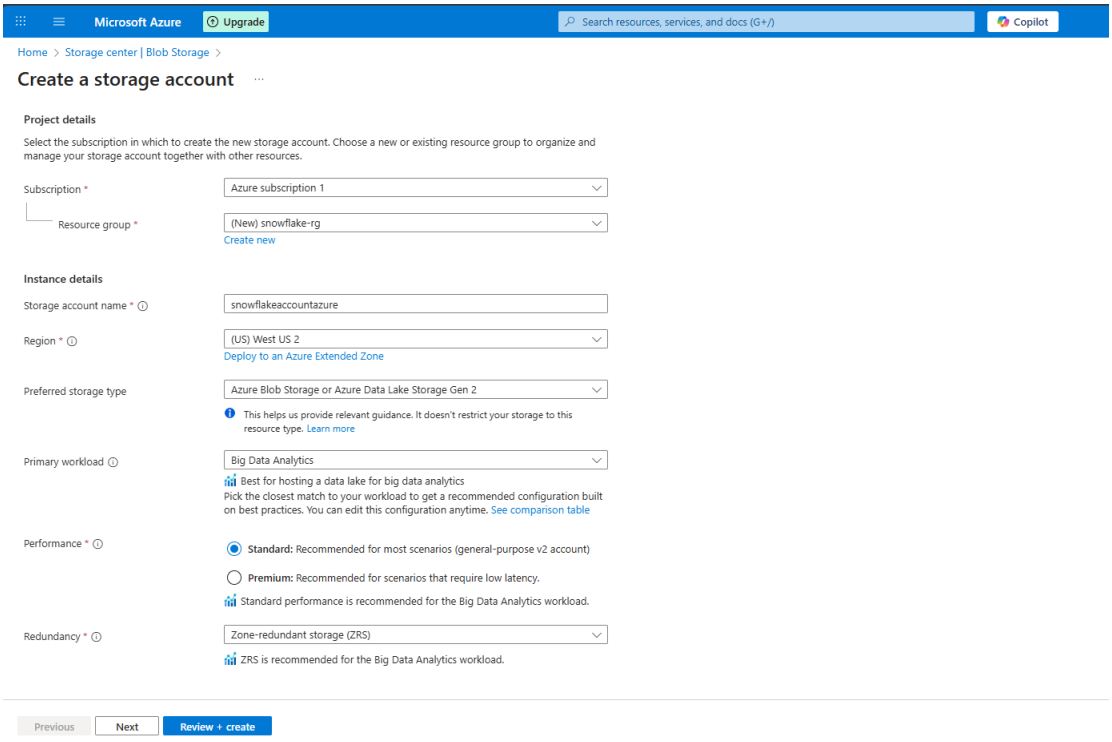
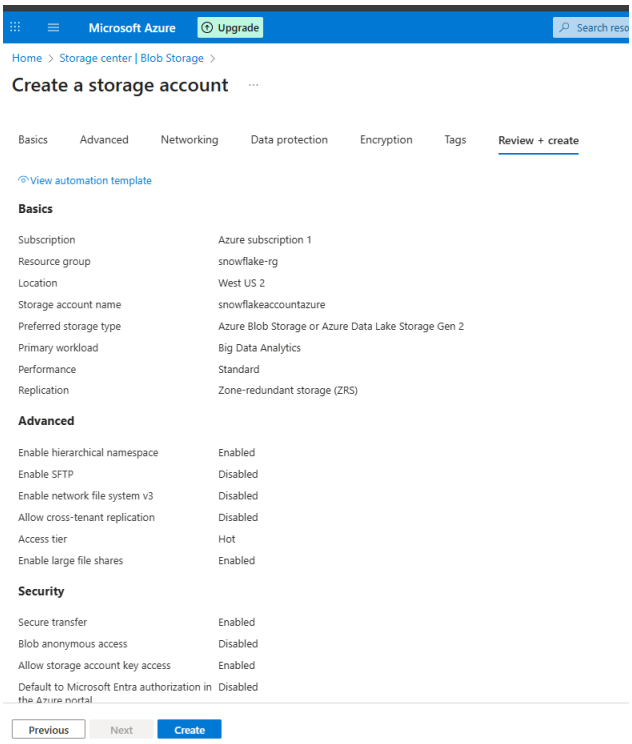
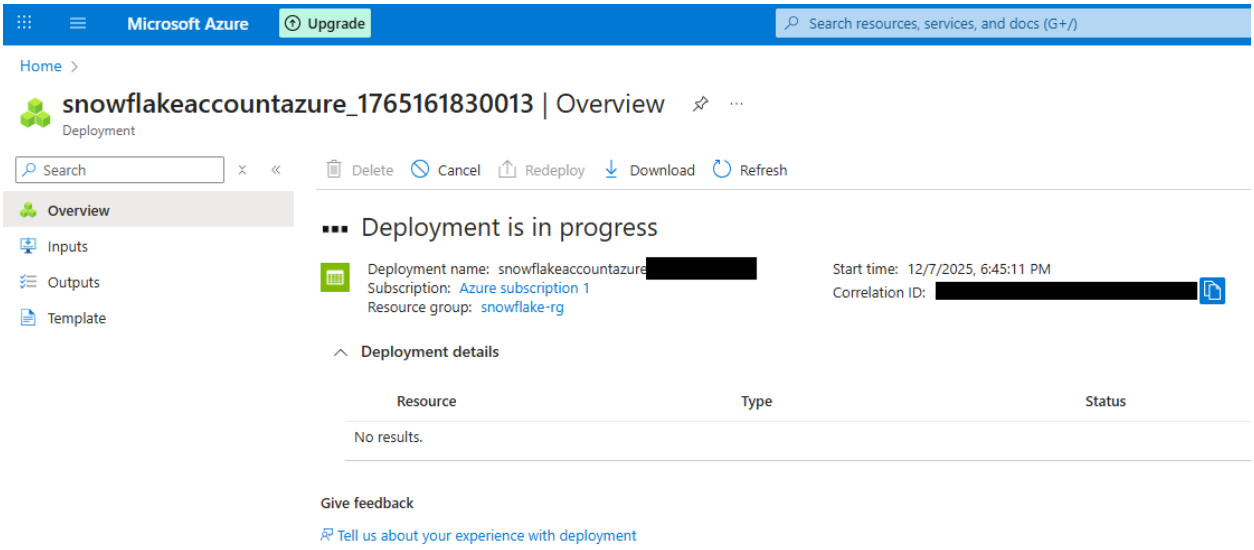
Snowflake Demo Azure Integration

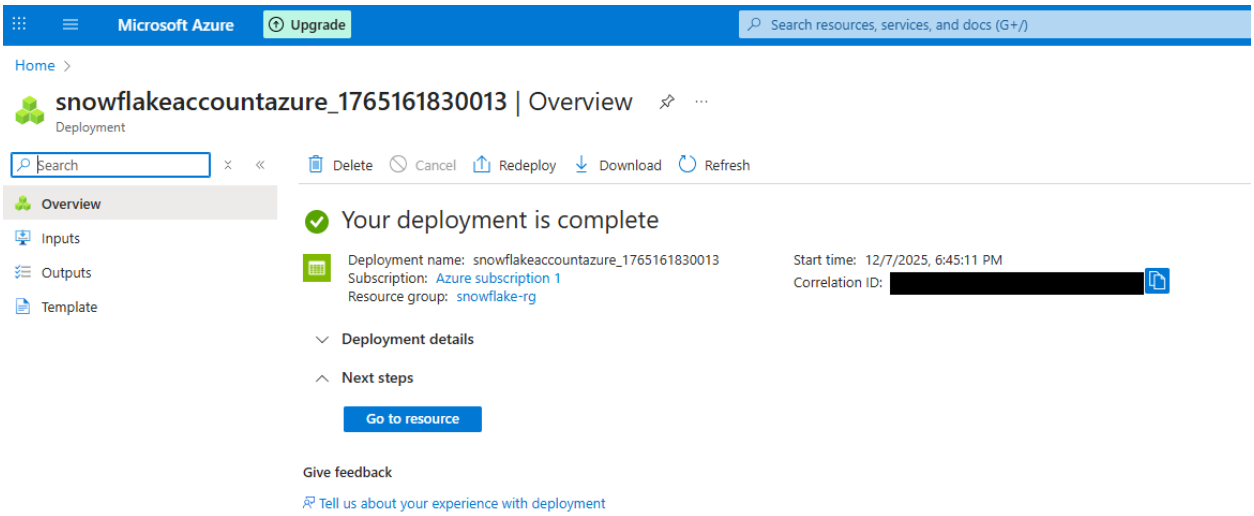
Create an Azure account

Create a ADLS Gen2 Storage Account



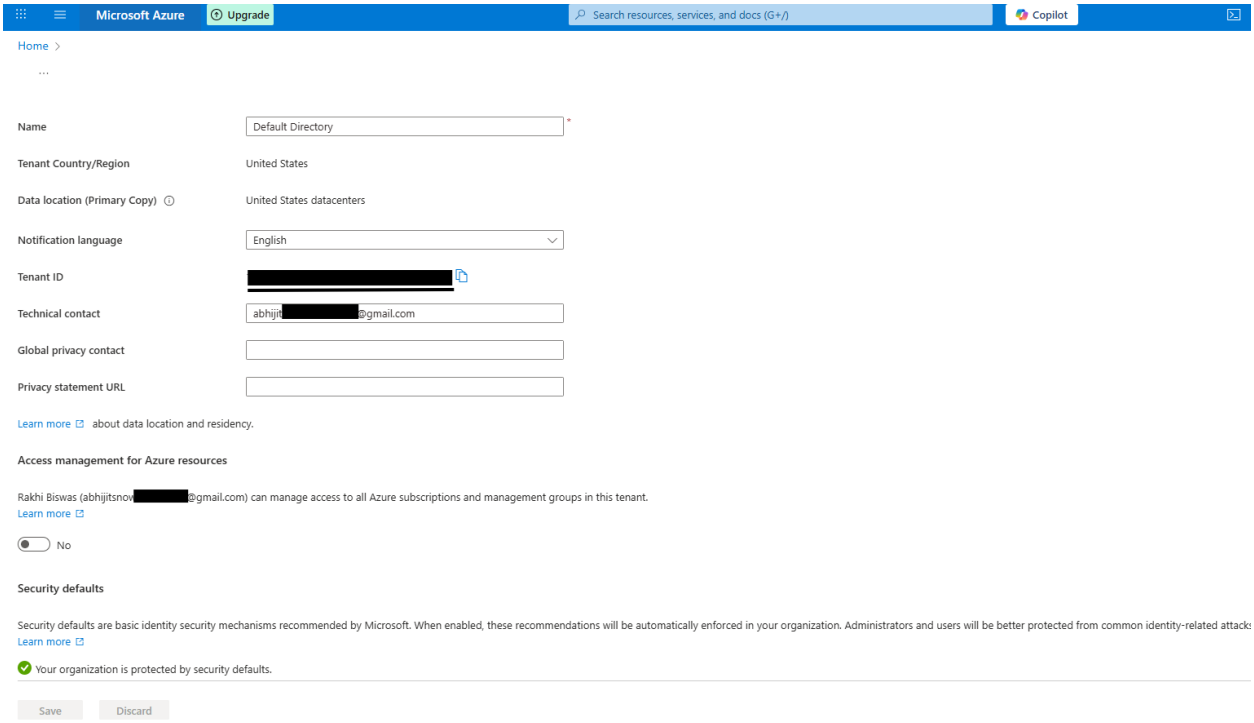

Microsoft Azure
Upgrade
Search reso
Home > Storage center | Blob Storage >
Create a storage account
Basics
Advanced
Networking
Data protection
Encryption
Tags
Review + create
View automation template
Basics
Subscription
Azure subscription 1
Resource group
snowflake-rg
Location
West US 2
Storage account name
snowflakeaccountazure
Preferred storage type
Azure Blob Storage or Azure Data Lake Storage Gen 2
Primary workload
Big Data Analytics
Performance
Standard
Replication
Zone-redundant storage (ZRS)
Advanced
Enable hierarchical namespace
Enabled
Enable SFTP
Disabled
Enable network file system v3
Disabled
Allow cross-tenant replication
Disabled
Access tier
Hot
Enable large file shares
Enabled
Security
Secure transfer
Enabled
Blob anonymous access
Disabled
Allow storage account key access
Enabled
Default to Microsoft Entra authorization in the Azure portal
Disabled
Previous
Next
Create


Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
Home >
snowflakeaccountazure_1765161830013 | Overview
Deployment
Search
Overview
Inputs
Outputs
Template
Delete
Cancel
Redeploy
Download
Refresh
Deployment is in progress
Deployment name: snowflakeaccountazure[redacted]
Subscription: Azure subscription 1
Resource group: snowflake-rg
Start time: 12/7/2025, 6:45:11 PM
Correlation ID: [redacted]
Deployment details
Resource
Type
Status
No results.
Give feedback
Tell us about your experience with deployment

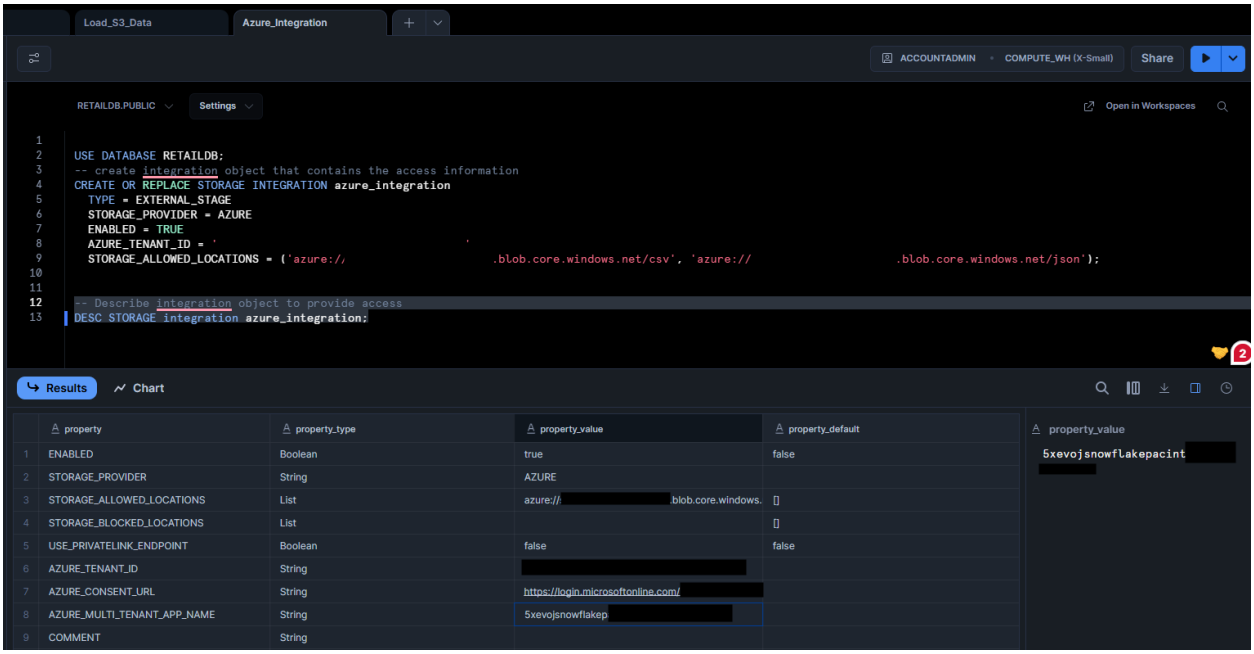


Create an external integration object

Look for tenant and copy tenant id from this.

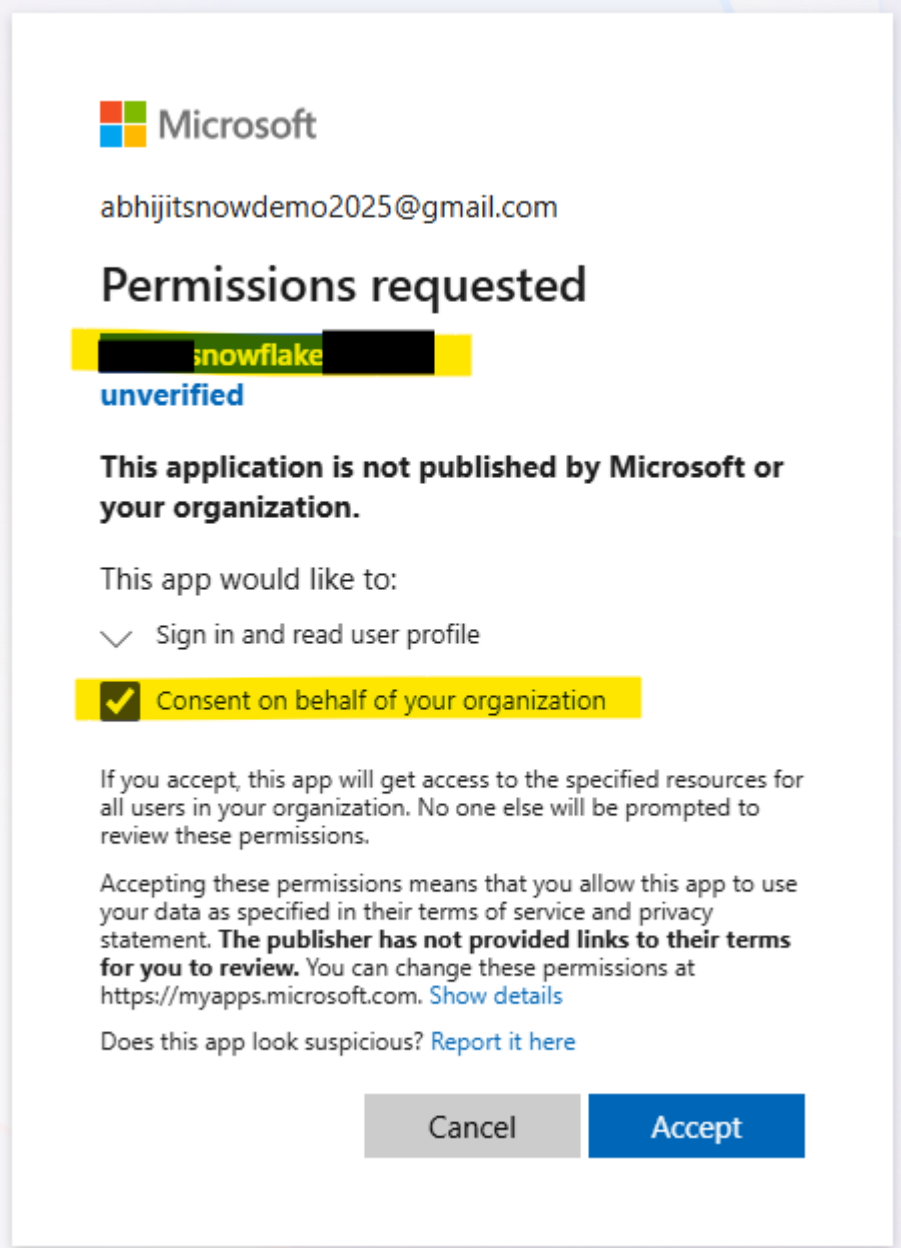


Run Create Snowflake Integration Object for Azure

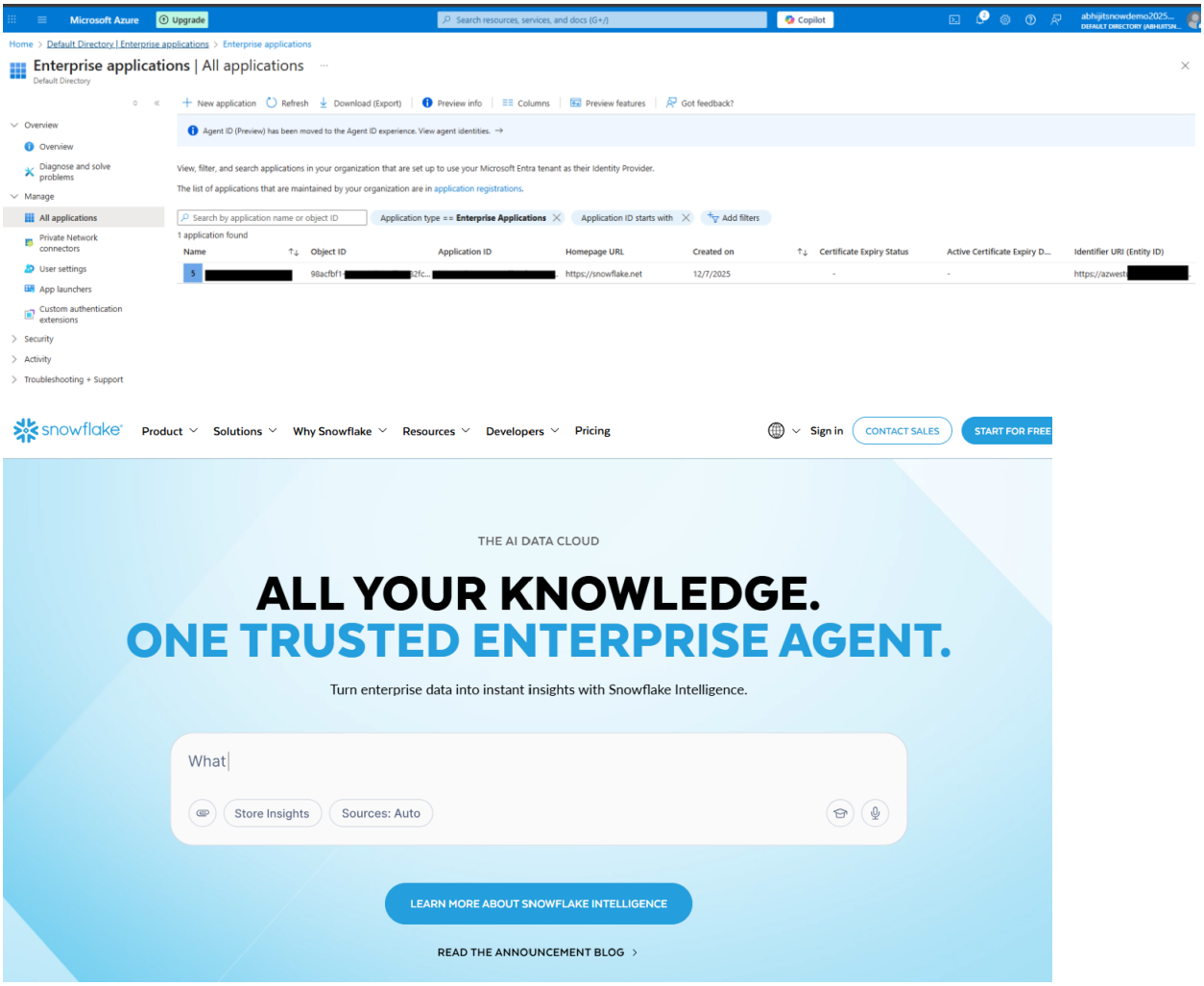


Verify the account (use incognito mode browser)

Check the box and save the application name.

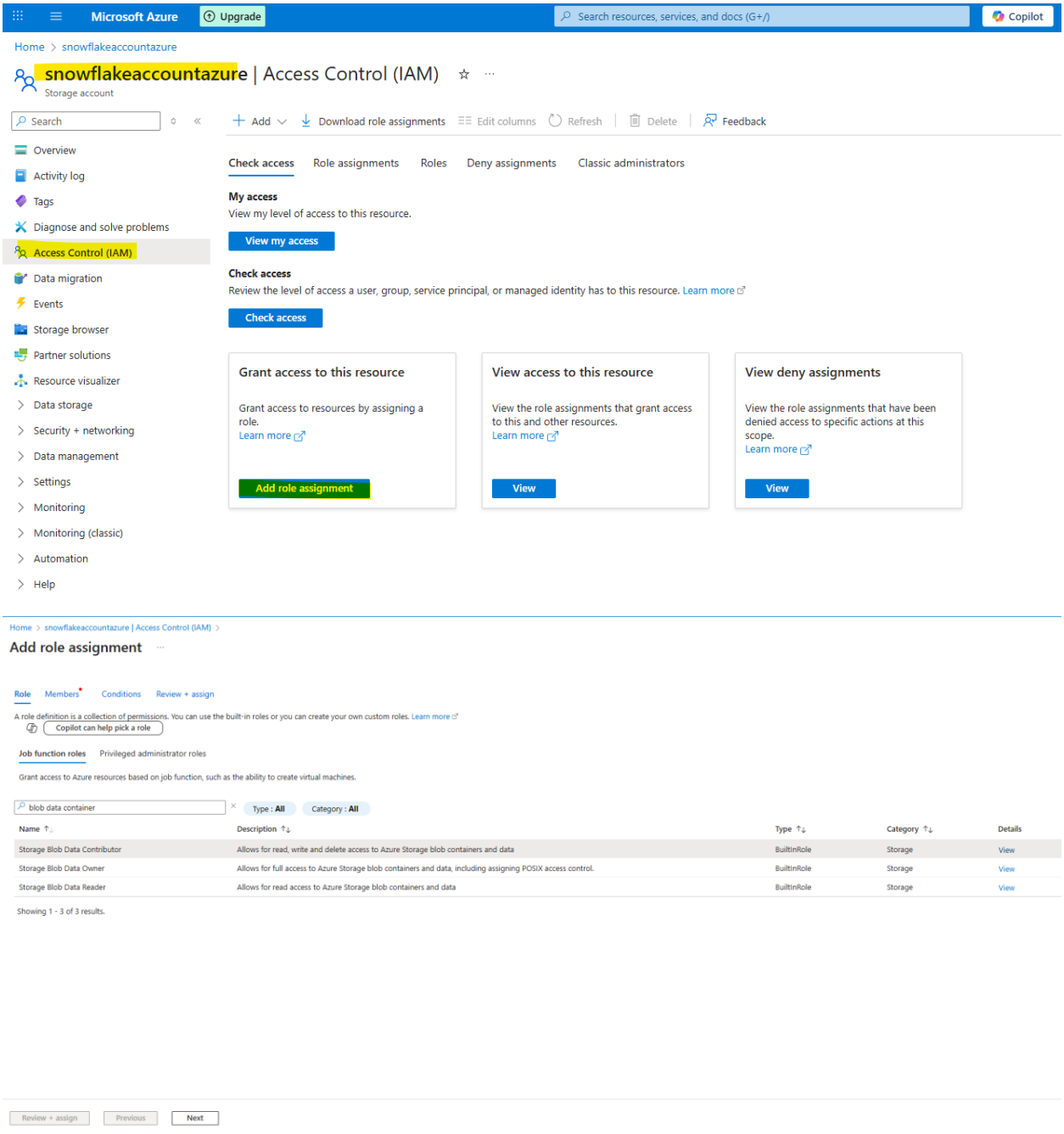


It will create an entry under Entra-ID - > Enterprise Application - > All Application.

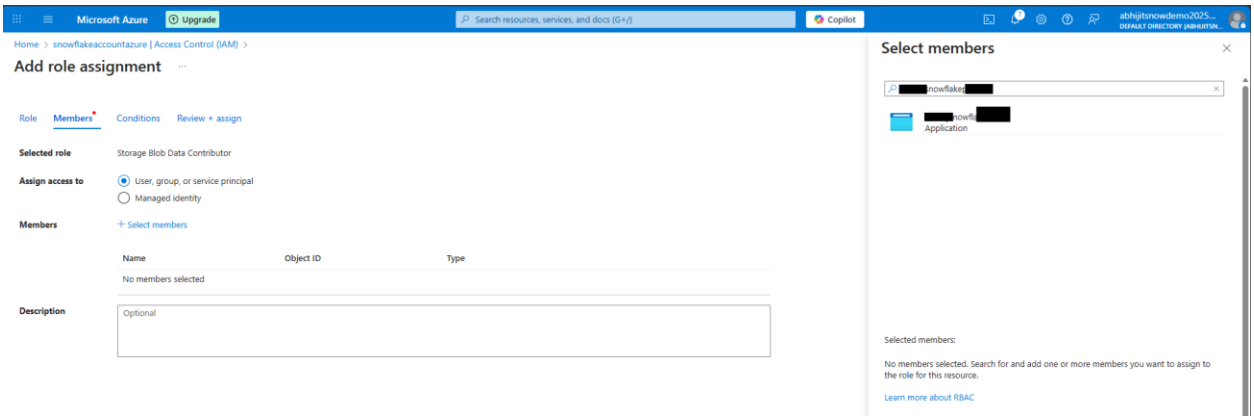


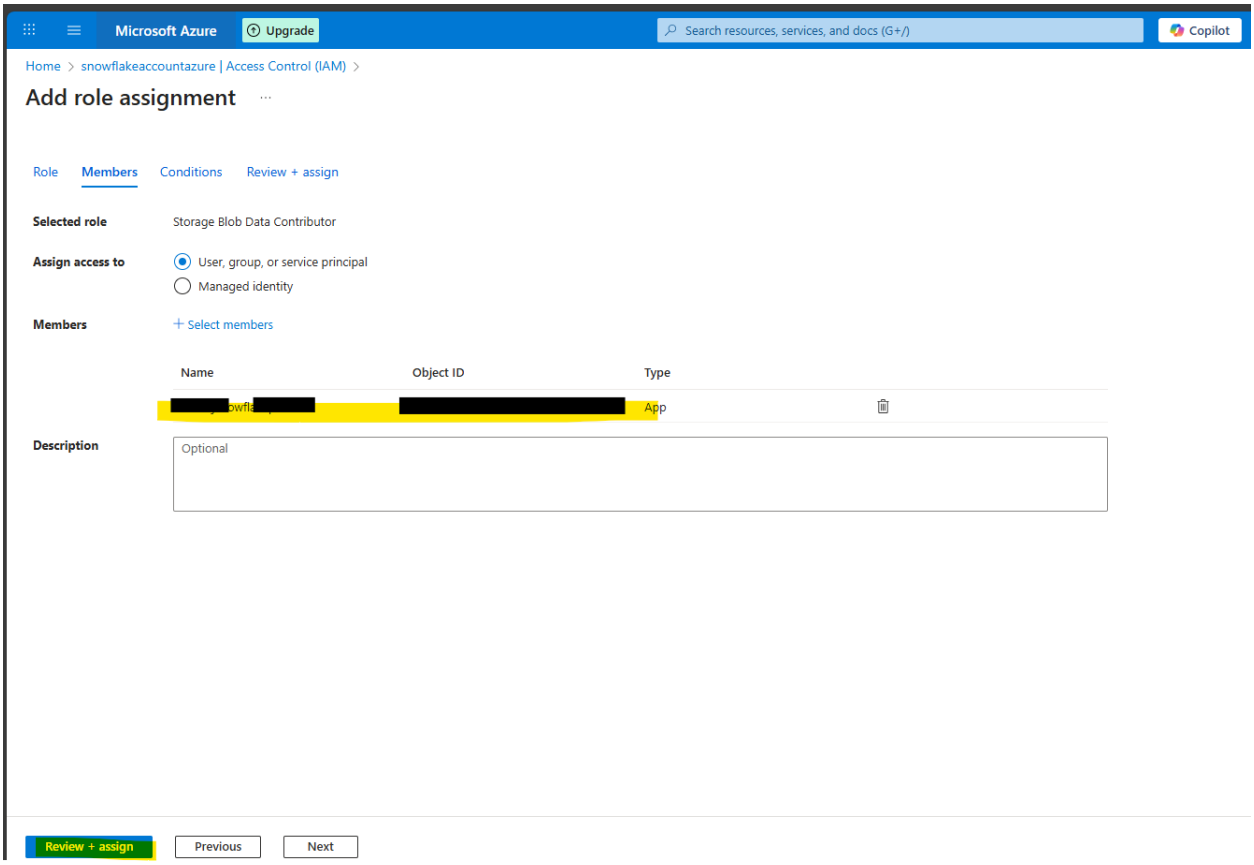
Create role and grant for access

Now we need to go to azure portal - > azure storage account - > IAM - > Add Role Assignment - >


Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
Copilot
Home > snowflakeaccountazure
snowflakeaccountazure | Access Control (IAM)
Storage account
Search
Add
Download role assignments
Edit columns
Refresh
Delete
Feedback
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Partner solutions
Resource visualizer
Data storage
Security + networking
Data management
Settings
Monitoring
Monitoring (classic)
Automation
Help
Check access
Role assignments
Roles
Deny assignments
Classic administrators
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
Check access
Grant access to this resource
Grant access to resources by assigning a role.
Learn more
Add role assignment
View access to this resource
View the role assignments that grant access to this and other resources.
Learn more
View
View deny assignments
View the role assignments that have been denied access to specific actions at this scope.
Learn more
View

Home > snowflakeaccountazure | Access Control (IAM) >
Add role assignment
Role
Members
Conditions
Review + assign
A role definition is a collection of permissions. You can use the built-in roles or you can create your own custom roles. Learn more
Copilot can help pick a role
Job function roles
Privileged administrator roles
Grant access to Azure resources based on job function, such as the ability to create virtual machines.
blob data container
Type : All
Category : All
Name
Description
Type
Category
Details
Storage Blob Data Contributor
Allows for read, write and delete access to Azure Storage blob containers and data
BuiltInRole
Storage
View
Storage Blob Data Owner
Allows for full access to Azure Storage blob containers and data, including assigning POSIX access control.
BuiltInRole
Storage
View
Storage Blob Data Reader
Allows for read access to Azure Storage blob containers and data
BuiltInRole
Storage
View
Showing 1 - 3 of 3 results.
Review + assign
Previous
Next


Microsoft Azure
Upgrade
Search resources, services, and docs (G+/)
Copilot
Home > snowflakeaccountazure | Access Control (IAM) >
Add role assignment
Role
Members
Conditions
Review + assign
Selected role
Storage Blob Data Contributor
Assign access to
User, group, or service principal
Managed identity
Members
+ Select members
Name
Object ID
Type
No members selected
Description
Optional
Select members
Application
Selected members:
No members selected. Search for and add one or more members you want to assign to the role for this resource.
Learn more about RBAC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Search resources, services, and docs (G+/)
Copilot
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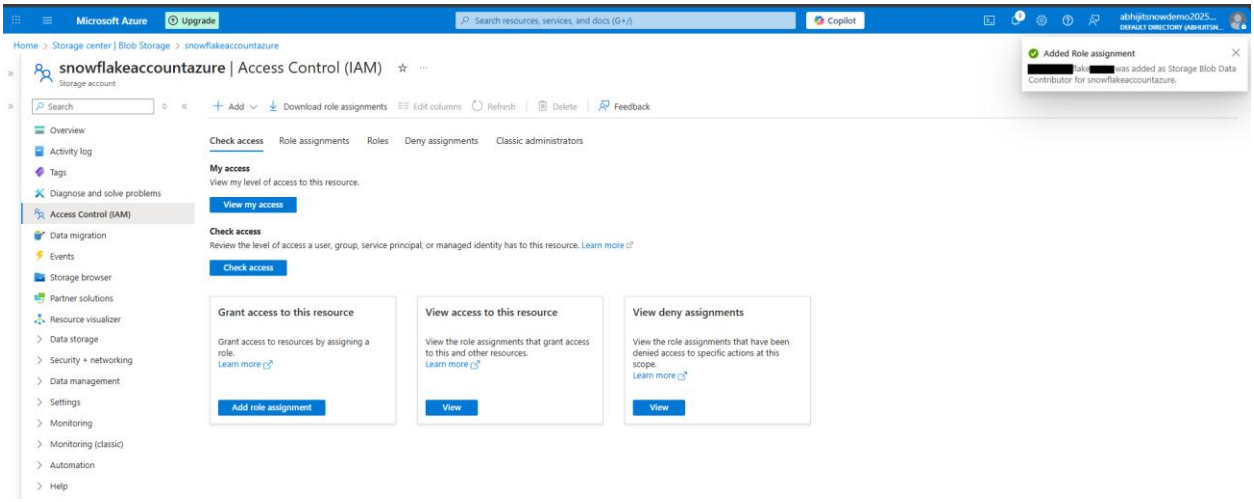
Members
Conditions
Review + assign
Selected role
Storage Blob Data Contributor
Assign access to
User, group, or service principal
Managed identity
Members
+ Select members
Name
Object ID
Type
App
Description
Optional
Review + assign
Previous
Next


Microsoft Azure
Upgrade
Copilot
Home > Storage center | Blob Storage > snowflakeaccountazure
snowflakeaccountazure | Access Control (IAM)
Storage account
Added Role assignment
was added as Storage Blob Data Contributor for snowflakeaccountazure.
Add
Download role assignments
Edit columns
Refresh
Delete
Feedback
Overview
Activity log
Tags
Diagnose and solve problems
Access Control (IAM)
Data migration
Events
Storage browser
Partner solutions
Resource visualizer
Data storage
Security + networking
Data management
Settings
Monitoring
Monitoring (classic)
Automation
Help
Check access
Role assignments
Roles
Deny assignments
Classic administrators
My access
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Check access
Review the level of access a user, group, service principal, or managed identity has to this resource. Learn more
Check access
Grant access to this resource
Grant access to resources by assigning a role.
Learn more
Add role assignment
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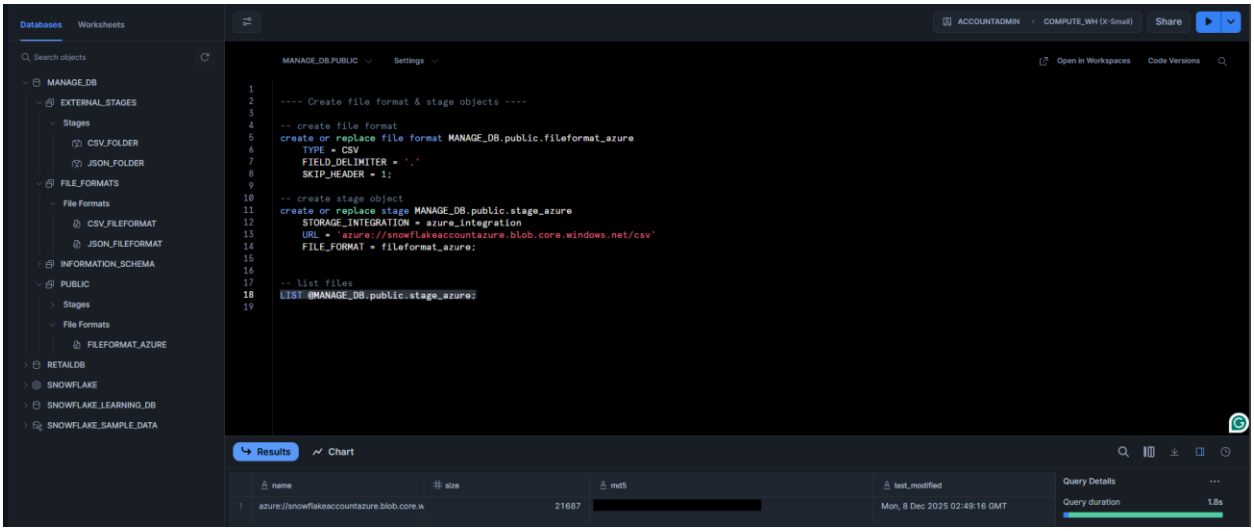
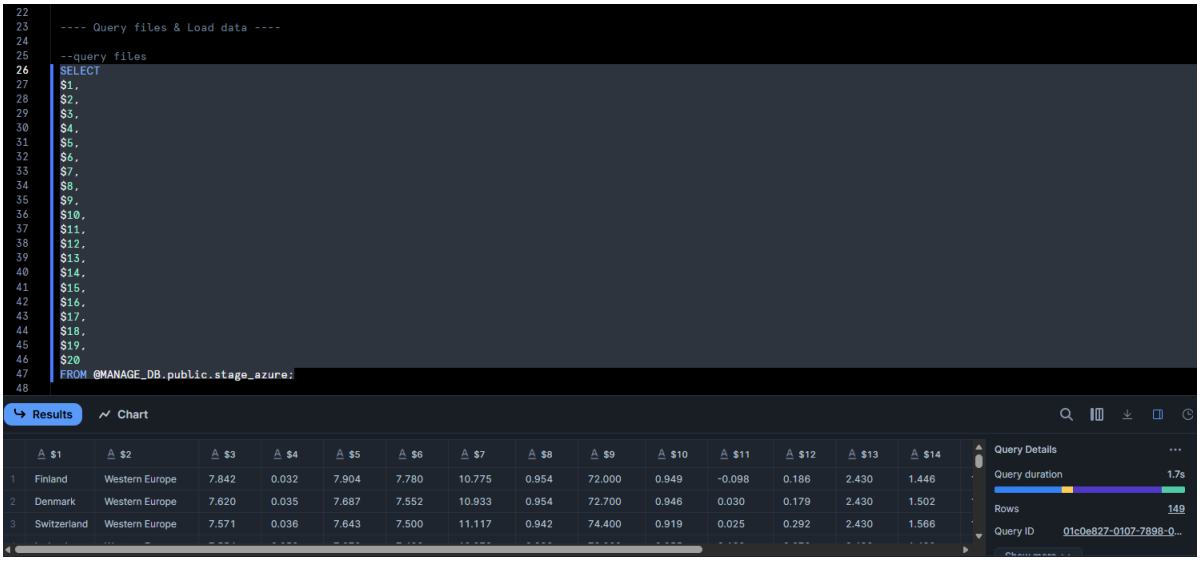
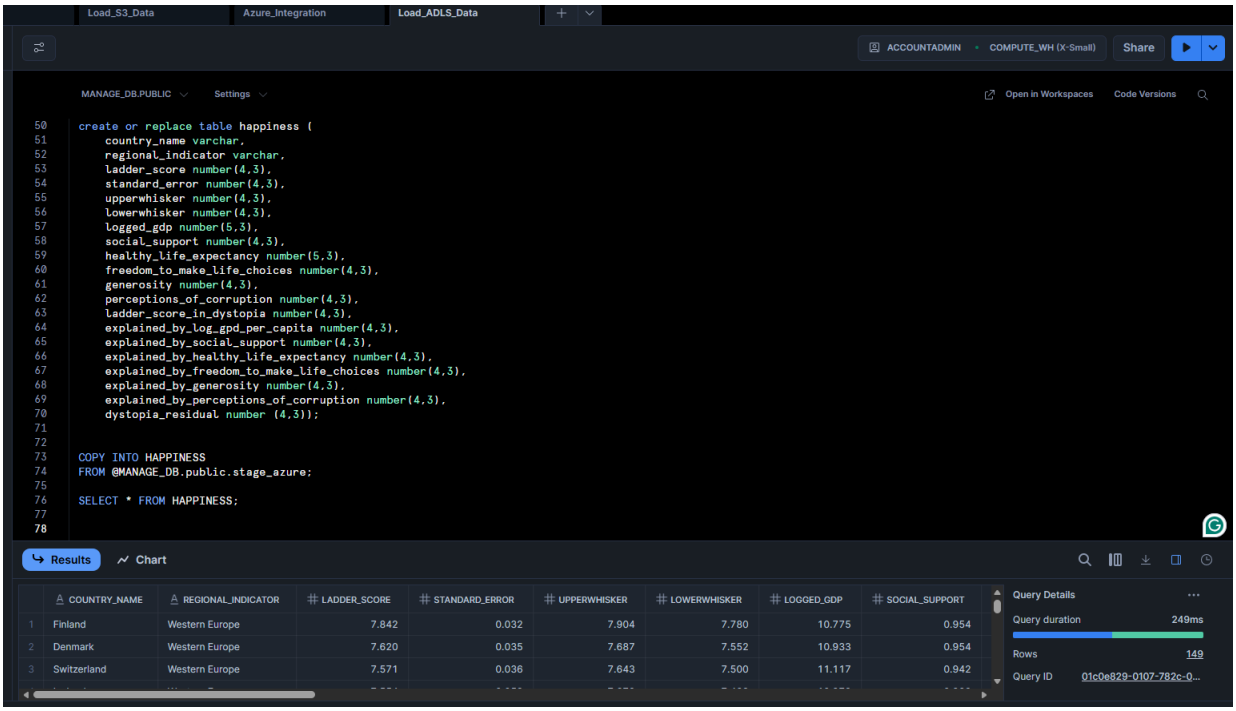
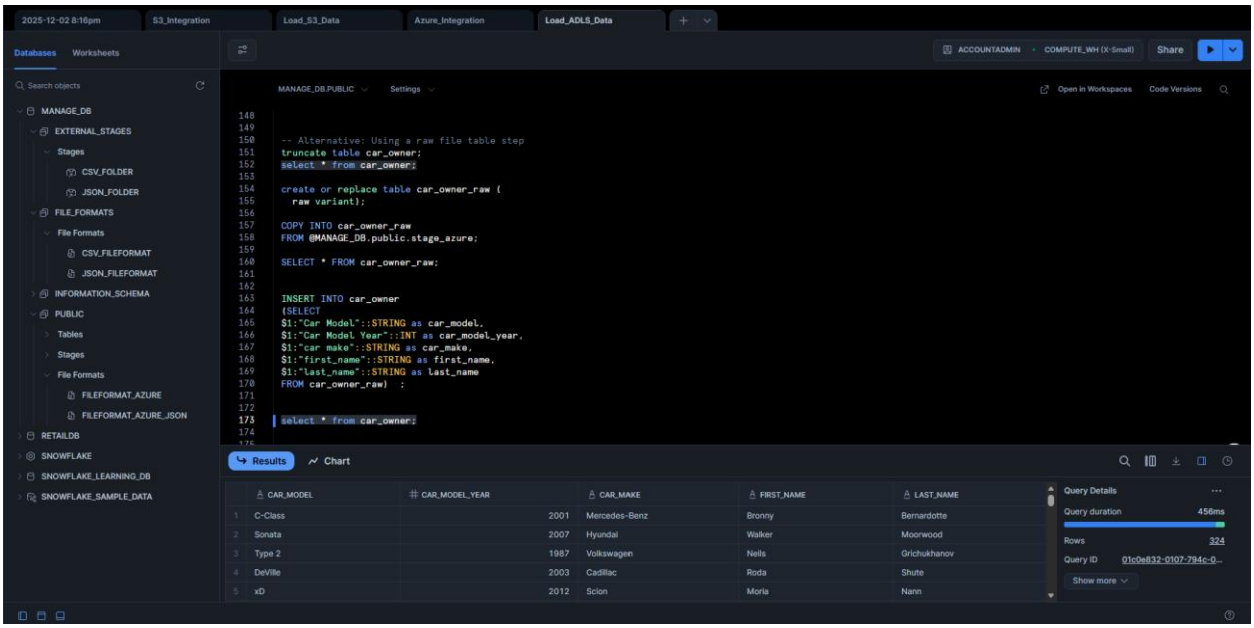
View the role assignments that grant access to this and other resources.
Learn more
View
View deny assignments
View the role assignments that have been denied access to specific actions at this scope.
Learn more
View


Databases
Worksheets
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
MANAGE_DB.PUBLIC
Settings
Open in Workspaces
Code Versions
MANAGE_DB
EXTERNAL_STAGES
Stages
CSV_FOLDER
JSON_FOLDER
FILE_FORMATS
File Formats
CSV_FILEFORMAT
JSON_FILEFORMAT
INFORMATION_SCHEMA
PUBLIC
Stages
File Formats
FILEFORMAT_AZURE
RETAILDB
SNOWFLAKE
SNOWFLAKE_LEARNING_DB
SNOWFLAKE_SAMPLE_DATA
---- Create file format & stage objects ----
-- create file format
create or replace file format MANAGE_DB.public.fileformat_azure
TYPE = CSV
FIELD_DELIMITER = ','
SKIP_HEADER = 1;
-- create stage object
create or replace stage MANAGE_DB.public.stage_azure
STORAGE_INTEGRATION = azure_integration
URL = 'azure://snowflakeaccountazure.blob.core.windows.net/csv'
FILE_FORMAT = fileformat_azure;
-- list files
LIST @MANAGE_DB.public.stage_azure;
Results
Chart
name
size
md5
last_modified
azure://snowflakeaccountazure.blob.core.w
21687
Mon, 8 Dec 2025 02:49:16 GMT
Query Details
Query duration
1.8s


---- Query files & Load data ----
--query files
SELECT
$1,
$2,
$3,
$4,
$5,
$6,
$7,
$8,
$9,
$10,
$11,
$12,
$13,
$14,
$15,
$16,
$17,
$18,
$19,
$20
FROM @MANAGE_DB.public.stage_azure;
Results
Chart
$1
$2
$3
$4
$5
$6
$7
$8
$9
$10
$11
$12
$13
$14
1 Finland Western Europe 7.842 0.032 7.904 7.780 10.775 0.954 72.000 0.949 -0.098 0.186 2.430 1.446
2 Denmark Western Europe 7.620 0.035 7.687 7.552 10.933 0.954 72.700 0.946 0.030 0.179 2.430 1.502
3 Switzerland Western Europe 7.571 0.036 7.643 7.500 11.117 0.942 74.400 0.919 0.025 0.292 2.430 1.566
Query Details
Query duration
1.7s
Rows
149
Query ID
01c0e827-0107-7898-0...


Load_S3_Data
Azure_Integration
Load_ADLS_Data
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
MANAGE_DB.PUBLIC
Settings
Open in Workspaces
Code Versions
create or replace table happiness (
country_name varchar,
regional_indicator varchar,
ladder_score number(4,3),
standard_error number(4,3),
upperwhisker number(4,3),
lowerwhisker number(4,3),
logged_gdp number(5,3),
social_support number(4,3),
healthy_life_expectancy number(5,3),
freedom_to_make_life_choices number(4,3),
generosity number(4,3),
perceptions_of_corruption number(4,3),
ladder_score_in_dystopia number(4,3),
explained_by_log_gpd_per_capita number(4,3),
explained_by_social_support number(4,3),
explained_by_healthy_life_expectancy number(4,3),
explained_by_freedom_to_make_life_choices number(4,3),
explained_by_generosity number(4,3),
explained_by_perceptions_of_corruption number(4,3),
dystopia_residual number (4,3));
COPY INTO HAPPINESS
FROM @MANAGE_DB.public.stage_azure;
SELECT * FROM HAPPINESS;
Results
Chart
COUNTRY_NAME
REGIONAL_INDICATOR
LADDER_SCORE
STANDARD_ERROR
UPPERWHISKER
LOWERWHISKER
LOGGED_GDP
SOCIAL_SUPPORT
1 Finland Western Europe 7.842 0.032 7.904 7.780 10.775 0.954
2 Denmark Western Europe 7.620 0.035 7.687 7.552 10.933 0.954
3 Switzerland Western Europe 7.571 0.036 7.643 7.500 11.117 0.942
Query Details
Query duration 249ms
Rows 149
Query ID 01c0e829-0107-782c-0...


2025-12-02 8:16pm
S3_Integration
Load_S3_Data
Azure_Integration
Load_ADLS_Data
Databases
Worksheets
MANAGE_DB
EXTERNAL_STAGES
Stages
CSV_FOLDER
JSON_FOLDER
FILE_FORMATS
File Formats
CSV_FILEFORMAT
JSON_FILEFORMAT
INFORMATION_SCHEMA
PUBLIC
Tables
Stages
File Formats
FILEFORMAT_AZURE
FILEFORMAT_AZURE_JSON
RETAILDB
SNOWFLAKE
SNOWFLAKE_LEARNING_DB
SNOWFLAKE_SAMPLE_DATA
ACCOUNTADMIN
COMPUTE_WH (X-Small)
Share
MANAGE_DB.PUBLIC
Settings
Open in Workspaces
Code Versions
-- Alternative: Using a raw file table step
truncate table car_owner;
select * from car_owner;
create or replace table car_owner_raw (
raw variant);
COPY INTO car_owner_raw
FROM @MANAGE_DB.public.stage_azure;
SELECT * FROM car_owner_raw;
INSERT INTO car_owner
(SELECT
$1:"Car Model"::STRING as car_model,
$1:"Car Model Year"::INT as car_model_year,
$1:"car make"::STRING as car_make,
$1:"first_name"::STRING as first_name,
$1:"last_name"::STRING as last_name
FROM car_owner_raw) ;
select * from car_owner;
Results
Chart
CAR_MODEL
CAR_MODEL_YEAR
CAR_MAKE
FIRST_NAME
LAST_NAME
1 C-Class 2001 Mercedes-Benz Bronny Bernardotte
2 Sonata 2007 Hyundai Walker Moorwood
3 Type 2 1987 Volkswagen Neils Grichukhanov
4 DeVille 2003 Cadillac Roda Shute
5 xD 2012 Scion Moria Nann
Query Details
Query duration 456ms
Rows 324
Query ID 01c0e832-0107-794c-0...
Show more