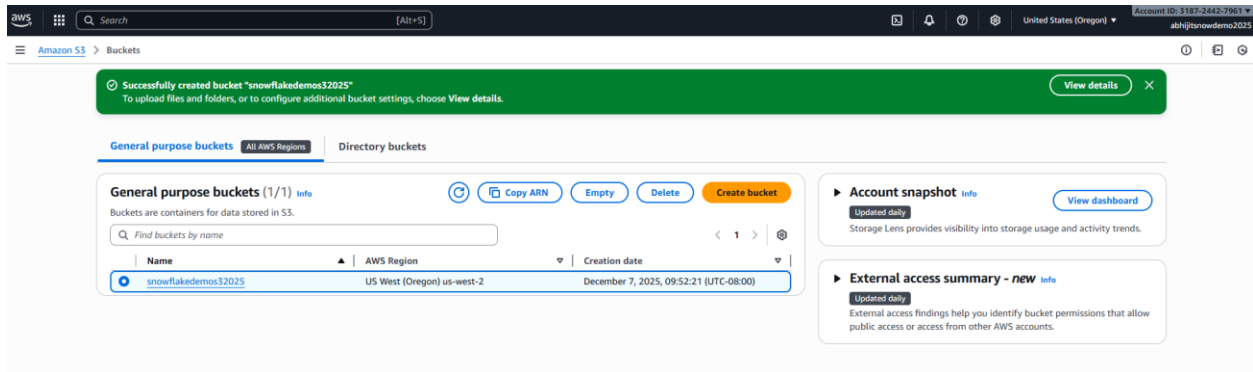


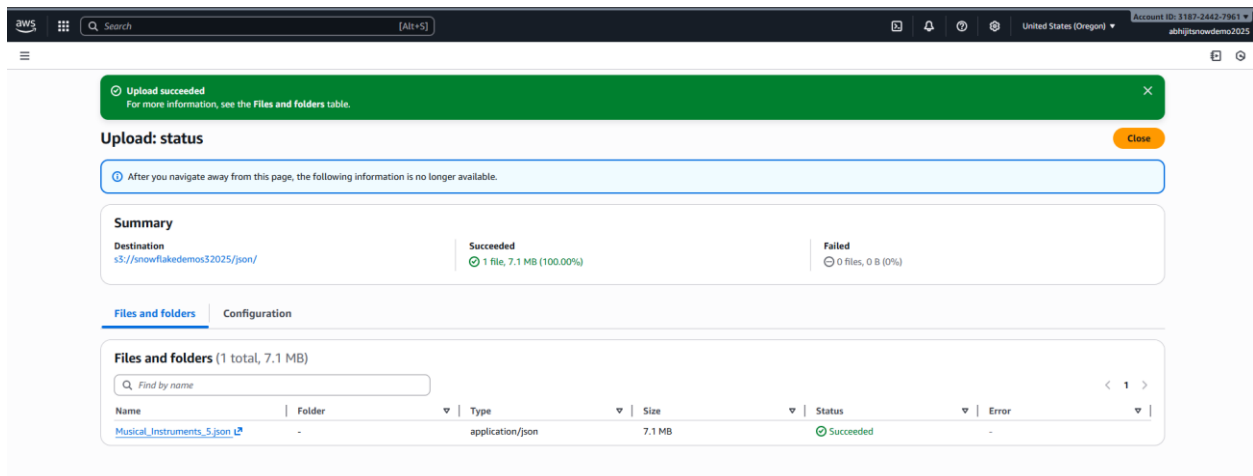
Snowflake Demo AWS Integration

AWS Connection Setup:

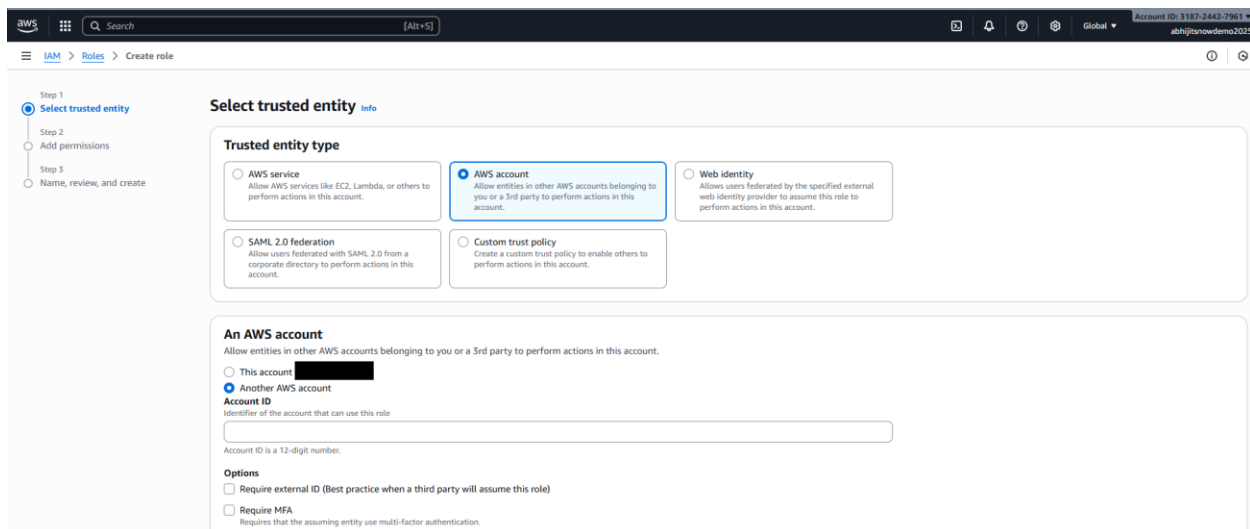
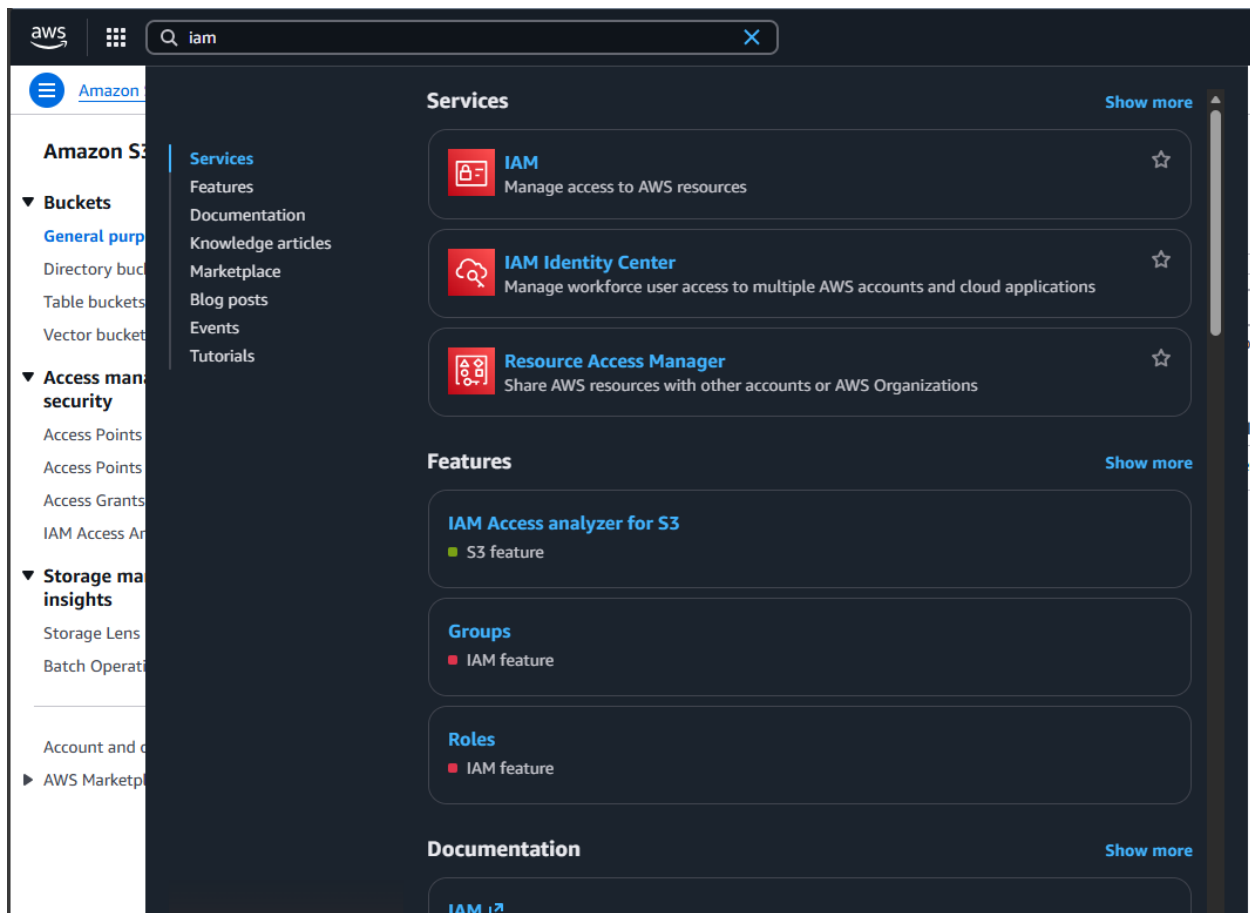
Create AWS Account - > Create AWS S3 Bucket



Upload files



Create policies to load data from S3 to Snowflake



IAM > Roles > Create role

Step 3
Name, review, and create

Trusted entity type

☐ AWS service
Allow AWS services like EC2, Lambda, or others to perform actions in this account.

☒ AWS account
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

☐ Web identity
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.

☐ SAML 2.0 federation
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.

☐ Custom trust policy
Create a custom trust policy to enable others to perform actions in this account.

An AWS account

Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.

☐ This account

☒ Another AWS account

Account ID
Identifier of the account that can use this role

Account ID is a 12-digit number.

Options

☒ Require external ID (Best practice when a third party will assume this role)
You can increase the security of your role by requiring an optional external identifier, which prevents "confused deputy" attacks. This is recommended if you do not own or have administrative access to the account that can assume this role. The external ID can include any characters that you choose. To assume this role, users must be in the trusted account and provide this exact external ID. [Learn more](#)

External ID

00000

Important: The console does not support using an external ID with the Switch Role feature. If you select this option, entities in the trusted account must use the API, CLI, or a custom federation proxy to make cross-account iam:AssumeRole calls. [Learn more](#)

☐ Require MFA
Requires that the assuming entity use multi-factor authentication.

aws IAM > Roles > Create role

Step 1
Select trusted entity

Step 2
Add permissions

Step 3
Name, review, and create

Add permissions

Permissions policies (1/1105)

Choose one or more policies to attach to your new role.

Filter by Type: All types 14 matches

Policy name	Type	Description
<input type="checkbox"/> AmazonDMSRedshiftS3Role	AWS managed	Provides access to manage S3 settings...
<input checked="" type="checkbox"/> AmazonS3FullAccess	AWS managed	Provides full access to all buckets via t...

```

1 // Create storage integration object
2
3 create or replace storage integration s3_int
4   TYPE = EXTERNAL_STAGE
5   STORAGE_PROVIDER = S3
6   ENABLED = TRUE
7   STORAGE_AWS_ROLE_ARN = 'arn:aws:iam::role/snowflake-access-role'
8   STORAGE_ALLOWED_LOCATIONS = ('s3://snowflakedemos32025/csv/', 's3://snowflakedemos32025/json/')
9   COMMENT = 'This is an optional comment';
10
11
12 // See storage integration properties to fetch external_id so we can update it in S3
13 DESC integration s3_int;

```

Get the user-id and external-id from Snowflake Integration Object (STORAGE_AWS_IAM_USER_ARN and Storage_AWS_External_ID)

```

11
12 // See storage integration properties to fetch external_id so we can update it in S3
13 DESC integration s3_int;

```

Results Chart


	property	property_type	property_value	property_default
1	ENABLED	Boolean	true	false
2	STORAGE_PROVIDER	String	S3	
3	STORAGE_ALLOWED_LOCATIONS	List	s3://snowflakedemos32025/csv/,s3://snowflakedemo	[]
4	STORAGE_BLOCKED_LOCATIONS	List		[]
5	STORAGE_AWS_IAM_USER_ARN	String	arn:aws:iam::[REDACTED]:[REDACTED]ser/externalstages/c	
6	STORAGE_AWS_ROLE_ARN	String	arn:aws:iam::[REDACTED]:[REDACTED]ole/snowflake-acces	
7	STORAGE_AWS_EXTERNAL_ID	String	[REDACTED]	TVnu
8	USE_PRIVATELINK_ENDPOINT	Boolean	false	false
9	COMMENT	String	This an optional comment	

```

9 // Use Copy command
10 COPY INTO RETAILDB.PUBLIC.movie_titles
11 FROM @MANAGE_DB.external_stages.csv_folder
12
13
14
15
16
17
18 // Create file format object
19 CREATE OR REPLACE file format MANAGE_DB.file_formats.csv_fileformat
20 type = csv
21 field delimiter = ','

```

Results Chart



Number of columns in file (26) does not match that of the corresponding table (12), use file format option error_on_column_count_mismatch=false to ignore this error

File 'csv/netflix_titles.csv', line 3, character 1
Row 1 starts at line 2, column "MOVIE_TITLES"[26]
If you would like to continue loading when an error is encountered, use other values such as 'SKIP_FILE' or 'CONTINUE' for the ON_ERROR option. For more information on loading options, please run 'info loading_data' in a SQL client.

```

57 COPY INTO RETAILDB.PUBLIC.movie_titles
58 FROM @MANAGE_DB.external_stages.csv_folder
59
60

```

Results Chart

	file	status	# rows_parsed	# rows_loaded	# error_limit	# errors_seen	first_error	first_error_line	first_e
1	s3://snowflakedemos3	LOADED	7787	7787	1	0	null	null	

```

60
61 SELECT * FROM RETAILDB.PUBLIC.movie_titles
62
63

```

Results Chart

	SHOW_ID	TYPE	TITLE	DIRECTOR	CAST	COUNTRY	DATE_ADDED	RELEASE_YEAR	
1	s1	TV Show	3%	null	João Miguel, Bianca Comparato, Michel Gomes, Rodolfo Val	Brazil	August 14, 2020	2020	TV-I
2	s2	Movie	7:19	Jorge Michel Grau	Demian Bichir, Héctor Bonilla, Oscar Serrano, Azalia Ortiz, C	Mexico	December 23, 2016	2016	TV-I
3	s3	Movie	23:59	Gilbert Chan	Tedd Chan, Stella Chung, Henley Hill, Lawrence Koh, Tommy	Singapore	December 20, 2018	2011	R
4	s4	Movie	9	Shane Acker	Elijah Wood, John C. Reilly, Jennifer Connelly, Christopher P	United States	November 16, 2017	2009	PG-
5	s5	Movie	21	Robert Luketic	Jim Sturgess, Kevin Spacey, Kate Bosworth, Aaron Yoo, Liz	United States	January 1, 2020	2008	PG-
6	s6	TV Show	46	Serdar Akar	Erdal Beşikçioğlu, Yasemin Allen, Melis Birkan, Saygin Soysa	Turkey	July 1, 2017	2016	TV-I
7	s7	Movie	122	Yasir Al Yasiri	Amina Khalil, Ahmed Dawood, Tarek Lotfy, Ahmed El Fishaw	Egypt	June 1, 2020	2019	TV-I
8	s8	Movie	187	Kevin Reynolds	Samuel L. Jackson, John Heard, Kelly Rowan, Clifton Collins	United States	November 1, 2019	1997	R

Query Details

Query duration 394ms

Rows 78K

Query ID 01c0e57d-0107-7898-0...

Show more

SHOW_ID 100% filled

Execute

1

2

3

4

5

6

7

8

9

10

11

12

```
SELECT
$1:asin,
$1:helpful,
$1:overall,
$1:reviewText,
$1:reviewTime,
$1:reviewerID,
$1:reviewName,
$1:summary,
$1:unixReviewTime
FROM @MANAGE_DB.external_stages.json_folder;
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

SNOWFLAKE

SNOWFLAKE

COMMENTS

Displaying 10,000 of 10,261 rows

	\$1:ASIN	\$1:HELPFUL	\$1:OVERALL	\$1:REVIEWTEXT	\$1:REVIEWTIME	\$1:REVIEWERID	\$1:REVIEWTIME_2	\$1:REVIEWERNAME
1	1384719342	[0,0]	5	Not much to write about	02 28, 2014	A2IBPI20UJZIR0U	02 28, 2014	cass
2	1384719342	[13,14]	5	The product does exactly	03 16, 2013	A14VAT5EAX3D95	03 16, 2013	Jake
3	1384719342	[1,1]	5	The primary job of this d	08 28, 2013	A195EZ5QDW3E21	08 28, 2013	Rick
4	1384719342	[0,0]	5	Nice windscreen protect	02 14, 2014	A2C00NNG1ZQQG2	02 14, 2014	Rust
5	1384719342	[0,0]	5	This pop filter is great. It	02 21, 2014	A94QL4C90B1AX	02 21, 2014	SEAN
6	B00004Y2UT	[0,0]	5	So good that I bought a	12 21, 2012	A2A039TZMZH9Y	12 21, 2012	Bill L
7	B00004Y2UT	[0,0]	5	I have used monster cab	01 19, 2014	A1UPZM995ZAH90	01 19, 2014	Brian

Query Details

01c0e5d0-0107-7898-0003-87da000207a6

Query Duration

5s

Rows

10,261

End time

Sun Dec 07 2025

Scanned

7.1MB (100%)

Role

ACCOUNTADMIN

Warehouse

COMPUTE_WH