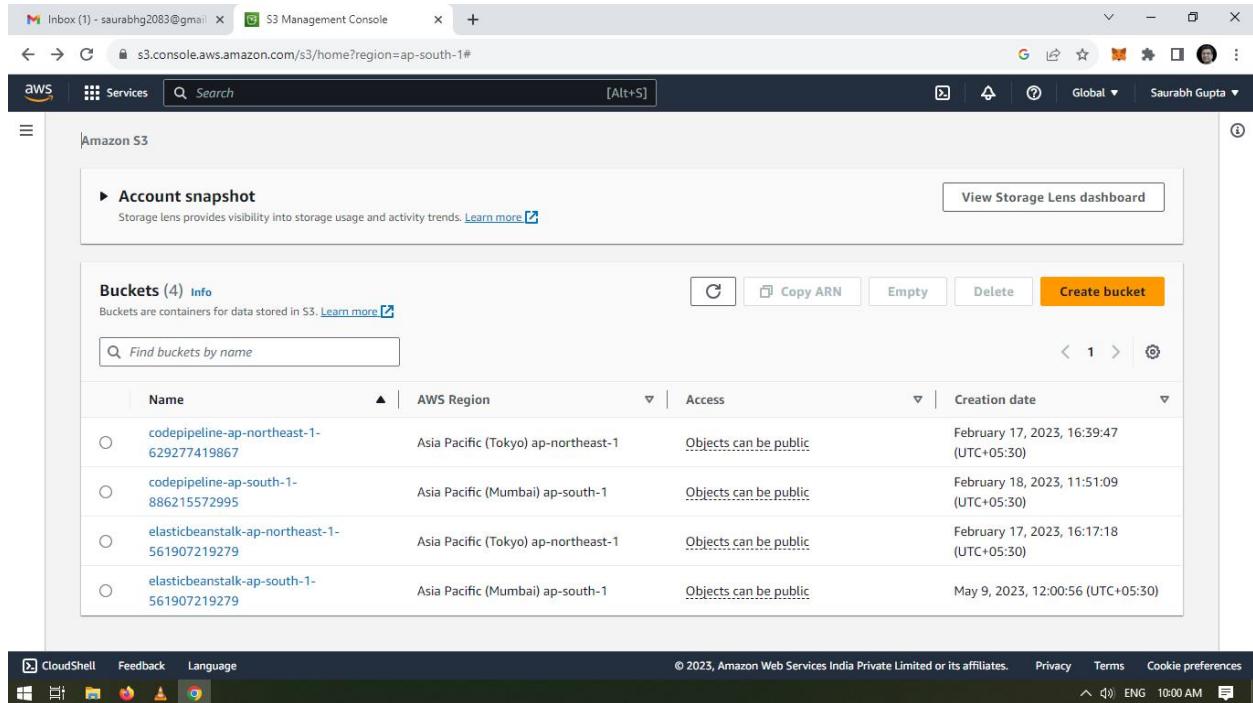
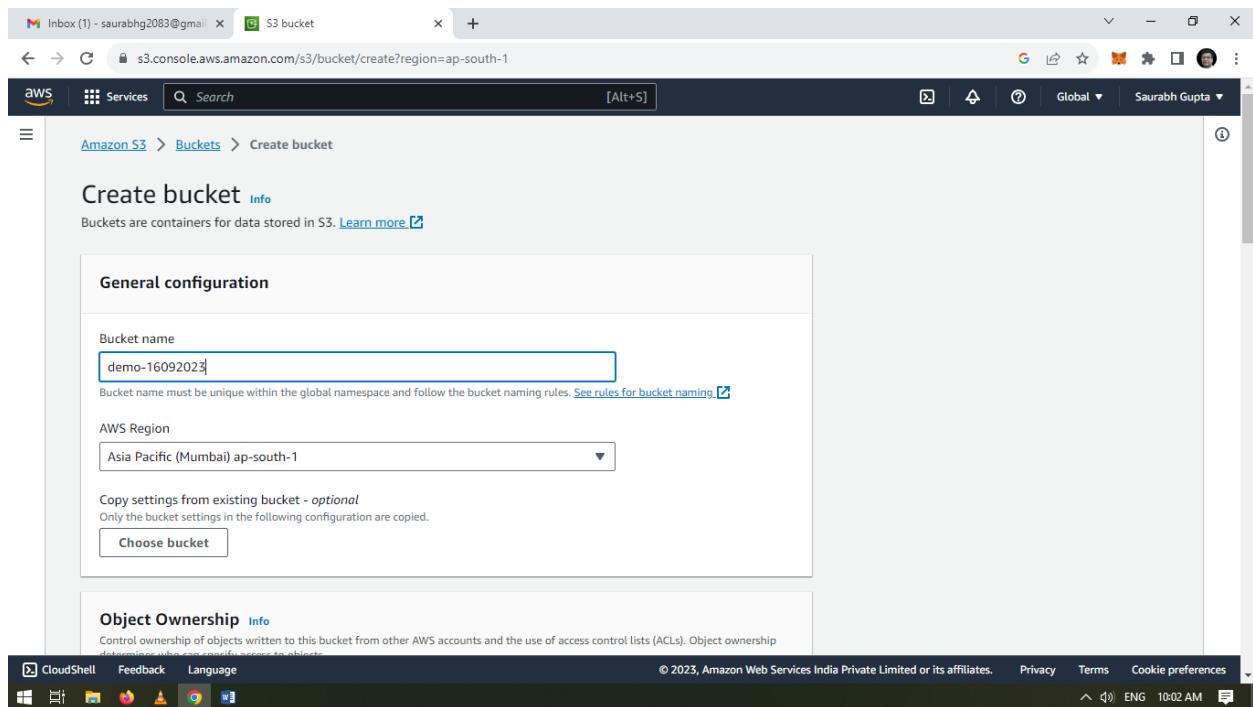


S3 Bucket



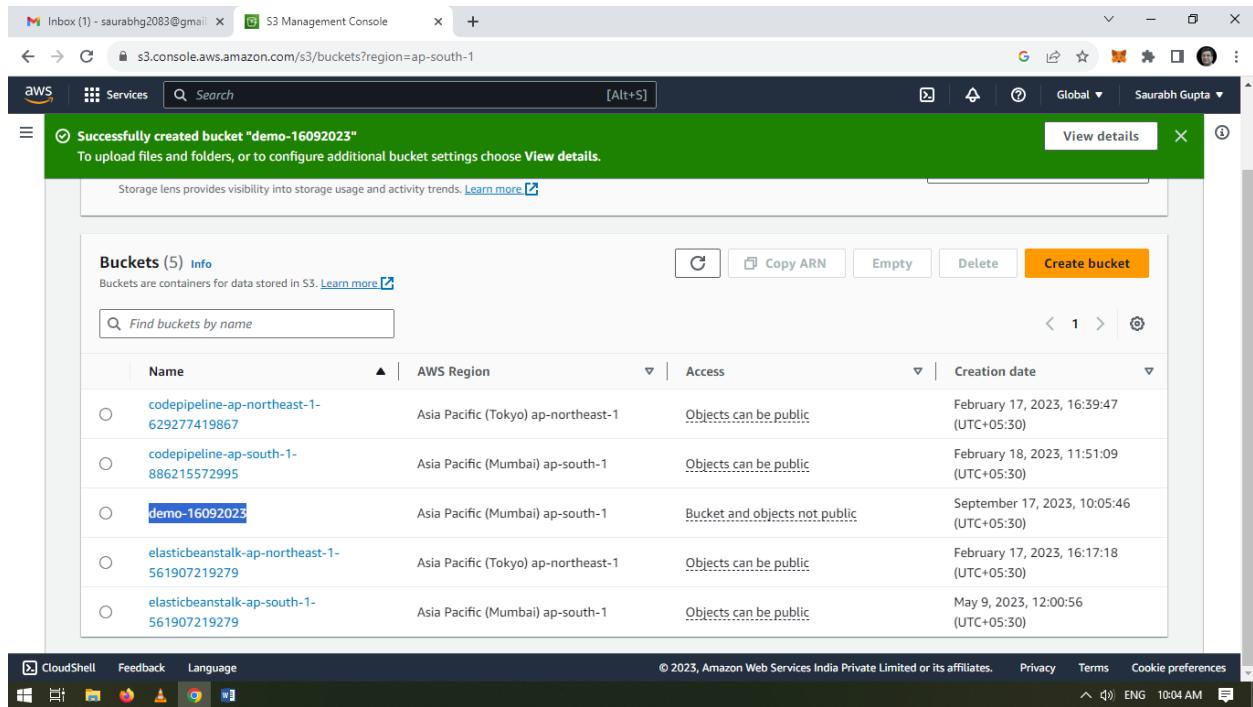
The screenshot shows the AWS S3 Management Console. At the top, there is a header bar with the AWS logo, a search bar, and a 'Services' dropdown. Below the header, the 'Amazon S3' service is selected. The main content area is titled 'Account snapshot' with a sub-section 'Buckets (4)'. A table lists four buckets: 'codepipeline-ap-northeast-1-629277419867', 'codepipeline-ap-south-1-886215572995', 'elasticbeanstalk-ap-northeast-1-561907219279', and 'elasticbeanstalk-ap-south-1-561907219279'. Each row includes columns for Name, AWS Region, Access, and Creation date. The 'Access' column shows 'Objects can be public' for all buckets. The 'Creation date' column shows various dates and times. At the bottom of the page, there are links for CloudShell, Feedback, Language, and a footer with copyright information and links for Privacy, Terms, and Cookie preferences.

Create Bucket



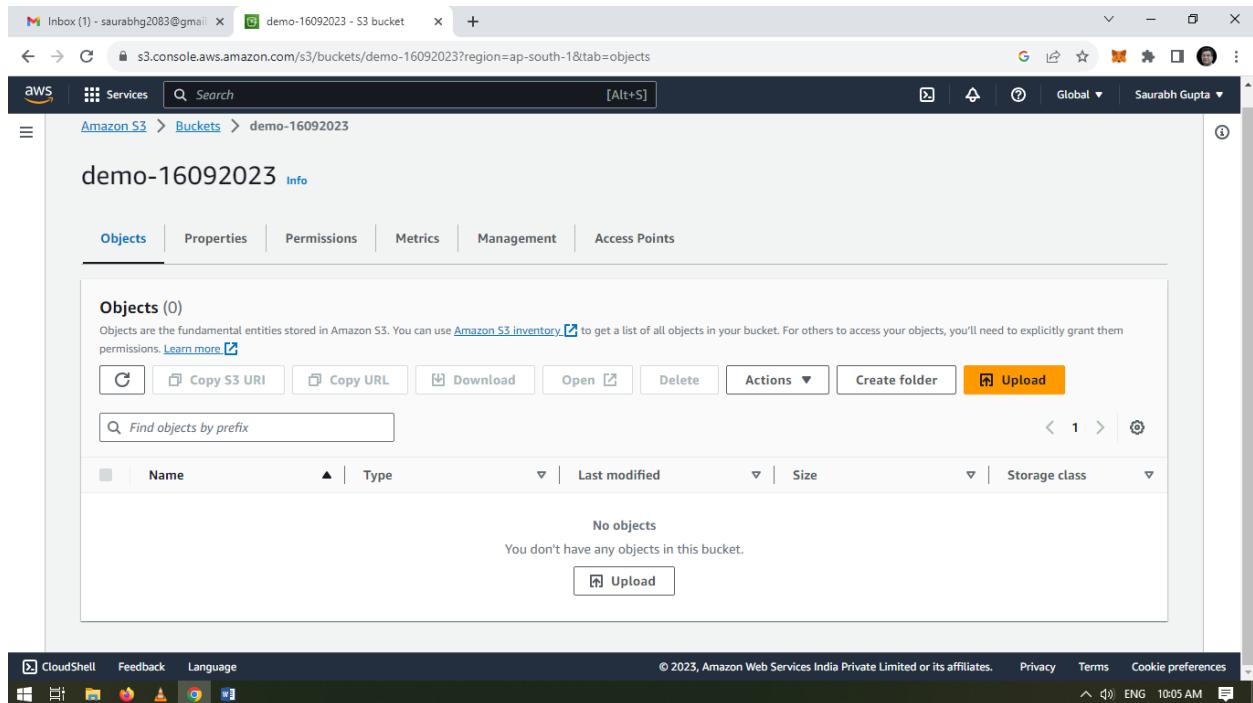
The screenshot shows the 'Create bucket' configuration page in the AWS S3 Management Console. The header is identical to the previous screenshot. The main content is titled 'Create bucket' with a sub-section 'General configuration'. It includes fields for 'Bucket name' (set to 'demo-16092023'), 'AWS Region' (set to 'Asia Pacific (Mumbai) ap-south-1'), and a 'Copy settings from existing bucket - optional' section with a 'Choose bucket' button. Below this is an 'Object Ownership' section with a note about controlling ownership of objects. At the bottom, there are links for CloudShell, Feedback, Language, and a footer with copyright information and links for Privacy, Terms, and Cookie preferences.

Bucket Created



The screenshot shows the AWS S3 Management Console with a green success message at the top: "Successfully created bucket 'demo-16092023'". Below this, a table lists five buckets, including the newly created one. The table columns are Name, AWS Region, Access, and Creation date. The newly created bucket, "demo-16092023", is highlighted in blue.

Name	AWS Region	Access	Creation date
codepipeline-ap-northeast-1-629277419867	Asia Pacific (Tokyo) ap-northeast-1	Objects can be public	February 17, 2023, 16:39:47 (UTC+05:30)
codepipeline-ap-south-1-886215572995	Asia Pacific (Mumbai) ap-south-1	Objects can be public	February 18, 2023, 11:51:09 (UTC+05:30)
demo-16092023	Asia Pacific (Mumbai) ap-south-1	Bucket and objects not public	September 17, 2023, 10:05:46 (UTC+05:30)
elasticbeanstalk-ap-northeast-1-561907219279	Asia Pacific (Tokyo) ap-northeast-1	Objects can be public	February 17, 2023, 16:17:18 (UTC+05:30)
elasticbeanstalk-ap-south-1-561907219279	Asia Pacific (Mumbai) ap-south-1	Objects can be public	May 9, 2023, 12:00:56 (UTC+05:30)



The screenshot shows the AWS S3 Management Console for the bucket "demo-16092023". The top navigation bar shows the bucket name. The main view is the "Objects" tab, which displays a table with one row: "No objects". A message below the table states, "You don't have any objects in this bucket." At the bottom of the table, there is a "Upload" button.

Inbox (1) - saurabhg2083@gmail.com S3 Management Console

s3.console.aws.amazon.com/s3/upload/demo-16092023?region=ap-south-1

aws Services Search [Alt+S]

Uploading 56%

Total remaining: 2 files: 6.9 MB(64.39%)
Estimated time remaining: a few seconds
Transfer rate: 546.1 KB/s

Cancel

Upload: status

The information below will no longer be available after you navigate away from this page.

Summary

Destination	Succeeded	Failed
s3://demo-16092023	6 files, 3.8 MB (35.61%)	0 files, 0 B (0%)

Files and folders Configuration

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Inbox (1) - saurabhg2083@gmail.com S3 Management Console

s3.console.aws.amazon.com/s3/upload/demo-16092023?region=ap-south-1

aws Services Search [Alt+S]

Drag and drop files and folders you want to upload here, or choose Add files or Add folder.

Files and folders (8 Total, 10.7 MB)

All files and folders in this table will be uploaded.

Find by name

<input type="checkbox"/>	Name	Folder	Type	Size
<input type="checkbox"/>	MavenMarket_Calen...	-	text/csv	7.8 KB
<input type="checkbox"/>	MavenMarket_Custo...	-	text/csv	1.5 MB
<input type="checkbox"/>	MavenMarket_Produ...	-	text/csv	101.8 KB
<input type="checkbox"/>	MavenMarket_Regio...	-	text/csv	2.8 KB
<input type="checkbox"/>	MavenMarket_Retur...	-	text/csv	138.2 KB
<input type="checkbox"/>	MavenMarket_Store...	-	text/csv	2.8 KB
<input type="checkbox"/>	MavenMarket_Trans...	-	text/csv	2.9 MB
<input type="checkbox"/>	MavenMarket_Trans...	-	text/csv	6.1 MB

Remove Add files Add folder

Destination

CloudShell Feedback Language © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences ENG 10:05 AM

Uploading

Total remaining: 2 files: 6.9 MB(64.39%)
Estimated time remaining: a few seconds
Transfer rate: 546.1 KB/s

Cancel

Close

Upload: status

The information below will no longer be available after you navigate away from this page.

Summary

Destination	Succeeded	Failed
s3://demo-16092023	6 files, 3.8 MB (35.61%)	0 files, 0 B (0%)

Files and folders Configuration

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CloudShell Feedback Language © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

Upload succeeded

View details below.

Upload: status

The information below will no longer be available after you navigate away from this page.

Summary

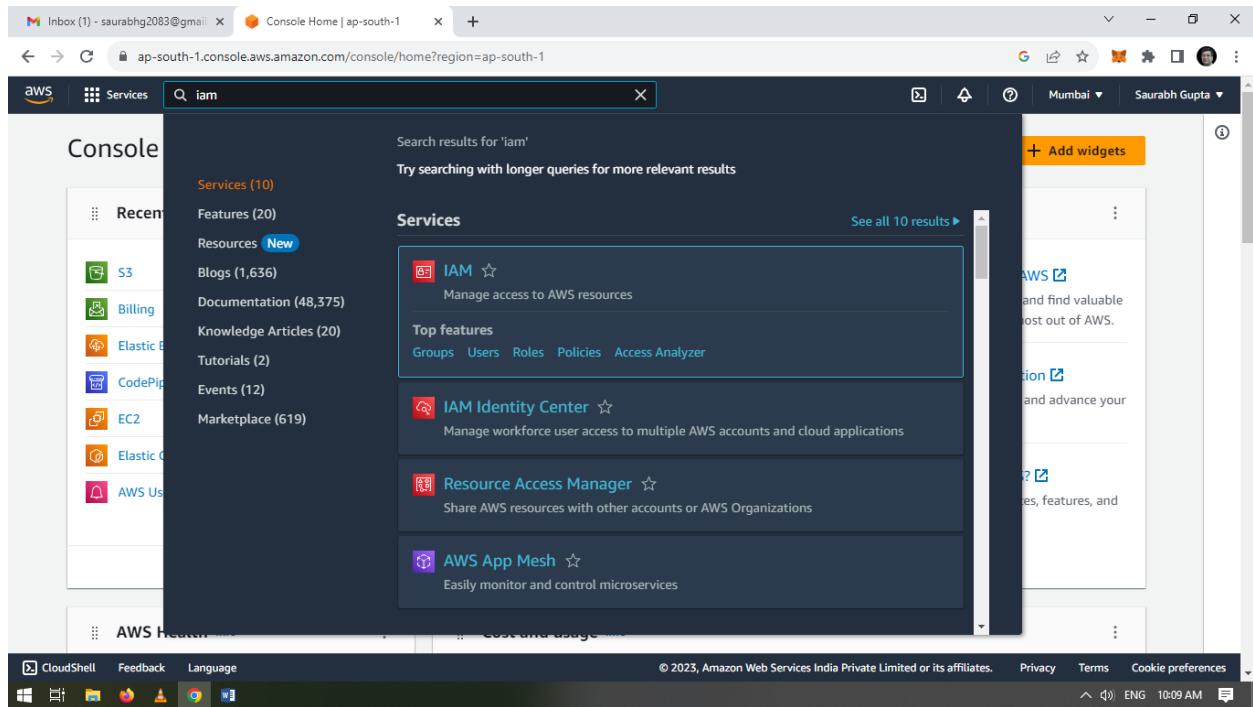
Destination	Succeeded	Failed
s3://demo-16092023	8 files, 10.7 MB (100.00%)	0 files, 0 B (0%)

Files and folders (8 Total, 10.7 MB)

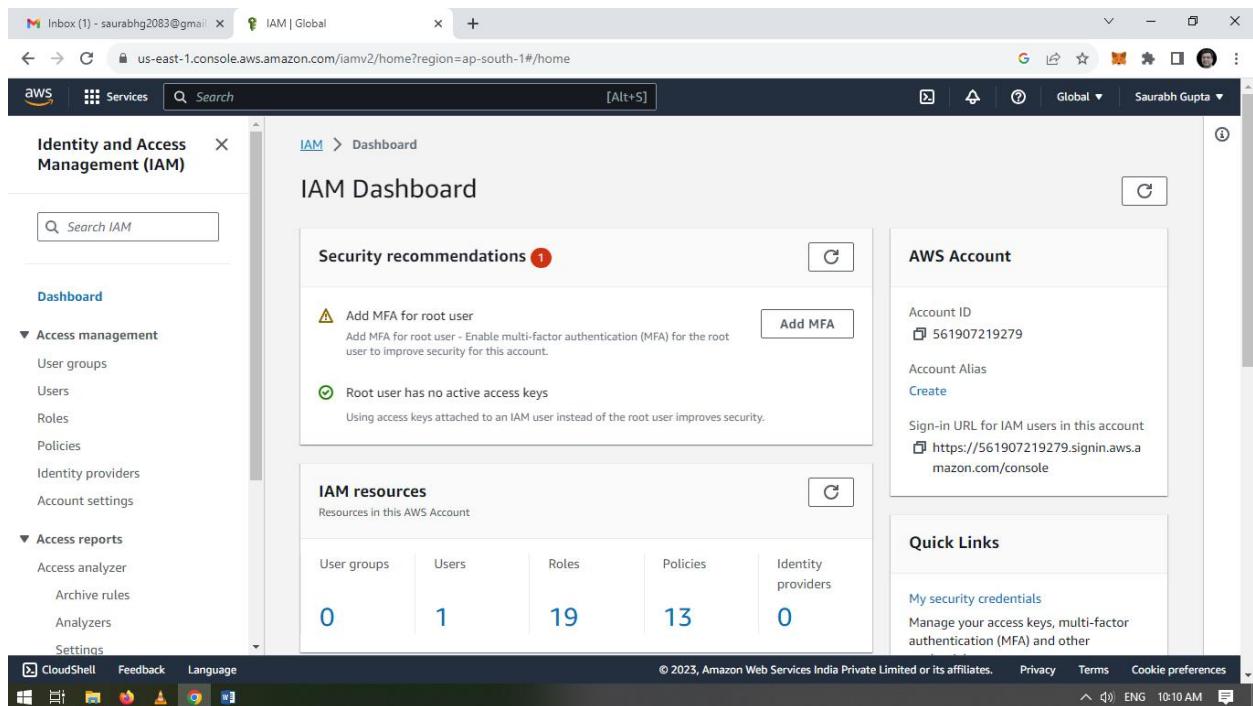
Find by name

CloudShell Feedback Language © 2023, Amazon Web Services India Private Limited or its affiliates. Privacy Terms Cookie preferences

Enter into IAM

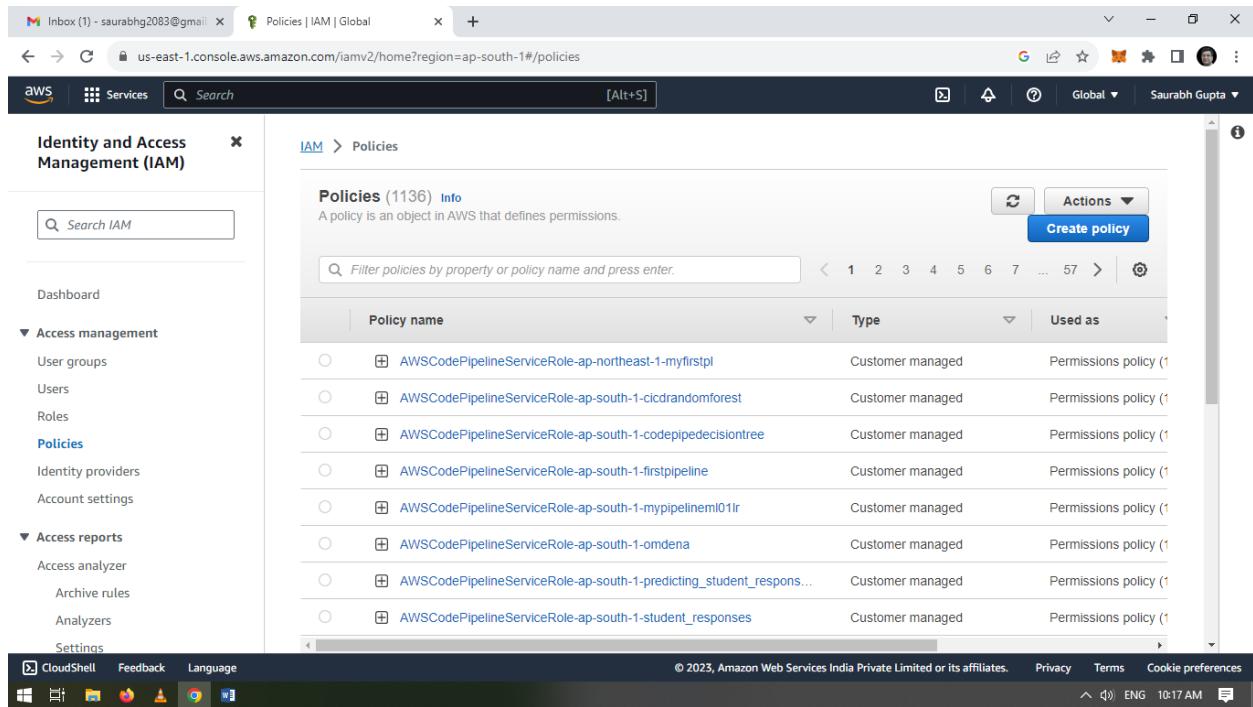


The screenshot shows the AWS console search results for 'iam'. The search bar at the top contains 'iam'. Below the search bar, a search result for 'IAM' is displayed, showing 'Manage access to AWS resources'. The 'Top features' section includes 'Groups', 'Users', 'Roles', 'Policies', and 'Access Analyzer'. Other search results include 'IAM Identity Center', 'Resource Access Manager', and 'AWS App Mesh'. The left sidebar shows recent services like S3, Billing, and EC2. The bottom navigation bar includes CloudShell, Feedback, Language, Privacy, Terms, and Cookie preferences.

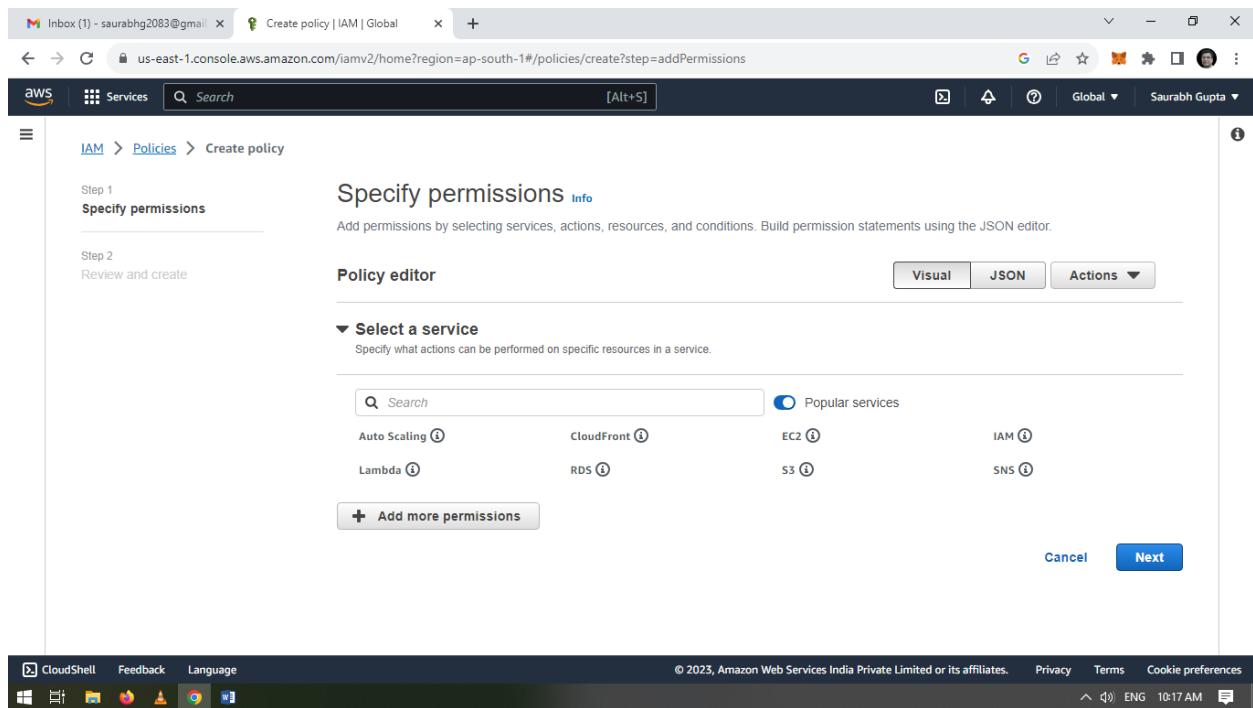


The screenshot shows the IAM Dashboard. The left sidebar includes 'Identity and Access Management (IAM)', 'Dashboard', 'Access management' (User groups, Users, Roles, Policies, Identity providers, Account settings), and 'Access reports' (Access analyzer, Archive rules, Analyzers, Settings). The main content area is the 'IAM Dashboard' with sections for 'Security recommendations' (Add MFA for root user, Root user has no active access keys) and 'IAM resources' (User groups: 0, Users: 1, Roles: 19, Policies: 13, Identity providers: 0). On the right, there is an 'AWS Account' section with Account ID (561907219279), Account Alias (Create), and a Sign-in URL (https://561907219279.signin.amazonaws.com/console). A 'Quick Links' section includes 'My security credentials'.

Create Policy



The screenshot shows the AWS IAM Policies page. The left sidebar is titled 'Identity and Access Management (IAM)' and includes sections for 'Dashboard', 'Access management' (User groups, Users, Roles, Policies), 'Access reports' (Access analyzer, Archive rules, Analyzers, Settings), and navigation links for CloudShell, Feedback, and Language. The main content area is titled 'Policies (1136) Info' and contains a table with columns 'Policy name', 'Type', and 'Used as'. The table lists several customer-managed permissions policies, each with a blue link to its details. A 'Create policy' button is located in the top right of the main content area.



The screenshot shows the 'Specify permissions' step of the 'Create policy' wizard. The left sidebar shows 'Step 1: Specify permissions' and 'Step 2: Review and create'. The main content area is titled 'Specify permissions Info' and contains a 'Policy editor' section. Under 'Select a service', there is a search bar and a list of services: Auto Scaling, CloudFront, EC2, IAM, Lambda, RDS, S3, and SNS. A 'Popular services' button is also present. At the bottom right are 'Cancel' and 'Next' buttons.

Inbox (2) Create pol... demo-160... s3 bucket pol... Bucket an... AWS-S3-B... Troublesh... Bucket pol... Amazon S3...

← → ↗ us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/policies/create?step=addPermissions

aws Services Search [Alt+S]

Specify permissions

Step 2 Review and create

Policy editor

Add permissions by selecting services, actions, resources, and conditions. Build permission statements using the JSON editor.

Visual JSON Actions ▾

```
1 "Version": "2012-10-17",
2 "Statement": [
3     {
4         "Effect": "Allow",
5         "Action": [
6             "s3:PutObject",
7             "s3:ListBucket",
8             "s3:GetObject",
9             "s3:GetObjectVersion",
10            "s3:DeleteObject",
11            "s3:DeleteObjectVersion",
12            "s3:DeleteObjectVersion",
13            "Resource": "arn:aws:s3:::demo-16092023/*"
14        ]
15    }
16 ]
```

Edit statement

Select a statement

Select an existing statement in the policy or add a new statement.

+ Add new statement

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CloudShell Feedback Language

ENG 10:31 AM

Inbox (1) Create policy demo-16092023 s3 bucket pol... Bucket and g... AWS-S3-B... Bucket pol... Amazon S3...

← → ↗ us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/policies/create?step=reviewAndCreate

aws Services Search [Alt+S]

Step 1 Review and create

Specify permissions

Review the permissions, specify details, and tags.

Step 2 Review and create

Policy details

Policy name

Enter a meaningful name to identify this policy.

demo_18092023

Maximum 128 characters. Use alphanumeric and '+-=,@_-' characters.

Description - optional

Add a short explanation for this policy.

this policy will be used to access user in the snowflake

Maximum 1,000 characters. Use alphanumeric and '+-=,@_-' characters.

Info This policy defines some actions, resources, or conditions that do not provide permissions. To grant access, policies must have an action that has an applicable resource or condition. For details, choose Show remaining. Learn more

Permissions defined in this policy **Edit**

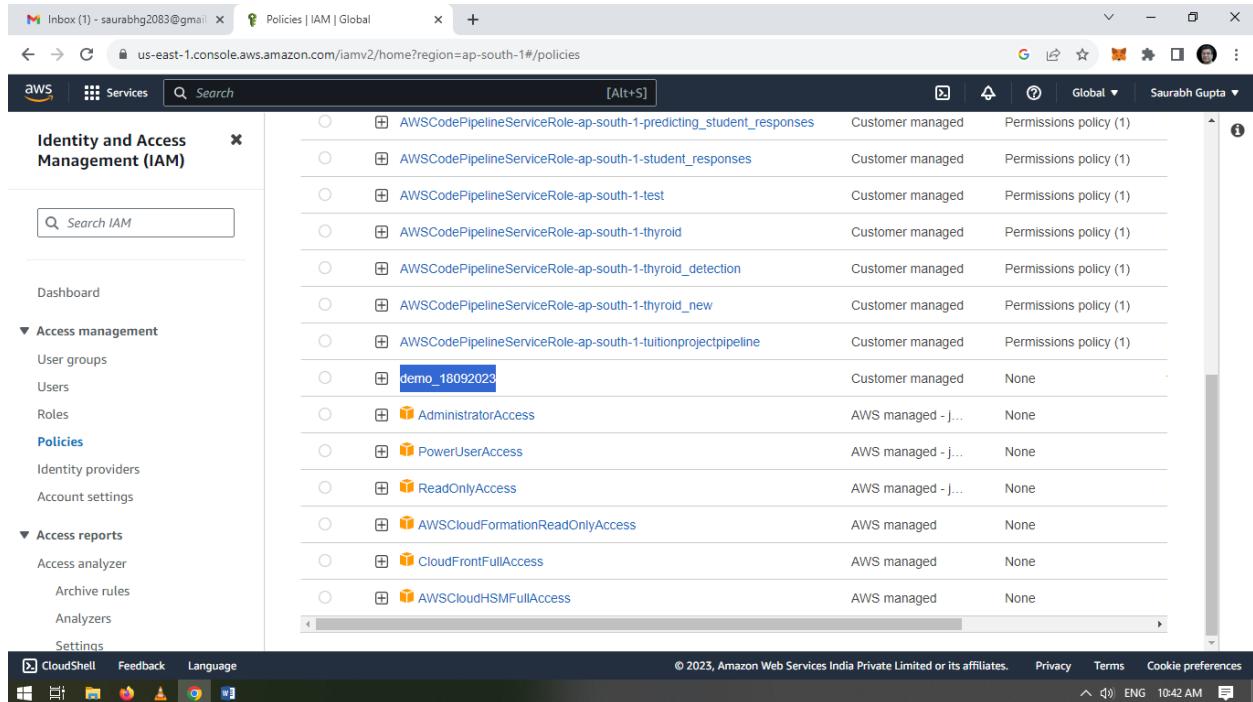
Permissions in the policy document specify which actions are allowed or denied.

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CloudShell Feedback Language

ENG 10:41 AM

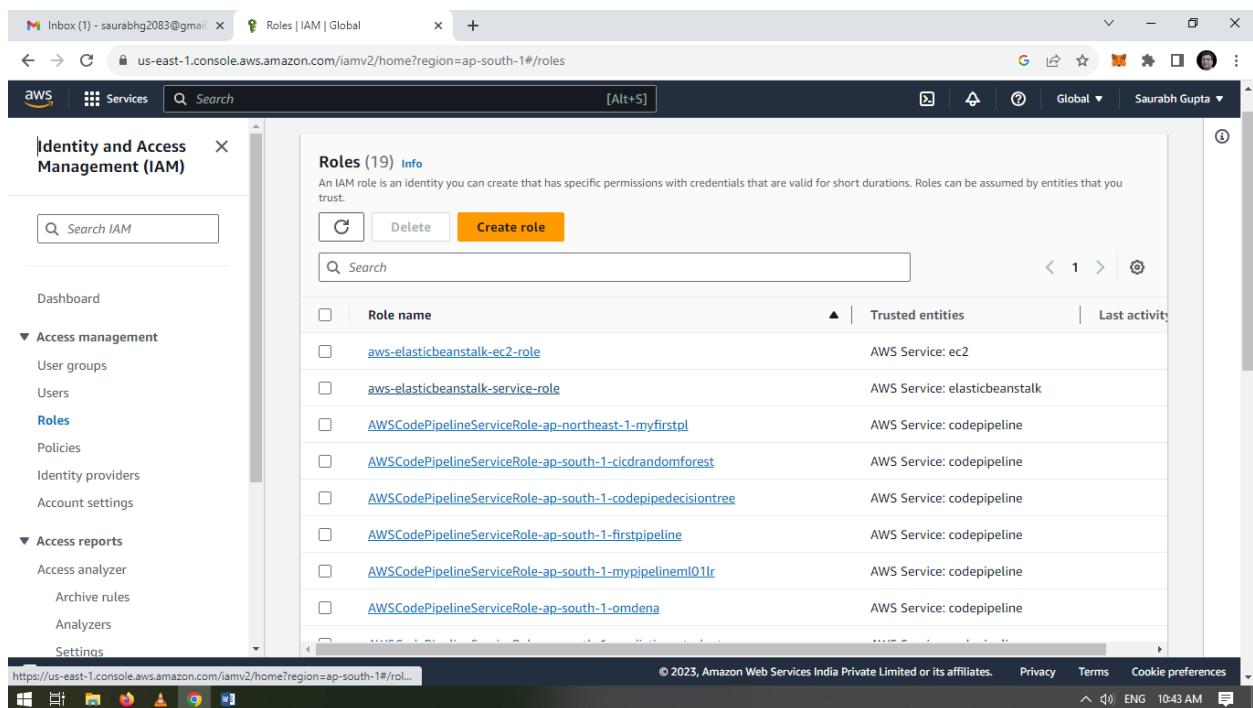


The screenshot shows the AWS IAM Policies page. The left sidebar is titled 'Identity and Access Management (IAM)' and includes sections for 'Access management' (User groups, Users, Roles, Policies), 'Access reports' (Access analyzer, Archive rules, Analyzers, Settings), and navigation links for CloudShell, Feedback, and Language. The main content area displays a table of roles:

Role Name	Type	Last Updated
AWSCodePipelineServiceRole-ap-south-1-predicting_student_responses	Customer managed	Permissions policy (1)
AWSCodePipelineServiceRole-ap-south-1-student_responses	Customer managed	Permissions policy (1)
AWSCodePipelineServiceRole-ap-south-1-test	Customer managed	Permissions policy (1)
AWSCodePipelineServiceRole-ap-south-1-thyroid	Customer managed	Permissions policy (1)
AWSCodePipelineServiceRole-ap-south-1-thyroid_detection	Customer managed	Permissions policy (1)
AWSCodePipelineServiceRole-ap-south-1-thyroid_new	Customer managed	Permissions policy (1)
AWSCodePipelineServiceRole-ap-south-1-tuitionprojectpipeline	Customer managed	Permissions policy (1)
demo_18092024	Customer managed	None
AdministratorAccess	AWS managed - j...	None
PowerUserAccess	AWS managed - j...	None
ReadOnlyAccess	AWS managed - j...	None
AWSCloudFormationReadOnlyAccess	AWS managed	None
CloudFrontFullAccess	AWS managed	None
AWSCloudHSMFullAccess	AWS managed	None

At the bottom, there are links for CloudShell, Feedback, Language, and a footer with copyright information and links for Privacy, Terms, and Cookie preferences.

Create Role



The screenshot shows the AWS IAM Roles page. The left sidebar is identical to the previous screenshot. The main content area displays a table of roles under the heading 'Roles (19) Info':

Role name	Trusted entities	Last activity
aws-elasticbeanstalk-ec2-role	AWS Service: ec2	
aws-elasticbeanstalk-service-role	AWS Service: elasticbeanstalk	
AWSCodePipelineServiceRole-ap-northeast-1-myfirstpl	AWS Service: codepipeline	
AWSCodePipelineServiceRole-ap-south-1-cicdrandomforest	AWS Service: codepipeline	
AWSCodePipelineServiceRole-ap-south-1-codedipedecisiontree	AWS Service: codepipeline	
AWSCodePipelineServiceRole-ap-south-1-firstpipeline	AWS Service: codepipeline	
AWSCodePipelineServiceRole-ap-south-1-mypipelinenl01r	AWS Service: codepipeline	
AWSCodePipelineServiceRole-ap-south-1-omdena	AWS Service: codepipeline	

At the bottom, there are links for CloudShell, Feedback, Language, and a footer with copyright information and links for Privacy, Terms, and Cookie preferences.

Inbox (1) - saurabhg2083@gmail.com Create role | IAM | Global us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/roles/create

IAM Services Search [Alt+S]

Step 1 Select trusted entity

Step 2 Add permissions

Step 3 Name, review, and create

Select trusted entity Info

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 Allows 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

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Inbox (1) - saurabhg2083@gmail.com Create role | IAM | Global us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/roles/create

IAM Services Search [Alt+S]

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

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
██████████

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.

Cancel **Next**

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Inbox (1) - saurabhg2083@gmail.com Create role | IAM | Global

us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/roles/create?trustedEntityType=AWS_ACCOUNT&isThirdParty=true&externalId=5...

Services Search [Alt+S]

IAM > Roles > Create role

Step 1 Select trusted entity

Step 2 Add permissions

Step 3 Name, review, and create

Add permissions Info

Permissions policies (890) Info

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

Filter by Type

Policy name	Type	Description
AdministratorAccess	AWS managed - job function	Provides full access to AWS services an...
AdministratorAccess-Amp...	AWS managed	Grants account administrative permis...
AdministratorAccess-AWS...	AWS managed	Grants account administrative permis...
AlexaForBusinessDeviceS...	AWS managed	Provide device setup access to AlexaFo...
AlexaForBusinessFullAccess	AWS managed	Grants full access to AlexaForBusiness ...
AlexaForBusinessGateway...	AWS managed	Provide gateway execution access to A...
AlexaForBusinessLifesize...	AWS managed	Provide access to Lifesize AVS devices

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Inbox (1) - saurabhg2083@gmail.com Create role | IAM | Global

us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/roles/create?trustedEntityType=AWS_ACCOUNT&isThirdParty=true&externalId=5...

Services Search [Alt+S]

IAM > Roles > Create role

Step 1 Select trusted entity

Step 2 Add permissions

Step 3 Name, review, and create

Add permissions Info

Permissions policies (1/890) Info

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

Filter by Type

Policy name	Type	Description
demo_18092023	Customer managed	this pol...

▶ Set permissions boundary - optional

Cancel Previous Next

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Inbox (1) - saurabhg2083@gmail.com Create role | IAM | Global

us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/roles/create?trustedEntityType=AWS_ACCOUNT&isThirdParty=true&externalId=5...

Services Search [Alt+S]

IAM > Roles > Create role

Step 1 Select trusted entity

Step 2 Add permissions

Step 3 Name, review, and create

Name, review, and create

Role details

Role name
Enter a meaningful name to identify this role.

Maximum 64 characters. Use alphanumeric and '+,-,_,@-' characters.

Description
Add a short explanation for this role.

Maximum 1000 characters. Use alphanumeric and '+,-,_,@-' characters.

Step 1: Select trusted entities Edit

Trust policy

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Inbox (1) - saurabhg2083@gmail.com Roles | IAM | Global

us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/roles

Identity and Access Management (IAM)

Search IAM

Dashboard

Access management

User groups

Users

Roles

Policies

Identity providers

Account settings

Access reports

Access analyzer

Archive rules

Analyzers

Settings

IAM > Roles

Roles (20) Info

An IAM role is an identity you can create that has specific permissions with credentials that are valid for short durations. Roles can be assumed by entities that you trust.

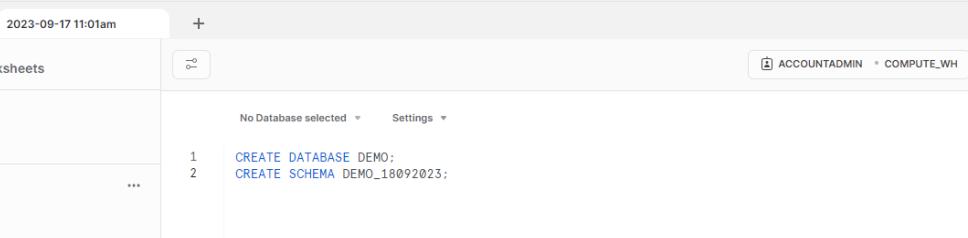
Create role

Role name	Trusted entities	Last activity
aws-elasticbeanstalk-ec2-role	AWS Service: ec2	34 minutes
aws-elasticbeanstalk-service-role	AWS Service: elasticbeanstalk	1 hour ago
AWSCodePipelineServiceRole-ap-northeast-1-myfirstpl	AWS Service: codepipeline	211 days ago
AWSCodePipelineServiceRole-ap-south-1-cicdrandomforest	AWS Service: codepipeline	126 days ago
AWSCodePipelineServiceRole-ap-south-1-codepipedecisiontree	AWS Service: codepipeline	126 days ago
AWSCodePipelineServiceRole-ap-south-1-firstpipeline	AWS Service: codepipeline	210 days ago

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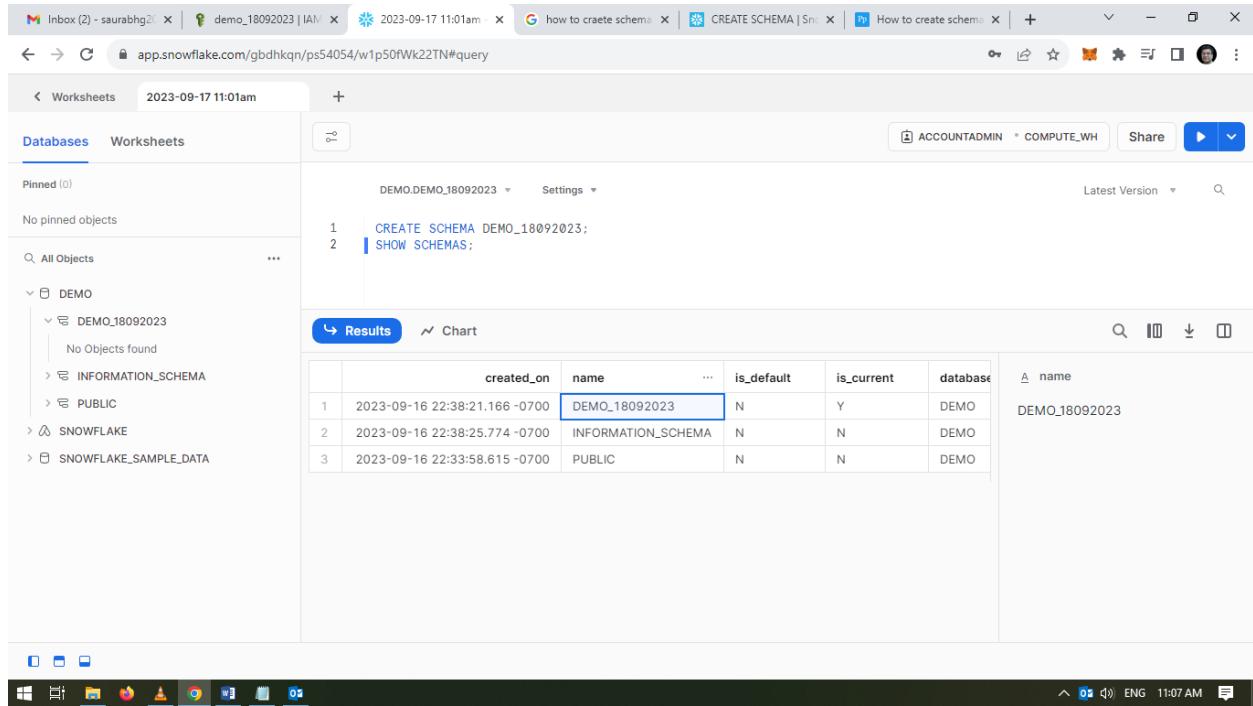
The screenshot shows the AWS IAM Roles page for the role 'demo_18092023'. The left sidebar is titled 'Identity and Access Management (IAM)' and includes sections for 'Dashboard', 'Access management' (User groups, Users, Roles, Policies, Identity providers, Account settings), and 'Access reports' (Access analyzer, Archive rules, Analyzers, Settings). The main content area shows the 'demo_18092023' role with its ARN: arn:aws:iam:561907219279:role/demo_18092023. It also displays the creation date (September 17, 2023, 10:51 (UTC+05:30)), last activity (None), and maximum session duration (1 hour). Below the summary, there are tabs for 'Permissions', 'Trust relationships', 'Tags', 'Access Advisor', and 'Revoke sessions'. The 'Permissions' tab is selected, showing a section for 'Permissions policies' with a note that up to 10 managed policies can be attached. Buttons for 'Simulate', 'Remove', and 'Add permissions' are available.

Snowflake



The screenshot shows the Snowflake UI with a new worksheet titled '2023-09-17 11:01am'. The left sidebar shows pinned objects and a list of all objects. The main area displays two database creation commands:

```
1 CREATE DATABASE DEMO;
2 CREATE SCHEMA DEMO_18092023;
```



The screenshot shows a Snowflake worksheet titled '2023-09-17 11:01am'. The left sidebar shows pinned objects, including a database named 'DEMO'. The main area displays the following SQL query:

```

1 CREATE SCHEMA DEMO_18092023;
2 SHOW SCHEMAS;

```

The 'Results' tab shows a table with the following data:

	created_on	name	...	is_default	is_current	database
1	2023-09-16 22:38:21.166 -0700	DEMO_18092023		N	Y	DEMO
2	2023-09-16 22:38:25.774 -0700	INFORMATION_SCHEMA		N	N	DEMO
3	2023-09-16 22:33:58.615 -0700	PUBLIC		N	N	DEMO

CREATE OR REPLACE STORAGE INTEGRATION aws_s3_int

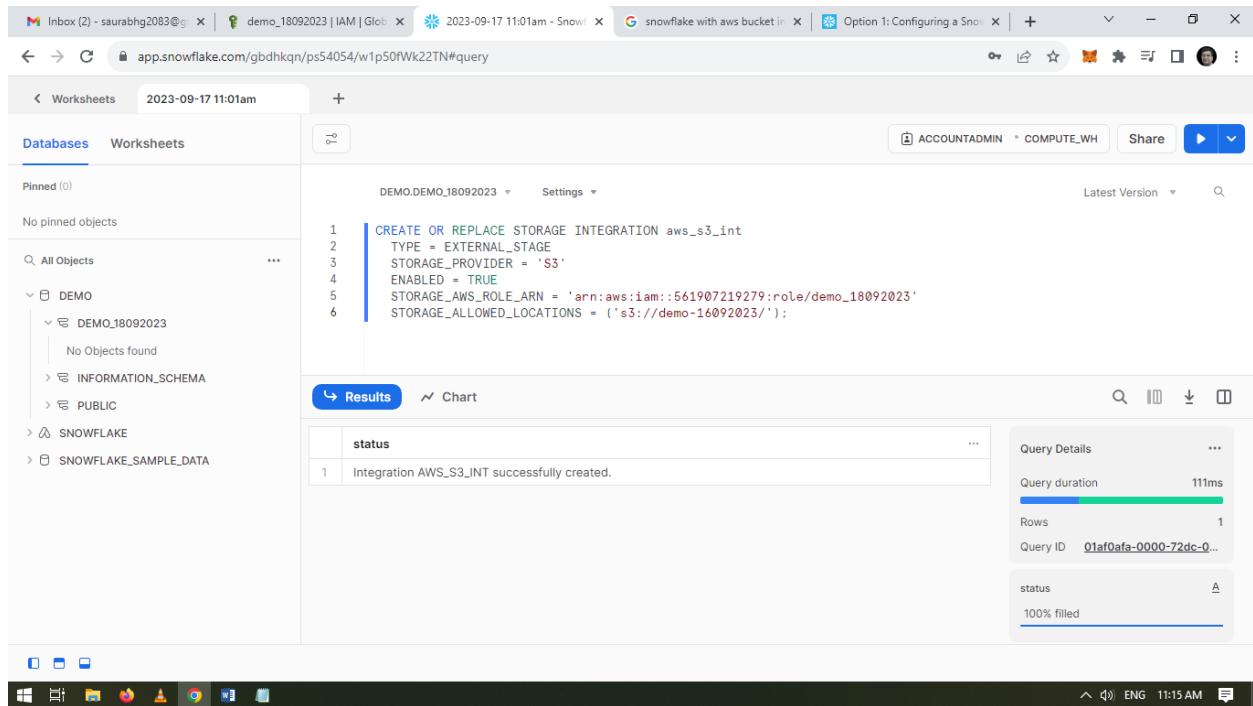
TYPE = EXTERNAL_STAGE

STORAGE_PROVIDER = 'S3'

ENABLED = TRUE

STORAGE_AWS_ROLE_ARN = 'arn:aws:iam::001234567890:role/myrole'

STORAGE_ALLOWED_LOCATIONS = ('s3://mybucket1/mypath1/', 's3://mybucket2/mypath2/');



Worksheet: 2023-09-17 11:01am

Databases Worksheets

Pinned (0)

No pinned objects

>All Objects

DEMO

- DEMO_18092023 (No Objects found)
- INFORMATION_SCHEMA
- PUBLIC

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

CREATE OR REPLACE STORAGE INTEGRATION aws_s3_int
 TYPE = EXTERNAL_STAGE
 STORAGE_PROVIDER = 'S3'
 ENABLED = TRUE
 STORAGE_AWS_ROLE_ARN = 'arn:aws:iam::561907219279:role/demo_18092023'
 STORAGE_ALLOWED_LOCATIONS = ('s3://demo-16092023/');

Results

status
Integration AWS_S3_INT successfully created.

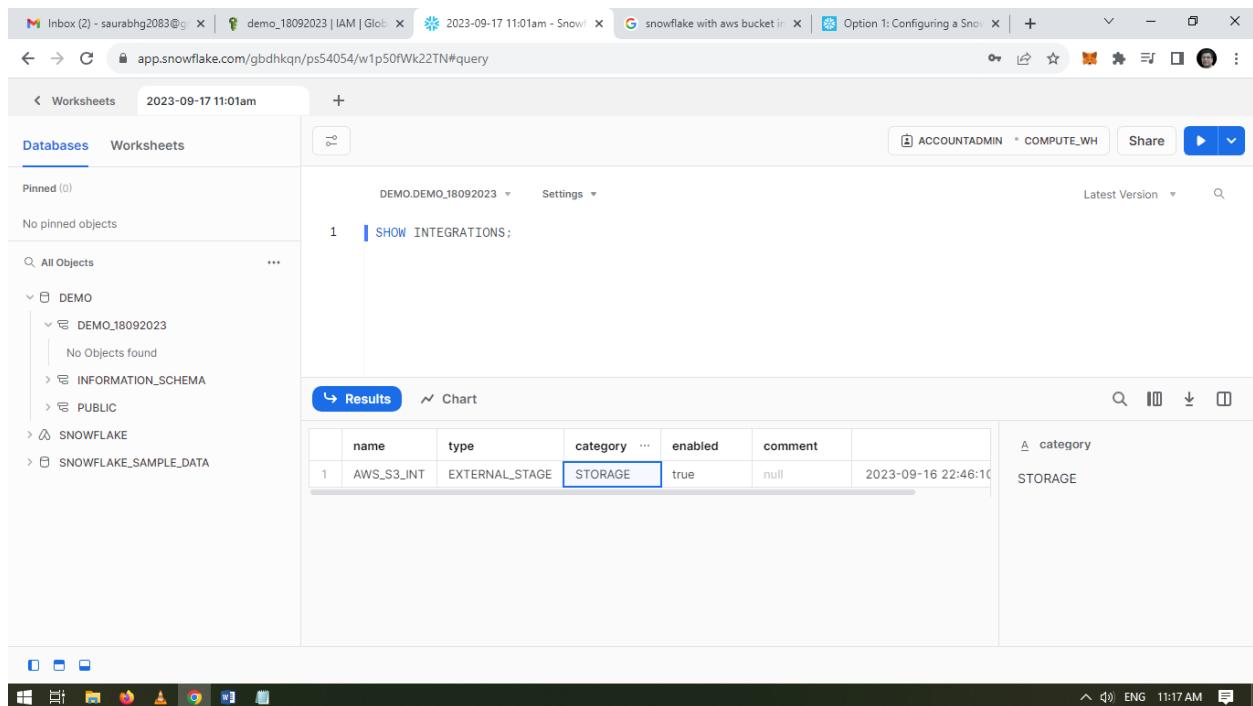
Query Details

- Query duration: 111ms
- Rows: 1
- Query ID: 01af0afa-0000-72dc-0...

status

100% filled

SHOW INTEGRATIONS;



Worksheet: 2023-09-17 11:01am

Databases Worksheets

Pinned (0)

No pinned objects

All Objects

DEMO

- DEMO_18092023 (No Objects found)
- INFORMATION_SCHEMA
- PUBLIC

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

SHOW INTEGRATIONS;

Results

name	type	category	...	enabled	comment	...
AWS_S3_INT	EXTERNAL_STAGE	STORAGE		true	null	2023-09-16 22:46:10

category

STORAGE

DEMO.DEMO_18092023

1 DESC INTEGRATION aws_s3_int;

property	property_type	property_value
ENABLED	Boolean	true
STORAGE_PROVIDER	String	S3
STORAGE_ALLOWED_LOCATIONS	List	s3://demo-16092023/
STORAGE_BLOCKED_LOCATIONS	List	
STORAGE_AWS_IAM_USER_ARN	String	arn:aws:iam::164743210672:user/784c0000-s
STORAGE_AWS_ROLE_ARN	String	arn:aws:iam::561907219279:role/demo_18092023
STORAGE_AWS_EXTERNAL_ID	String	ZL87126_SFCRole=2_zYrbVuExVxnQj430TI0tNulay
COMMENT	String	

Edit AWS TRUST Relationships for Snowflake User ARN

Last activity: -

Maximum session duration: 1 hour

Permissions | **Trust relationships** | Tags | Access Advisor | Revoke sessions

Trusted entities

Entities that can assume this role under specified conditions.

```

1  {
2    "Version": "2012-10-17",
3    "Statement": [
4      {
5        "Effect": "Allow",
6        "Principal": {
7          "AWS": "arn:aws:iam::561907219279:root"
8        },
9        "Action": "sts:AssumeRole",
10       "Condition": {
11         "StringEquals": {
12           "sts:ExternalId": "561907219279"
13         }
14       }
15     }
16   ]
17 }
  
```

Screenshot of a web browser showing a Snowflake query results page. The query is:

```
1 | DESC INTEGRATION aws_s3_int;
```

The results table shows the following data:

property	property_type	property_value
ED	Boolean	true
GE_PROVIDER	String	S3
GE_ALLOWED_LOCATIONS	List	s3://demo-16092023/
GE_BLOCKED_LOCATIONS	List	
GE_AWS_IAM_USER_ARN	String	arn:aws:iam::164743210672:user/784c0000-s
GE_AWS_ROLE_ARN	String	arn:aws:iam::561907219279:role/demo_18092023
GE_AWS_EXTERNAL_ID	String	ZLB7126_SFCRole=2_zYrbVuExVxnQj430TI0thuIayv4=
ENT	String	

Screenshot of the AWS IAM console showing the 'Edit trust policy' page for a role named 'demo_18092023'.

The trust policy JSON is:

```
1 | {
2 |     "Version": "2012-10-17",
3 |     "Statement": [
4 |         {
5 |             "Effect": "Allow",
6 |             "Principal": {
7 |                 "AWS": "arn:aws:iam::164743210672:user/784c0000-s"
8 |             },
9 |             "Action": "sts:AssumeRole",
10 |             "Condition": {
11 |                 "StringEquals": {
12 |                     "sts:ExternalId": "ZLB7126_SFCRole=2_zYrbVuExVxnQj430TI0thuIayv4="
13 |                 }
14 |             }
15 |         }
16 |     ]
17 | }
```

The 'Edit statement' panel shows the following configuration:

- Add actions for STS**: A search bar with 'Filter actions' and a checkbox for 'All actions (sts:*)'.
- Access level - read**: A list of actions: GetAccessKeyInfo, GetCallerIdentity, GetFederationToken, GetServiceBearerToken, GetSessionToken.
- Access level - read or write**: A list of actions: AssumeRole (checked), AssumeRoleWithAWSKey, AssumeRoleWithWebIdentity.

Inbox (2) - saurabhg2083@gmail.com | demo_18092023 | IAM | Global | 2023-09-17 11:01am - Snowflake | Option 1: Configuring a Snowflake | +

us-east-1.console.aws.amazon.com/iamv2/home?region=ap-south-1#/roles/details/demo_18092023?section=trust_relationships

aws Services Search [Alt+S]

Identity and Access Management (IAM)

Trust policy updated. 1 hour

Permissions Trust relationships Tags Access Advisor Revoke sessions

Trusted entities Entities that can assume this role under specified conditions. Edit trust policy

```
1 [ { "Version": "2012-10-17", "Statement": [ { "Effect": "Allow", "Principal": { "AWS": "arn:aws:iam::164743210672:user/784c0000-s" }, "Action": "sts:AssumeRole", "Condition": { "StringEquals": { "sts:ExternalId": "ZL87126_SFCRole=2_zYrbVuExVxnQj430TI0tNuIayv4=" } } } ] }
```

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Inbox (2) - saurabhg2083@gmail.com | demo_18092023 | IAM | Global | 2023-09-17 11:01am - Snowflake | Option 1: Configuring a Snowflake | +

app.snowflake.com/gbdhkqn/ps54054/w1p50fWk22TN#query

Worksheets 2023-09-17 11:01am +

Databases Worksheets

Pinned (0)

No pinned objects

Q All Objects ...

DEMO

- DEMO_18092023
 - No Objects found
 - INFORMATION_SCHEMA
 - PUBLIC
- SNOWFLAKE
- SNOWFLAKE_SAMPLE_DATA

ACCOUNTADMIN * COMPUTE_WH Share

DESC INTEGRATION aws_s3_int;

GRANT USAGE ON INTEGRATION aws_s3_int TO ROLE accountadmin;

Results Chart

status
1 Statement executed successfully.

Query Details

status 100% filled

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Inbox (2) - saurabhg2083@gmail.com | demo_18092023 | IAM | Global | 2023-09-17 11:01am - Snowflake | Copying Data from an S3 Stage | +

← → C app.snowflake.com/gbdhkqn/ps54054/w1p50fWk22TN#query

Worksheets 2023-09-17 11:01am +

Databases Worksheets

Pinned (0)

No pinned objects

Q All Objects ...

DEMO

- DEMO_18092023
 - No Objects found
- INFORMATION_SCHEMA
- PUBLIC

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

DEMO.DEMO_18092023 Settings

Latest Version v

CREATE OR REPLACE FILE FORMAT demo_format
type='CSV'
skip_header=1;

Results Chart

status
1 File format DEMO_FORMAT successfully created.

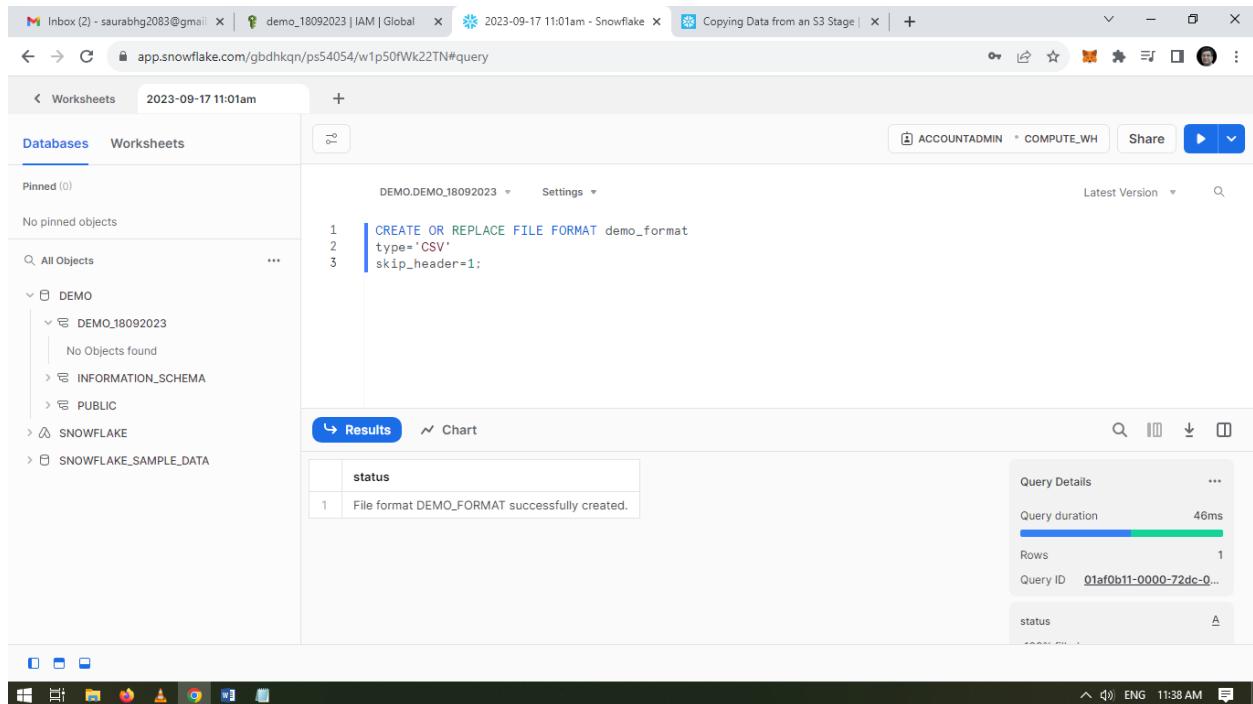
Query Details

Query duration 46ms

Rows 1

Query ID 01af0b11-0000-72dc-0...

status A



Inbox (2) - saurabhg2083@gmail.com | demo_18092023 | IAM | Global | 2023-09-17 11:01am - Snowflake | Creating an S3 Stage | Snowflake | +

← → C app.snowflake.com/gbdhkqn/ps54054/w1p50fWk22TN#query

Worksheets 2023-09-17 11:01am +

Databases Worksheets

Pinned (0)

No pinned objects

Q All Objects ...

DEMO

- DEMO_18092023
 - No Objects found
- INFORMATION_SCHEMA
- PUBLIC

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

DEMO.DEMO_18092023 Settings

Latest Version v Draft

CREATE OR REPLACE FILE FORMAT demo_format
type='CSV'
skip_header=1;

CREATE OR REPLACE STAGE demo_aws_stage
STORAGE_INTEGRATION = aws_s3_int
URL = 's3://demo-18092023/'
FILE_FORMAT = demo_format;

Results Chart

status
1 File format DEMO_FORMAT successfully created.

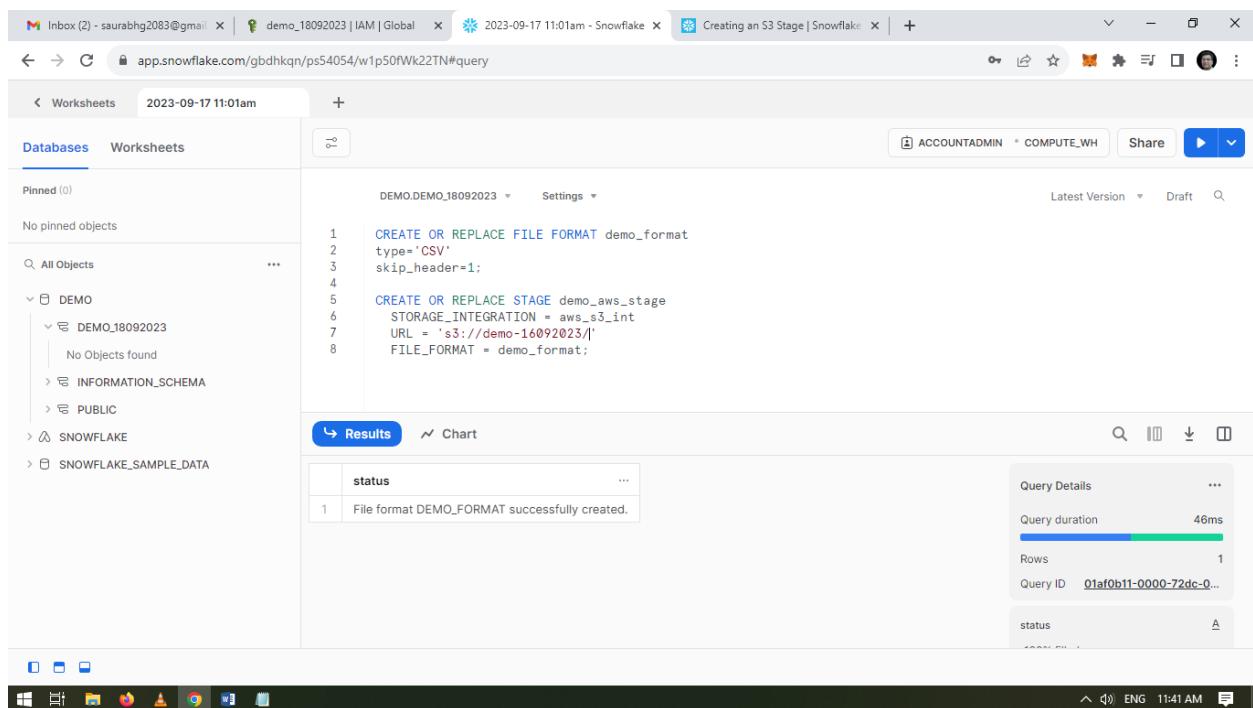
Query Details

Query duration 46ms

Rows 1

Query ID 01af0b11-0000-72dc-0...

status A



```
CREATE OR REPLACE FILE FORMAT demo_format
```

```
type='CSV'
```

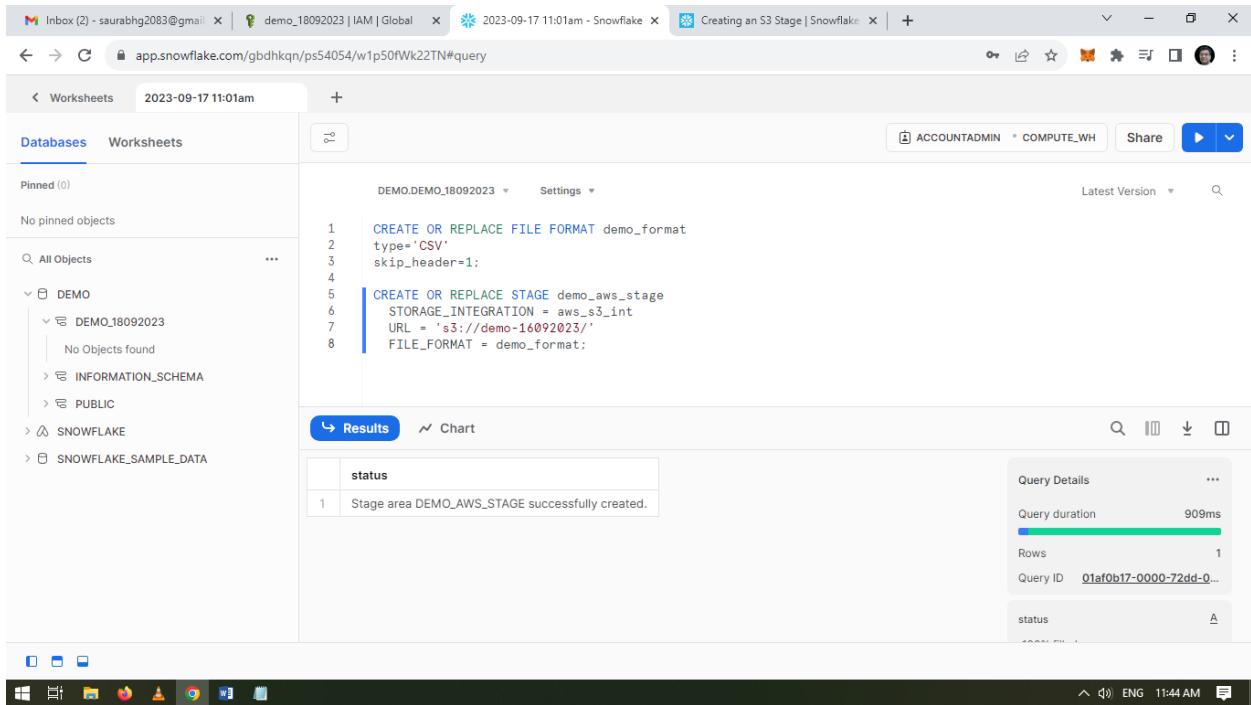
```
skip_header=1;
```

```
CREATE OR REPLACE STAGE demo_aws_stage
```

```
STORAGE_INTEGRATION = aws_s3_int
```

```
URL = 's3://demo-XXXXXX/'
```

```
FILE_FORMAT = demo_format;
```



The screenshot shows the Snowflake Web UI interface. The top navigation bar includes tabs for 'Inbox (2)', 'demo_18092023 | IAM | Global', '2023-09-17 11:01am - Snowflake', 'Creating an S3 Stage | Snowflake', and a '+' button. The main content area has tabs for 'Worksheets' (selected) and '2023-09-17 11:01am'. The left sidebar shows 'Databases' (selected) and 'Worksheets'. The main workspace displays two SQL queries:

```
1 CREATE OR REPLACE FILE FORMAT demo_format
2 type='CSV'
3 skip_header=1;
4
5 CREATE OR REPLACE STAGE demo_aws_stage
6 STORAGE_INTEGRATION = aws_s3_int
7 URL = 's3://demo-16092023/'
8 FILE_FORMAT = demo_format;
```

The results pane shows a single row:

status
1 Stage area DEMO_AWS_STAGE successfully created.

On the right, the 'Query Details' sidebar shows:

- Query duration: 909ms
- Rows: 1
- Query ID: 01af0b17-0000-72dd-0...

Inbox (3) - saurabhg2083@gmail.com | demo-16092023 - S3 bucket | IAM | Global | 2023-09-17 11:01am - Snowflake | +

← → C app.snowflake.com/gbdkhqn/ps54054/w1p50fWk22TN#query

Worksheets 2023-09-17 11:01am +

Databases Worksheets

Pinned (0)

No pinned objects

Q All Objects ...

DEMO

DEMO_18092023

No Objects found

INFORMATION_SCHEMA

PUBLIC

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

1 List @demo_aws_stage;

Results Chart

name	size	md5
s3://demo-16092023/MavenMarket_Calendar.csv	8,004	da7d0c13cdb4fd129887d476f
s3://demo-16092023/MavenMarket_Customers.csv	1,576,785	676739cde95cb4e19f0d5022
s3://demo-16092023/MavenMarket_Products.csv	104,252	90690e3c688f69760f3e08bc1
s3://demo-16092023/MavenMarket_Regions.csv	2,887	dd327157dcba8fdbd64e3cd5
s3://demo-16092023/MavenMarket_Returns_1997-1998.csv	141,531	afb2906018cdad456c8fdfffd3e
s3://demo-16092023/MavenMarket_Stores.csv	2,896	418e5c70dc4b7763b1862ba3
s3://demo-16092023/MavenMarket_Transactions_1997.csv	3,030,338	7a14da3f0d64347ad831a191f
s3://demo-16092023/MavenMarket_Transactions_1998.csv	6,362,895	fbfcbcc0ef1030d89b10b99f7

Query Details

Query duration 74ms

Rows 8

Query ID 01af0b37-0000-72dc-0...

name A

100% filled

size #

ENG 12:20 PM

Inbox (4) - saurabhg2083@gmail.com | demo-16092023 - S3 | IAM | Global | 2023-09-17 11:01am - Snowflake: Create a T | Google create table in snowflake | Snowflake: Create a T | +

← → C app.snowflake.com/gbdkhqn/ps54054/w1p50fWk22TN#query

Worksheets 2023-09-17 11:01am +

Databases Worksheets

Pinned (0)

No pinned objects

Q All Objects ...

DEMO

DEMO_18092023

No Objects found

INFORMATION_SCHEMA

PUBLIC

SNOWFLAKE

SNOWFLAKE_SAMPLE_DATA

1 CREATE or REPLACE table MavenMarket_Customers (

customer_id integer,

customer_acct_num string,

first_name string,

last_name string,

customer_address string,

customer_city string,

customer_state_province string,

customer_postal_code string,

customer_country string,

birthdate string,

marital_status string,

yearly_income string,

gender string, total_children string,

num_children_at_home string,

education string,

acct_open_datestring,

member_card string,

occupation string,

homeowner string)

ENG 12:25 PM

```

14 gender string,tot...
15 num_children_at_home string,
16 education string,
17 acct_open_date string,
18 member_card string,
19 occupation string,
20 homeowner string)

Results
1 status
1 Table MAVENMARKET_CUSTOMERS successfully created.

Query Details
Query duration 130ms
Rows 1
Query ID 01af0b40-0000-72dd-...
status
100% filled

```

Copy to Table and Select Records

```

1 COPY into MavenMarket_Customers
2 from @demo_aws_stage/MavenMarket_Customers.csv
3 file_format=(format_name=demo_format);
4
5 Select * FROM MavenMarket_Customers;

Results
1 STOMER_ID CUSTOMER_ACCT_NUM ... FIRST_NAME LAST_NAME
2 1 87462024688 Sheri Nowmer
3 2 87470586299 Derrick Whelby
4 3 87475757600 Jeanne Derry
5 4 87500482201 Michael Spence
6 5 87514054179 Maya Gutierrez
7 6 87517782449 Robert Damstra
8 7 87521172800 Rebecca Kanagak
9 8 87539744377 Kim Brunner
10 9 87544797658 Brenda Blumberg

Query Details
Query duration 457ms
Rows 10K
Query ID 01af0b49-0000-72dd-...
CUSTOMER_ID
CUSTOMER_ACCT_NUM

```

