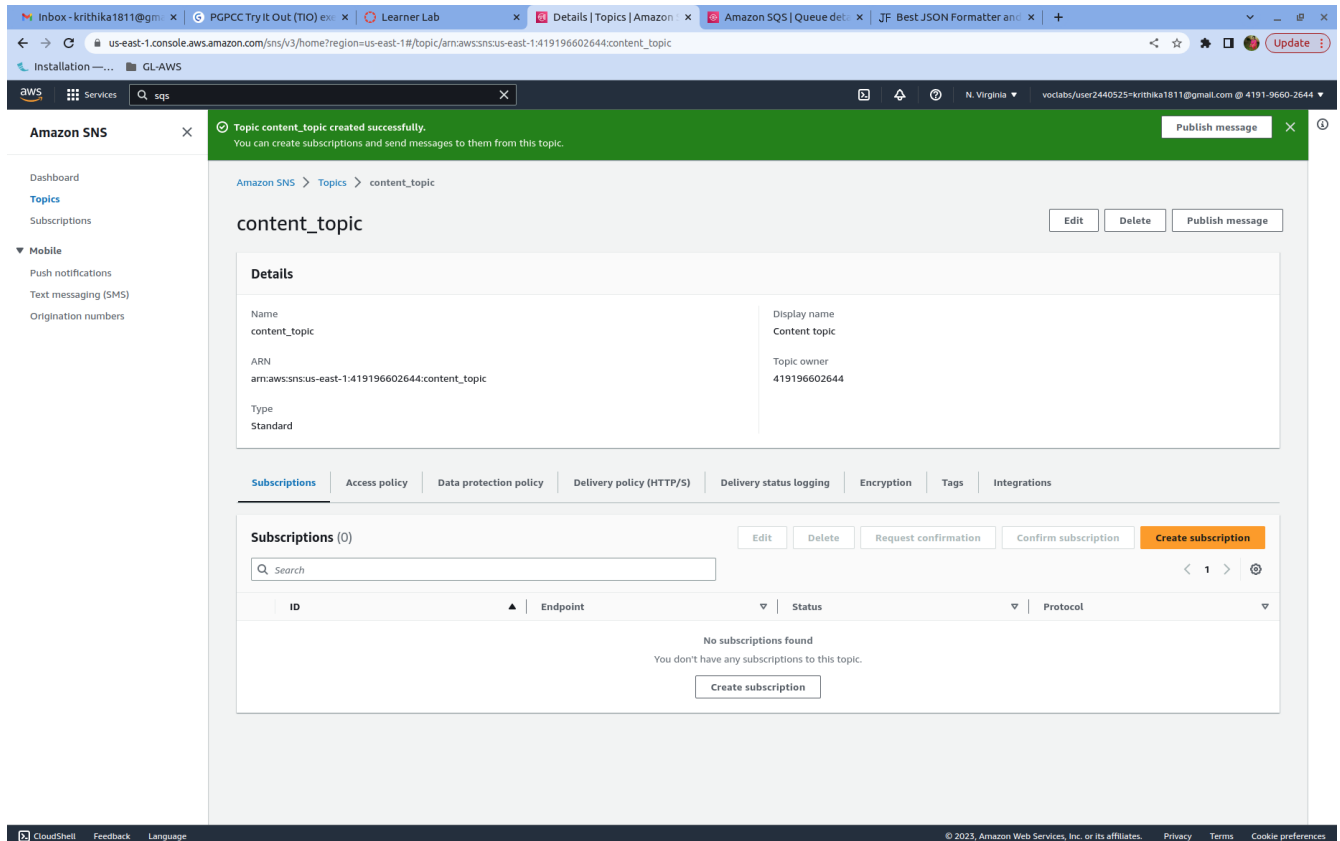


CloudWithAWS-TIO-21-v1.0

The following are the goals of this hands-on:

1. Create the SNS topic and a Queue



2. Create a subscription in SNS for the Queue

us-east-1.console.aws.amazon.com/sqs/v2/home?region=us-east-1#/queues/https%3A%2F%2Fsqs.us-east-1.amazonaws.com%2F419196602644%2Fcontent_q

Queue content_q created successfully
You can now send and receive messages.

Amazon SQS > Queues > content_q

content_q

Edit Delete Purge Send and receive messages Start DLQ redrive

Details info

Name content_q	Type Standard	ARN arn:aws:sqs:us-east-1:419196602644:content_q
Encryption Amazon SQS key (SSE-SQS)	URL https://sqs.us-east-1.amazonaws.com/419196602644/content_q	Dead-letter queue -

► More

SNS subscriptions Lambda triggers Dead-letter queue Monitoring Tagging Access policy Encryption Dead-letter queue redrive tasks

Subscription region
us-east-1

SNS subscriptions (0) info

Search subscriptions

Subscription ARN Topic ARN

No Amazon SNS subscriptions

To allow your queue to receive messages, subscribe it to an Amazon SNS topic.

Subscribe to Amazon SNS topic

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

3. Ensure the permission is granted for SNS to push the message to SQS

Inbox - kritika1811@gmail.com x GPGCC Try It Out (TIO) x Learner Lab x Publish message | Amazon SNS x Amazon SQS | Queue details x JF - Best JSON Formatter and x +

us-east-1.console.aws.amazon.com/sns/v3/home?region=us-east-1#/publish/topic/amawssnsus-east-1:419196602644:content_topic

Installation —... GL-AWS

Amazon SNS > Topics > content_topic > Publish message

Publish message to topic

Message details

Topic ARN
amawssnsus-east-1:419196602644:content_topic

Subject - optional
sample

Maximum 100 printable ASCII characters

Time to Live (TTL) - optional [info](#)
This setting applies only to mobile application endpoints. The number of seconds that the push notification service has to deliver the message to the endpoint.

Message body

Message structure

☒ Identical payload for all delivery protocols.
The same payload is sent to endpoints subscribed to the topic, regardless of their delivery protocol.

☐ Custom payload for each delivery protocol.
Different payloads are sent to endpoints subscribed to the topic, based on their delivery protocol.

Message body to send to the endpoint

1 This is sample message

Message attributes [info](#)

Message attributes let you provide structured metadata items (such as timestamps, geospatial data, signatures, and identifiers) for the message.

Type	Name	Value	
String	attr1	value1	Remove

4. Publish a message in SNS and observe it in the SQS console

us-east-1.console.aws.amazon.com/sns/v3/home?region=us-east-1#/topic/amawssnsus-east-1:419196602644:content_topic

Amazon SNS

Message published to topic content_topic successfully.
Message "ID": 856c2b06-91d1-5c93-86c9-76085d9f5ed0
Request "ID": 9895342a-1850-56cc-867a-6924d41e948f

content_topic

Details

Name content_topic	Display name Content topic
ARN arn:aws:sns:us-east-1:419196602644:content_topic	Topic owner 419196602644
Type Standard	

Subscriptions

Subscriptions (1)

ID	Endpoint	Status	Protocol
331a3c22-4694-4c05-9154-a37d7a3942ee	arn:aws:sqs:us-east-1:419196602644:content_q	Confirmed	SQS

us-east-1.console.aws.amazon.com/sqs/v2/home?region=us-east-1#/queues

Amazon SQS > Queues

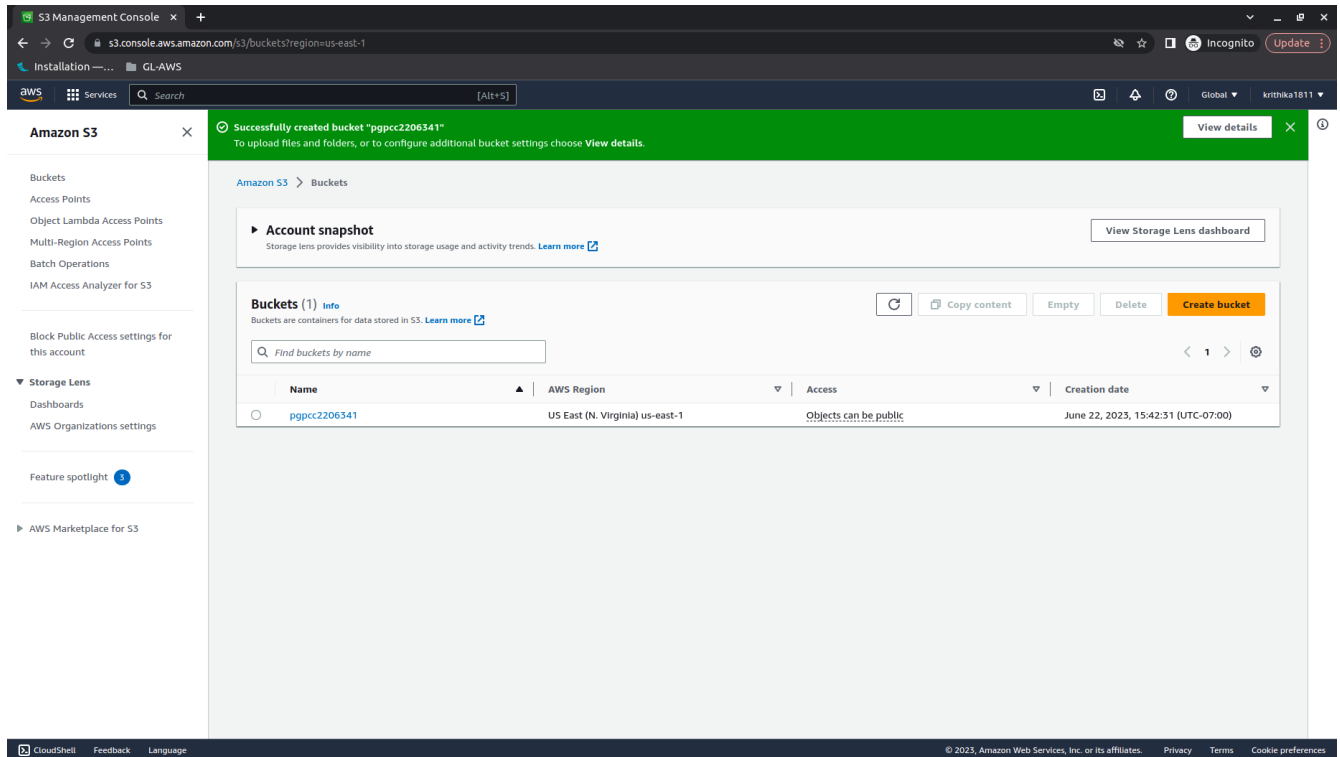
Queues (1)

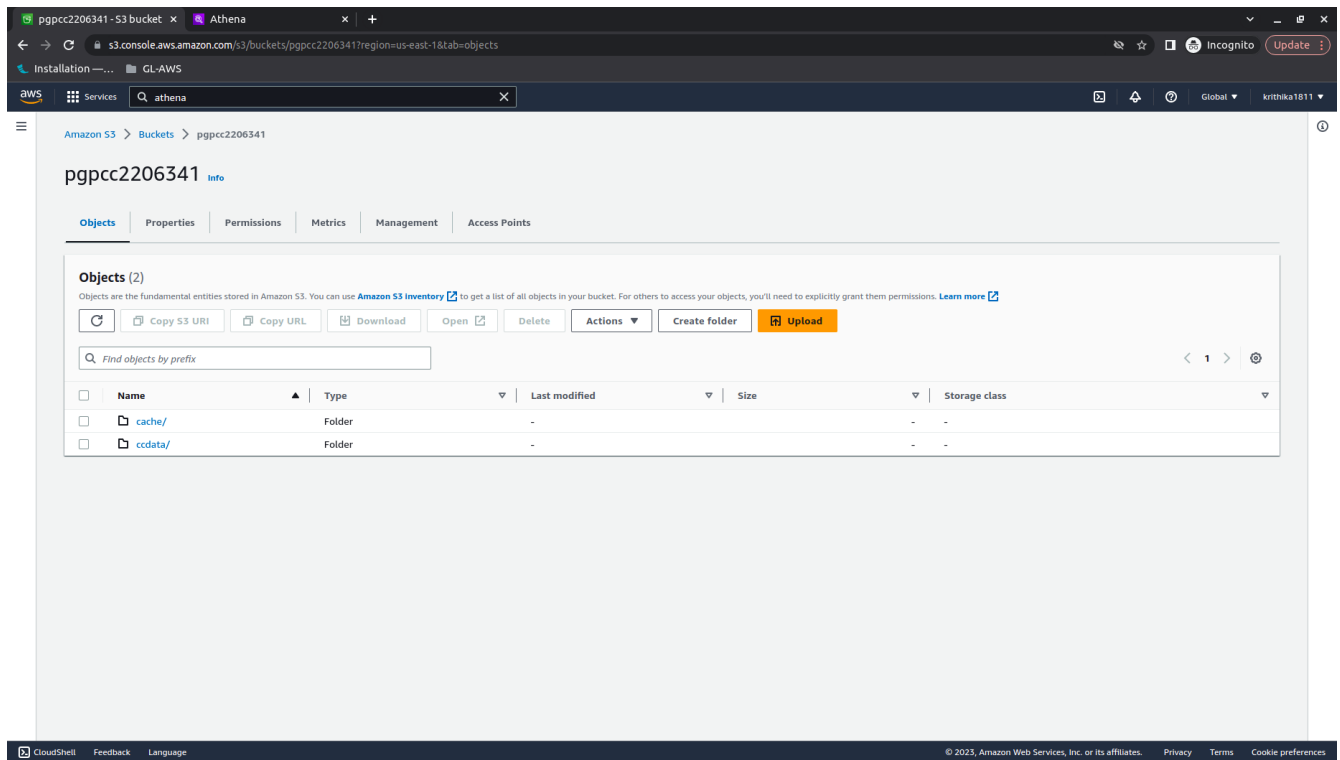
Name	Type	Created	Messages available	Messages in flight	Encryption	Content-based deduplication
content_q	Standard	Jun 22, 2023, 15:20:58 PDT	1	0	Amazon SQS key (SSE-SQS)	-

CloudWithAWS-TIO-22-v1.1

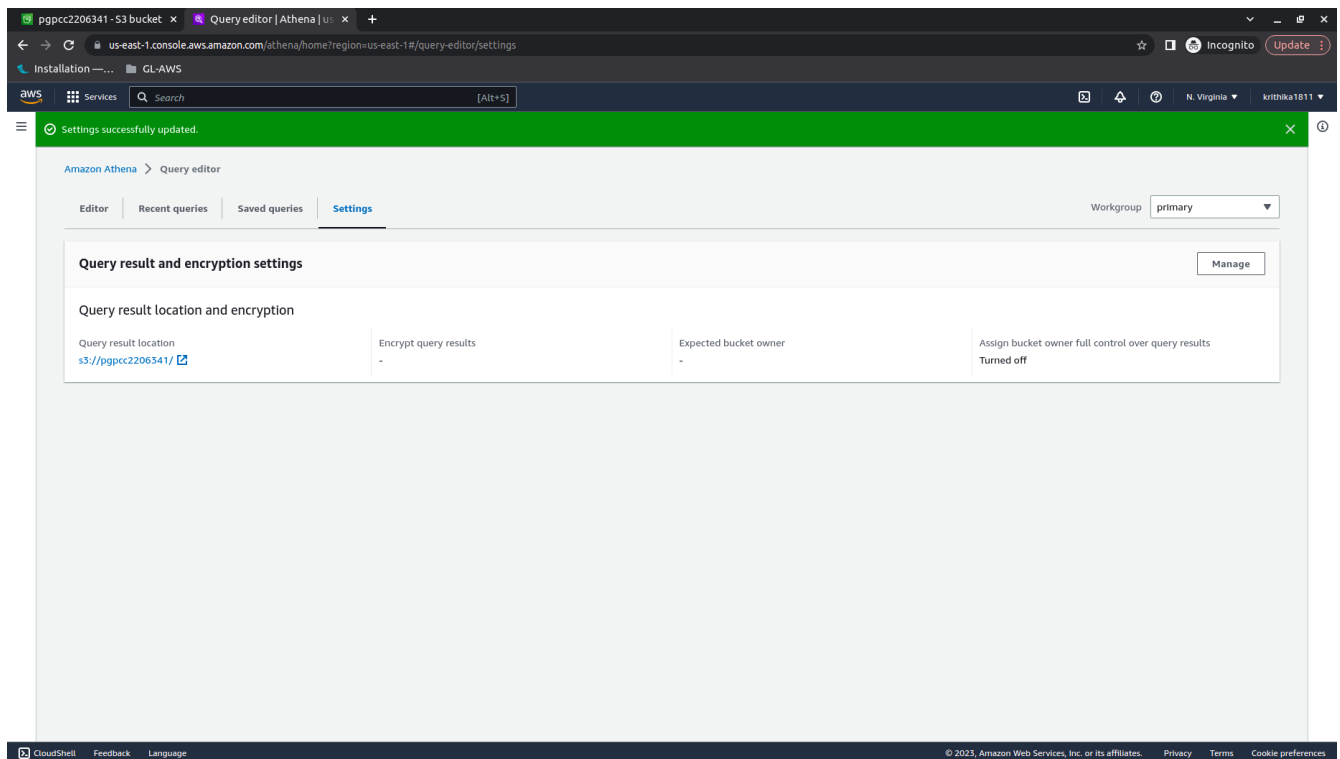
The following are the goals of this hands-on:

1. Create a bucket and upload CSV data





2. Query data stored in S3 (data lake) via Athena



3. Develop understanding of schema definition and data analysis

The screenshot displays the Amazon Athena Query Editor interface in a web browser. The browser's address bar shows the URL: `us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history/S160040c-e68c-41b0-b6d2-b6c1fcaded40`. The interface includes a top navigation bar with the AWS logo, a search bar, and a user profile dropdown for 'N. Virginia' and 'krithika1811'. Below this, the 'Amazon Athena > Query editor' breadcrumb is visible. The main workspace is divided into three sections: 'Data', 'Query 1', and 'Query results'. The 'Data' section on the left shows the 'Data source' as 'AwsDataCatalog', the 'Database' as 'appdata', and a list of 'Tables (1)' including 'ccspend'. The 'Query 1' section in the center contains a SQL statement for creating an external table:

```
1 CREATE EXTERNAL TABLE IF NOT EXISTS appdata.ccspend (  
2   year_month bigint,  
3   agency_number bigint,  
4   last_name string,  
5   first_name string,  
6   agency_name string,  
7   amount double,  
8   vendor string,  
9   txn_date string,  
10  posted_date string,  
11  description string  
12 )  
13 ROW FORMAT SERDE 'org.apache.hadoop.hive.serde2.lazy.LazySimpleSerDe'  
14 WITH SERDEPROPERTIES ('serialization.format' = ',', 'field.delim' = ',')  
15 LOCATION 's3://pgpcc2206341/ccdata/'
```

 Below the query editor, there are buttons for 'Run again', 'Explain', 'Cancel', 'Clear', and 'Create'. The 'Query results' section at the bottom shows a green status bar indicating 'Completed' with a 'Time in queue: 98 ms', 'Run time: 363 ms', and 'Data scanned: -'. A message below the status bar states 'Query successful.'.

Query editor | Athena | us-east-1 console

us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history/9947493b-25bc-411a-891a-d4936db3f062

Amazon Athena > Query editor

Editor Recent queries Saved queries Settings Workgroup: primary

Data

Data source: AwsDataCatalog Database: appdata

Tables and views

Tables (1): ccspend

Views (0)

Query 1

```
1 select * from ccspend limit 10;
```

SQL Ln 1, Col 32

Run again Explain Cancel Clear Create

Query results Query stats

Completed Time in queue: 247 ms Run time: 571 ms Data scanned: 148.77 KB

Results (10)

#	year_month	agency_number	last_name	first_name	agency_name	amount	vendor	txn_date
1	201307	1000	Mason	C	GENERAL PURCHASE	890.0	NACAS	07/30/20
2	201307	1000	Mason	C	ROOM CHARGES	368.96	SHERATON HOTEL	07/30/20
3	201307	1000	Massey	J	GENERAL PURCHASE	165.82	SEARS.COM 9300	07/29/20
4	201307	1000	Massey	T	GENERAL PURCHASE	96.39	WAL-MART #0137	07/30/20
5	201307	1000	Mauro-Herrera	M	HAMMERMILL COPY PLUS COPY EA	125.96	STAPLES DIRECT	07/30/20
6	201307	1000	Mauro-Herrera	M	GENERAL PURCHASE	394.28	KYOCERA DOCUMENT SOLUTION	07/29/20
7	201307	1000	Mavs	R	GENFRAI PURCHASE	19.87	WAL-MART #0137	07/30/20

Query editor | Athena | us-east-1 console

us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history/3a01f0fd-4911-442f-b629-6b71033e9466

Amazon Athena > Query editor

Editor Recent queries Saved queries Settings Workgroup: primary

Data

Data source: AwsDataCatalog Database: appdata

Tables and views

Tables (1): ccspend

Views (0)

Query 1

```
1 select count(1) NumTxn, agency_name
2 from ccspend
3 group by agency_name
4 having count(1) > 5;
```

SQL Ln 4, Col 21

Run again Explain Cancel Clear Create

Query results Query stats

Completed Time in queue: 255 ms Run time: 898 ms Data scanned: 148.77 KB

Results (4)

#	NumTxn	agency_name
1	7	JANITORIAL SUPPLIES NMB
2	679	GENERAL PURCHASE
3	32	ROOM CHARGES
4	10	AIR TRAVEL

pgpcc2206341 - S3 bucket x Query editor | Athena | us x +

us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history/61541e49-5ced-4950-996a-e43c75b384aa

Installation ... GL-AWS

aws Services Search [Alt+S]

Amazon Athena > Query editor

Editor Recent queries Saved queries Settings Workgroup primary

Data

Data source: AwsDataCatalog

Database: appdata

Tables and views

Filter tables and views

Tables (0) Views (0)

Query 1

```
1 drop table ccspend;
```

SQL Ln 1, Col 20

Run again Explain Cancel Clear Create

Reuse query results
*Athena engine version 3 only

Query results Query stats

Completed Time in queue: 218 ms Run time: 548 ms Data scanned: -

Query successful.

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

pgpcc2206341 - S3 bucket x Query editor | Athena | us x +

us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history/324794d2-7da5-40ec-9eb7-b3d512ba890a

Installation ... GL-AWS

aws Services Search [Alt+S]

Amazon Athena > Query editor

Editor Recent queries Saved queries Settings Workgroup primary

Data

Data source: AwsDataCatalog

Database: default

Tables and views

Filter tables and views

Tables (0) Views (0)

Query 1

```
1 drop database appdata;
```

SQL Ln 1, Col 23

Run again Explain Cancel Clear Create

Reuse query results
*Athena engine version 3 only

Query results Query stats

Completed Time in queue: 109 ms Run time: 445 ms Data scanned: -

Query successful.

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