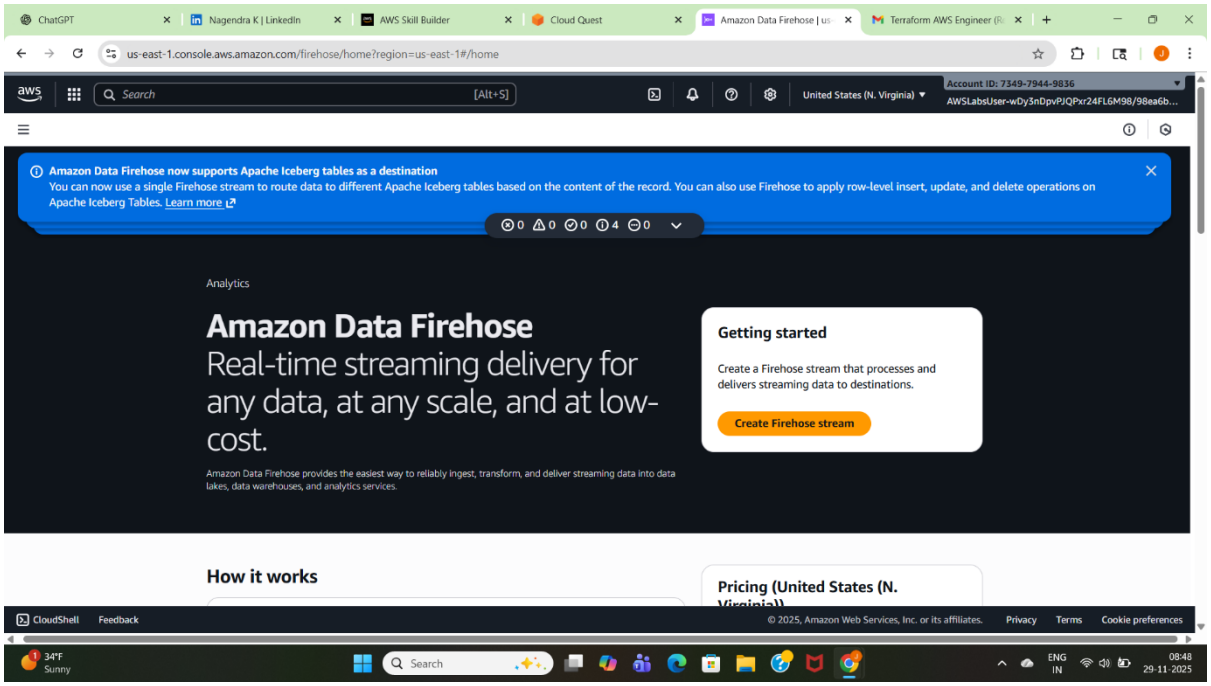
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Terraform AWS Engineer
us-east-1.console.aws.amazon.com/firehose/home?region=us-east-1#/home
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United States (N. Virginia)
Account ID: 7349-7944-9836
AWSLabsUser-wDy3nDpvPJQPxr24FL6M98/98ea6b...
Amazon Data Firehose now supports Apache Iceberg tables as a destination
You can now use a single Firehose stream to route data to different Apache Iceberg tables based on the content of the record. You can also use Firehose to apply row-level insert, update, and delete operations on Apache Iceberg Tables. Learn more
Analytics
Amazon Data Firehose
Real-time streaming delivery for any data, at any scale, and at low-cost.
Amazon Data Firehose provides the easiest way to reliably ingest, transform, and deliver streaming data into data lakes, data warehouses, and analytics services.
Getting started
Create a Firehose stream that processes and delivers streaming data to destinations.
Create Firehose stream
How it works
Pricing (United States (N.
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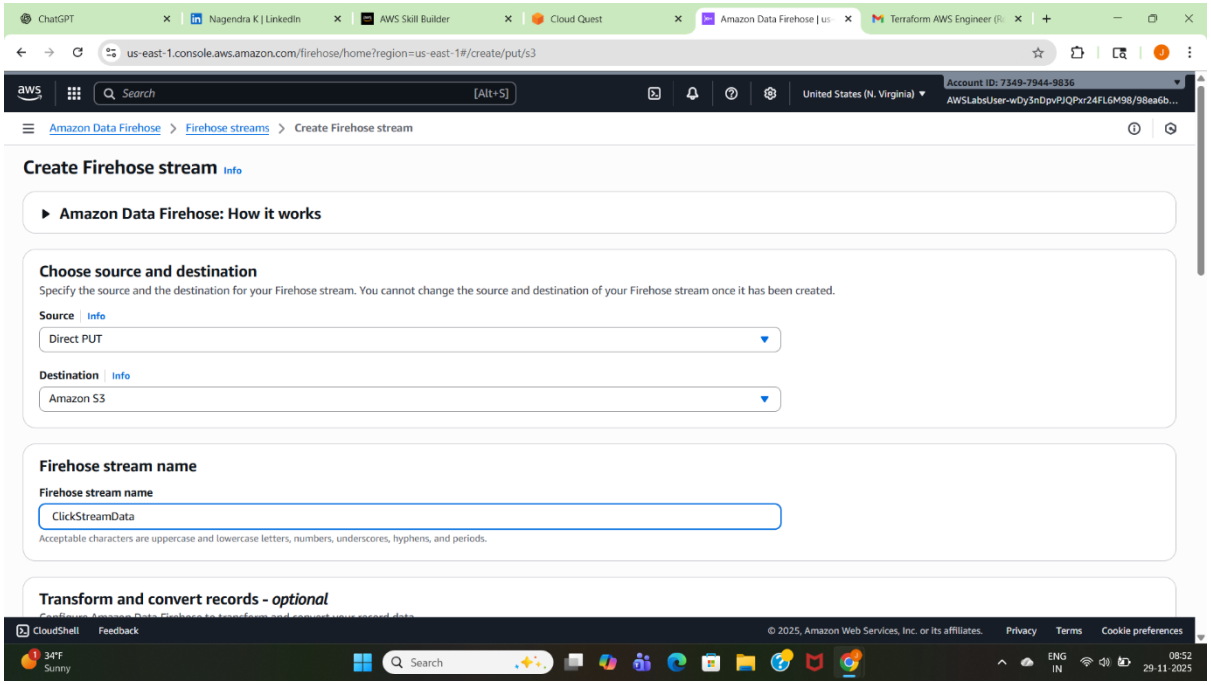
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us-east-1.console.aws.amazon.com/firehose/home?region=us-east-1#/create/put/s3
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Amazon Data Firehose
Firehose streams
Create Firehose stream
Create Firehose stream Info
Amazon Data Firehose: How it works
Choose source and destination
Specify the source and the destination for your Firehose stream. You cannot change the source and destination of your Firehose stream once it has been created.
Source Info
Direct PUT
Destination Info
Amazon S3
Firehose stream name
Firehose stream name
ClickStreamData
Acceptable characters are uppercase and lowercase letters, numbers, underscores, hyphens, and periods.
Transform and convert records - optional
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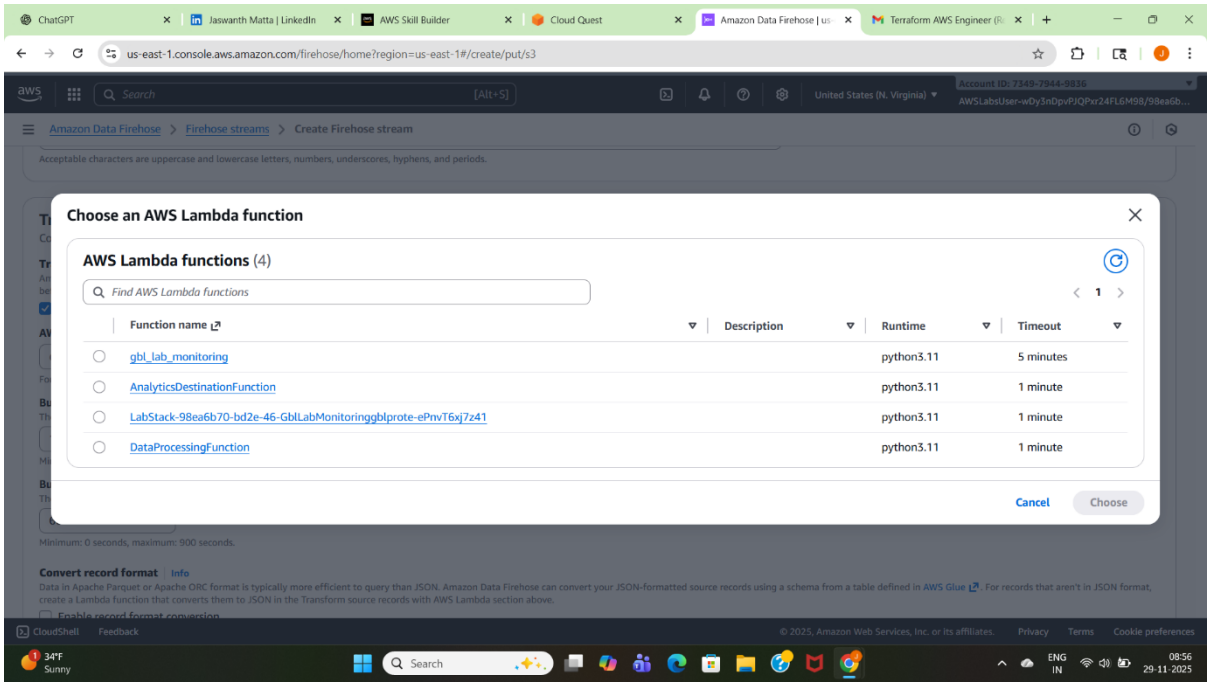
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Terraform AWS Engineer
us-east-1.console.aws.amazon.com/firehose/home?region=us-east-1#/create/put/s3
Amazon Data Firehose > Firehose streams > Create Firehose stream
Choose an AWS Lambda function
AWS Lambda functions (4)
Find AWS Lambda functions
Function name
Description
Runtime
Timeout
gbl_lab_monitoring
python3.11
5 minutes
AnalyticsDestinationFunction
python3.11
1 minute
LabStack-98ea6b70-bd2e-46-GblLabMonitoringgblprote-ePnvT6xj7z41
python3.11
1 minute
DataProcessingFunction
python3.11
1 minute
Cancel
Choose
Convert record format
Info
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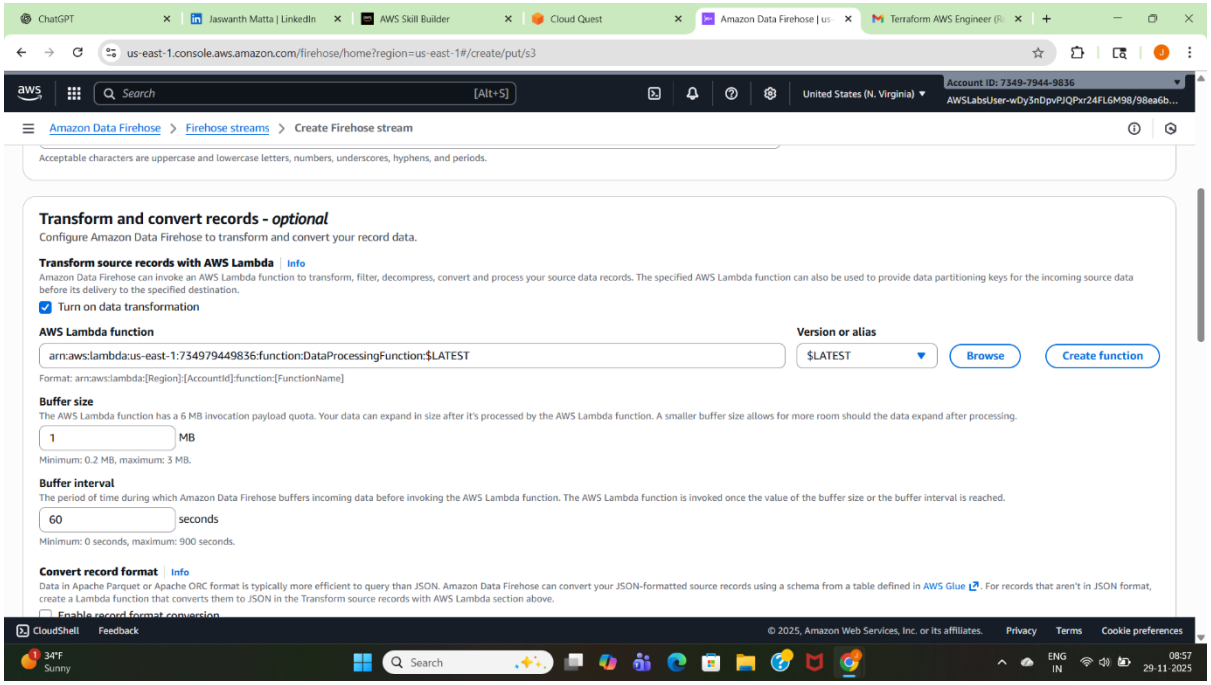
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Account ID: 7349-7944-9836
AWSLabsUser-wDy3nDpvPJQPxr24FL6M98/98ea6b...
Amazon Data Firehose > Firehose streams > Create Firehose stream
Acceptable characters are uppercase and lowercase letters, numbers, underscores, hyphens, and periods.
Transform and convert records - optional
Configure Amazon Data Firehose to transform and convert your record data.
Transform source records with AWS Lambda
Info
Amazon Data Firehose can invoke an AWS Lambda function to transform, filter, decompress, convert and process your source data records. The specified AWS Lambda function can also be used to provide data partitioning keys for the incoming source data before its delivery to the specified destination.
Turn on data transformation
AWS Lambda function
arn:aws:lambda:us-east-1:734979449836:function:DataProcessingFunction:$LATEST
Version or alias
$LATEST
Browse
Create function
Format: arn:aws:lambda:[Region]:[AccountId]:function:[FunctionName]
Buffer size
The AWS Lambda function has a 6 MB invocation payload quota. Your data can expand in size after it's processed by the AWS Lambda function. A smaller buffer size allows for more room should the data expand after processing.
1
MB
Minimum: 0.2 MB, maximum: 3 MB.
Buffer interval
The period of time during which Amazon Data Firehose buffers incoming data before invoking the AWS Lambda function. The AWS Lambda function is invoked once the value of the buffer size or the buffer interval is reached.
60
seconds
Minimum: 0 seconds, maximum: 900 seconds.
Convert record format
Info
Data in Apache Parquet or Apache ORC format is typically more efficient to query than JSON. Amazon Data Firehose can convert your JSON-formatted source records using a schema from a table defined in AWS Glue. For records that aren't in JSON format, create a Lambda function that converts them to JSON in the Transform source records with AWS Lambda section above.
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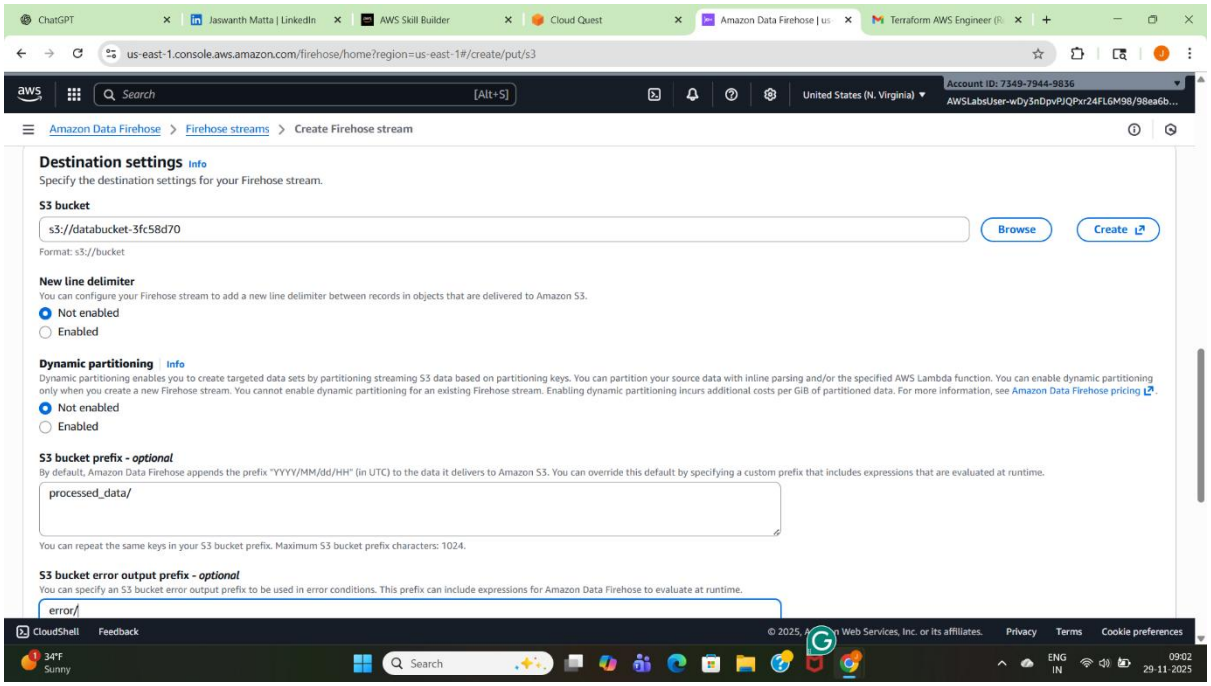
us-east-1.console.aws.amazon.com/firehose/home?region=us-east-1#/create/put/s3
Amazon Data Firehose > Firehose streams > Create Firehose stream
Destination settings Info
Specify the destination settings for your Firehose stream.
S3 bucket
s3://databucket-3fc58d70
Browse
Create
Format: s3://bucket
New line delimiter
You can configure your Firehose stream to add a new line delimiter between records in objects that are delivered to Amazon S3.
Not enabled
Enabled
Dynamic partitioning Info
Dynamic partitioning enables you to create targeted data sets by partitioning streaming S3 data based on partitioning keys. You can partition your source data with inline parsing and/or the specified AWS Lambda function. You can enable dynamic partitioning only when you create a new Firehose stream. You cannot enable dynamic partitioning for an existing Firehose stream. Enabling dynamic partitioning incurs additional costs per GiB of partitioned data. For more information, see Amazon Data Firehose pricing.
Not enabled
Enabled
S3 bucket prefix - optional
By default, Amazon Data Firehose appends the prefix "YYYY/MM/dd/HH" (in UTC) to the data it delivers to Amazon S3. You can override this default by specifying a custom prefix that includes expressions that are evaluated at runtime.
processed_data/
You can repeat the same keys in your S3 bucket prefix. Maximum S3 bucket prefix characters: 1024.
S3 bucket error output prefix - optional
You can specify an S3 bucket error output prefix to be used in error conditions. This prefix can include expressions for Amazon Data Firehose to evaluate at runtime.
error/
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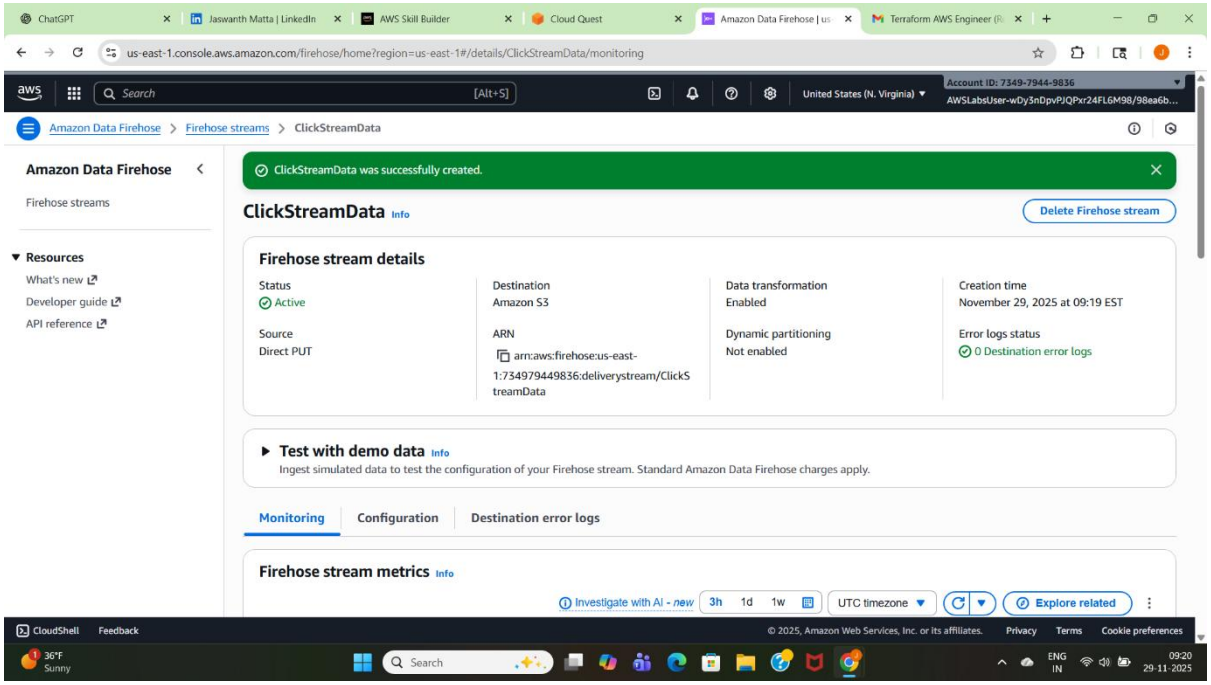
us-east-1.console.aws.amazon.com/firehose/home?region=us-east-1#/details/ClickStreamData/monitoring
Amazon Data Firehose > Firehose streams > ClickStreamData
Amazon Data Firehose
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API reference
ClickStreamData was successfully created.
ClickStreamData Info
Delete Firehose stream
Firehose stream details
Status
Active
Source
Direct PUT
Destination
Amazon S3
ARN
arn:aws:firehose:us-east-1:734979449836:deliverystream/ClickStreamData
Data transformation
Enabled
Dynamic partitioning
Not enabled
Creation time
November 29, 2025 at 09:19 EST
Error logs status
0 Destination error logs
Test with demo data Info
Ingest simulated data to test the configuration of your Firehose stream. Standard Amazon Data Firehose charges apply.
Monitoring
Configuration
Destination error logs
Firehose stream metrics Info
Investigate with AI - new
3h
1d
1w
UTC timezone
Explore related
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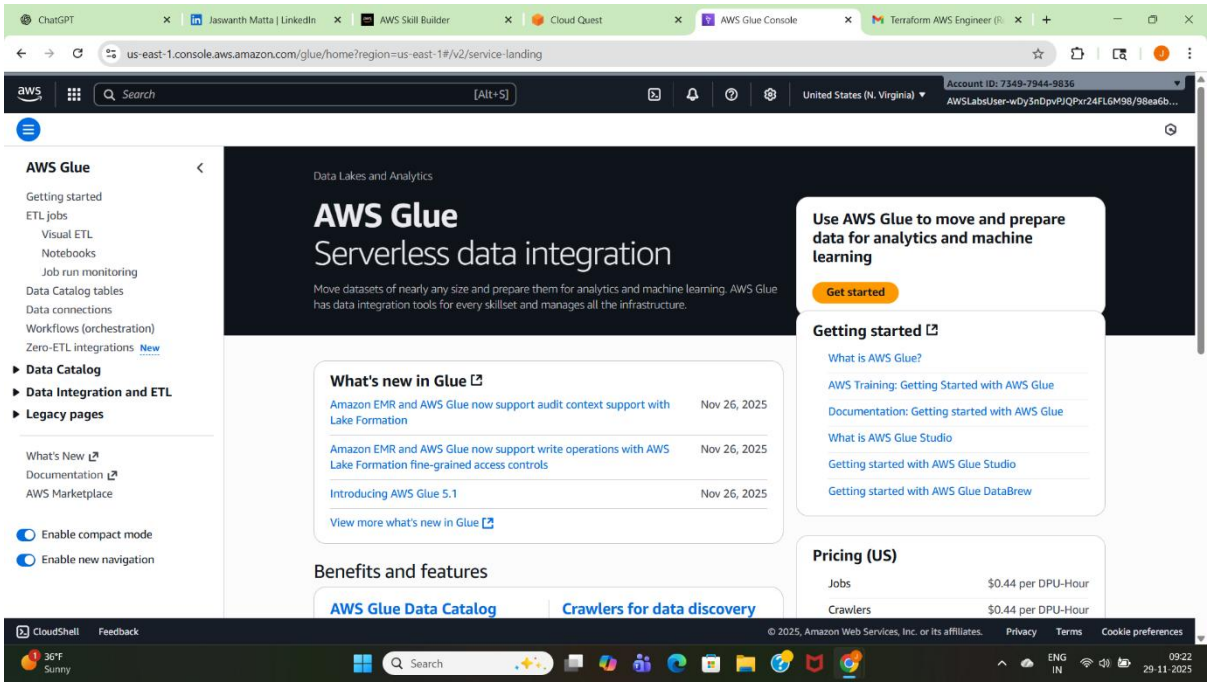
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Data Lakes and Analytics
AWS Glue
Serverless data integration
Move datasets of nearly any size and prepare them for analytics and machine learning. AWS Glue has data integration tools for every skillset and manages all the infrastructure.
Use AWS Glue to move and prepare data for analytics and machine learning
Get started
Getting started
What is AWS Glue?
AWS Training: Getting Started with AWS Glue
Documentation: Getting started with AWS Glue
What is AWS Glue Studio
Getting started with AWS Glue Studio
Getting started with AWS Glue DataBrew
What's new in Glue
Amazon EMR and AWS Glue now support audit context support with Lake Formation
Nov 26, 2025
Amazon EMR and AWS Glue now support write operations with AWS Lake Formation fine-grained access controls
Nov 26, 2025
Introducing AWS Glue 5.1
Nov 26, 2025
View more what's new in Glue
Pricing (US)
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$0.44 per DPU-Hour
Crawlers
$0.44 per DPU-Hour
Benefits and features
AWS Glue Data Catalog
Crawlers for data discovery
CloudShell
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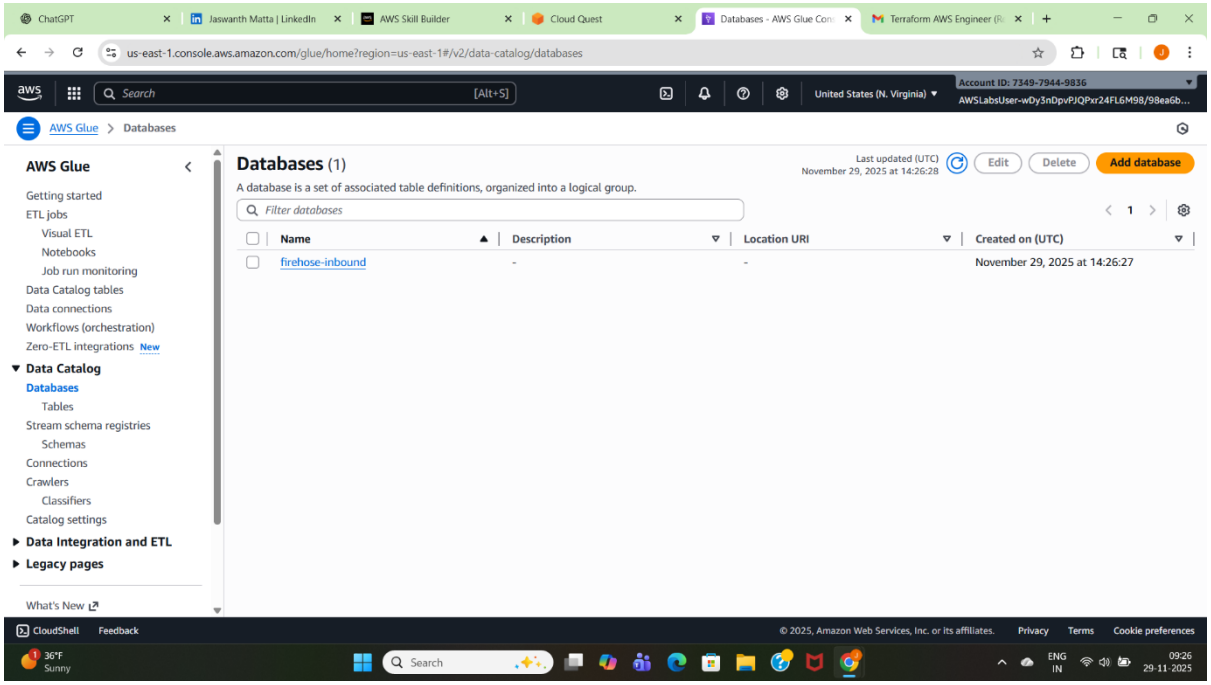
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Cloud Quest
Databases - AWS Glue
Terraform AWS Engineer
us-east-1.console.aws.amazon.com/glue/home?region=us-east-1#/v2/data-catalog/databases
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Account ID: 7349-7944-9836
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Databases (1)
A database is a set of associated table definitions, organized into a logical group.
Last updated (UTC)
November 29, 2025 at 14:26:28
Edit
Delete
Add database
Filter databases
Name
Description
Location URI
Created on (UTC)
firehose-inbound
November 29, 2025 at 14:26:27
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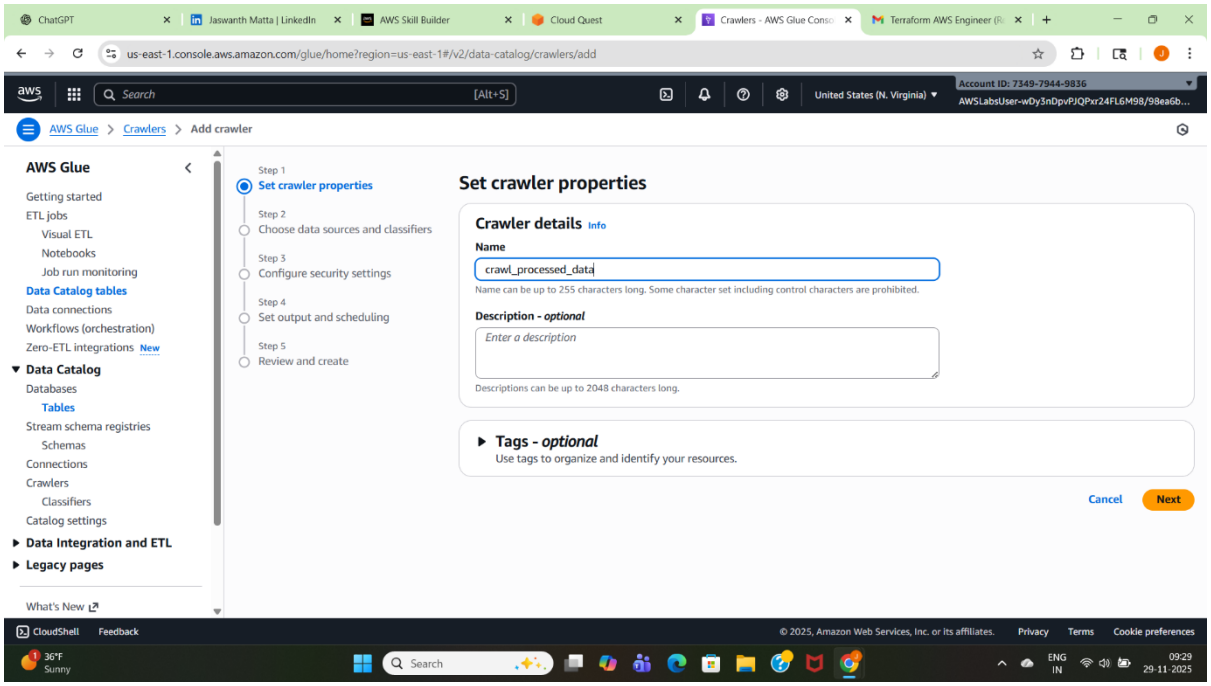
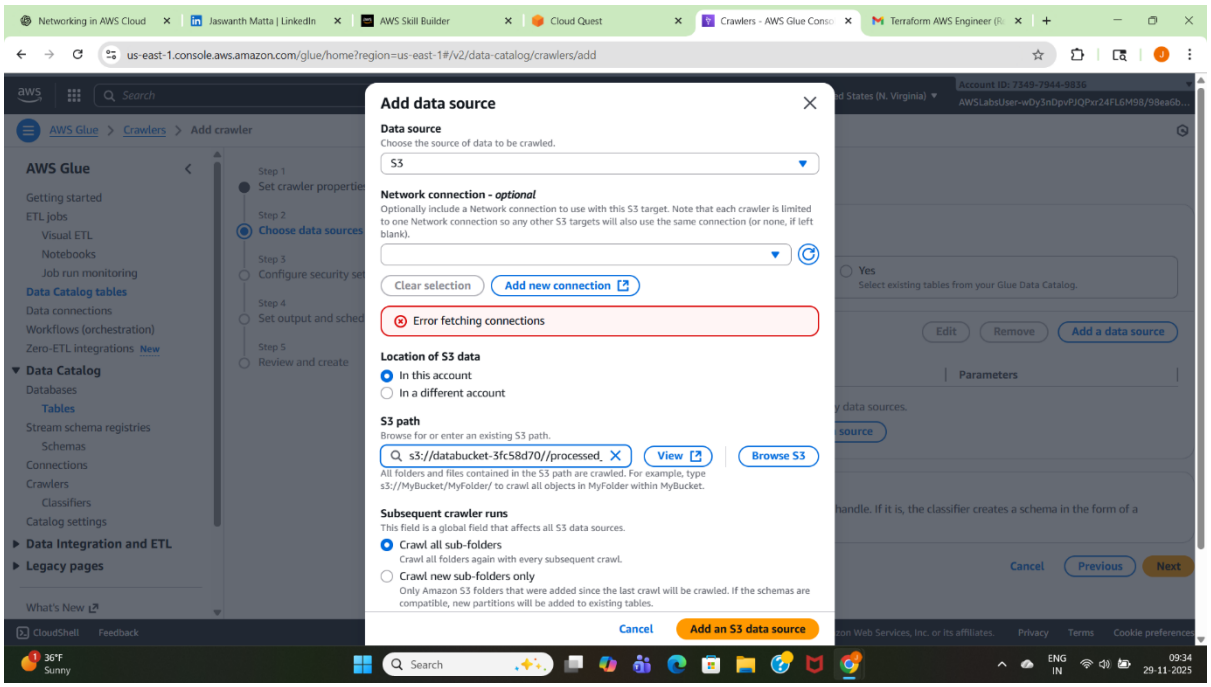
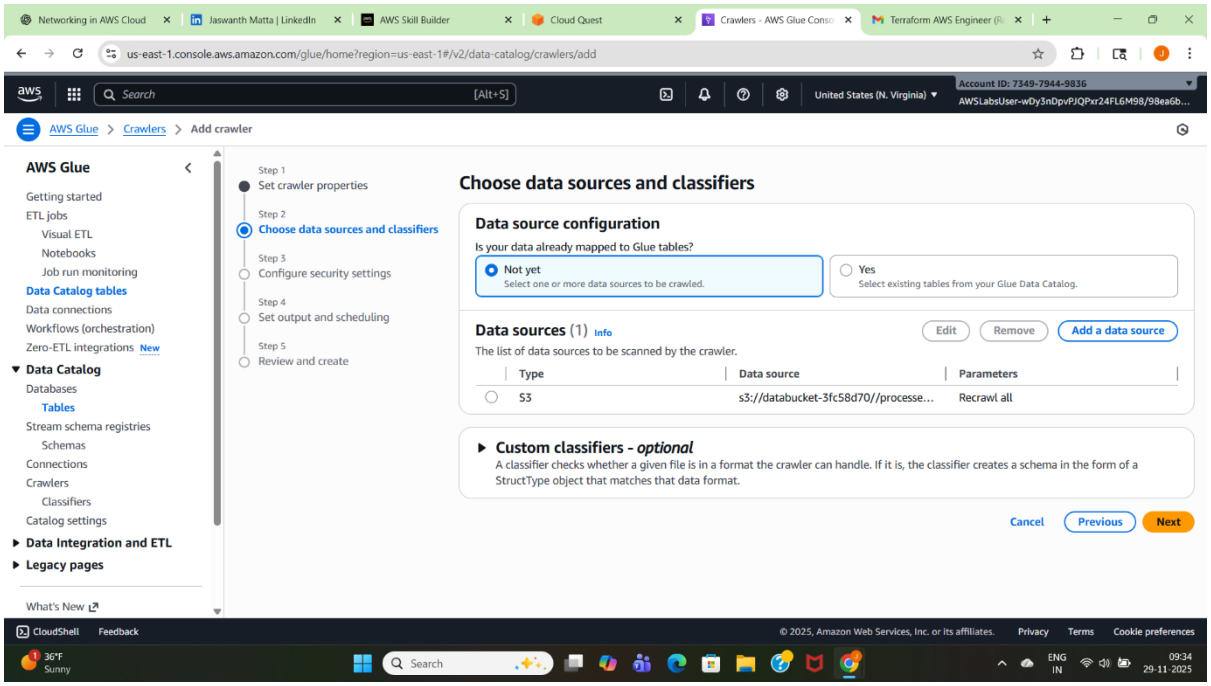

us-east-1.console.aws.amazon.com/glue/home?region=us-east-1#/v2/data-catalog/crawlers/add
AWS Glue > Crawlers > Add crawler
Step 1 Set crawler properties
Step 2 Choose data sources and classifiers
Step 3 Configure security settings
Step 4 Set output and scheduling
Step 5 Review and create
Set crawler properties
Crawler details Info
Name
crawl_processed_data
Name can be up to 255 characters long. Some character set including control characters are prohibited.
Description - optional
Enter a description
Descriptions can be up to 2048 characters long.
Tags - optional
Use tags to organize and identify your resources.
Cancel
Next


Add data source
Data source
Choose the source of data to be crawled.
S3
Network connection - optional
Optionally include a Network connection to use with this S3 target. Note that each crawler is limited to one Network connection so any other S3 targets will also use the same connection (or none, if left blank).
Clear selection
Add new connection
Error fetching connections
Location of S3 data
In this account
In a different account
S3 path
Browse for or enter an existing S3 path.
s3://databucket-3fc58d70//processed_
View
Browse S3
All folders and files contained in the S3 path are crawled. For example, type s3://MyBucket/MyFolder/ to crawl all objects in MyFolder within MyBucket.
Subsequent crawler runs
This field is a global field that affects all S3 data sources.
Crawl all sub-folders
Crawl all folders again with every subsequent crawl.
Crawl new sub-folders only
Only Amazon S3 folders that were added since the last crawl will be crawled. If the schemas are compatible, new partitions will be added to existing tables.
Cancel
Add an S3 data source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Configure security settings
Step 4
Set output and scheduling
Step 5
Review and create
Choose data sources and classifiers
Data source configuration
Is your data already mapped to Glue tables?
Not yet
Select one or more data sources to be crawled.
Yes
Select existing tables from your Glue Data Catalog.
Data sources (1) Info
Edit
Remove
Add a data source
The list of data sources to be scanned by the crawler.
Type
Data source
Parameters
S3
s3://databucket-3fc58d70//processe...
Recrawl all
Custom classifiers - optional
A classifier checks whether a given file is in a format the crawler can handle. If it is, the classifier creates a schema in the form of a StructType object that matches that data format.
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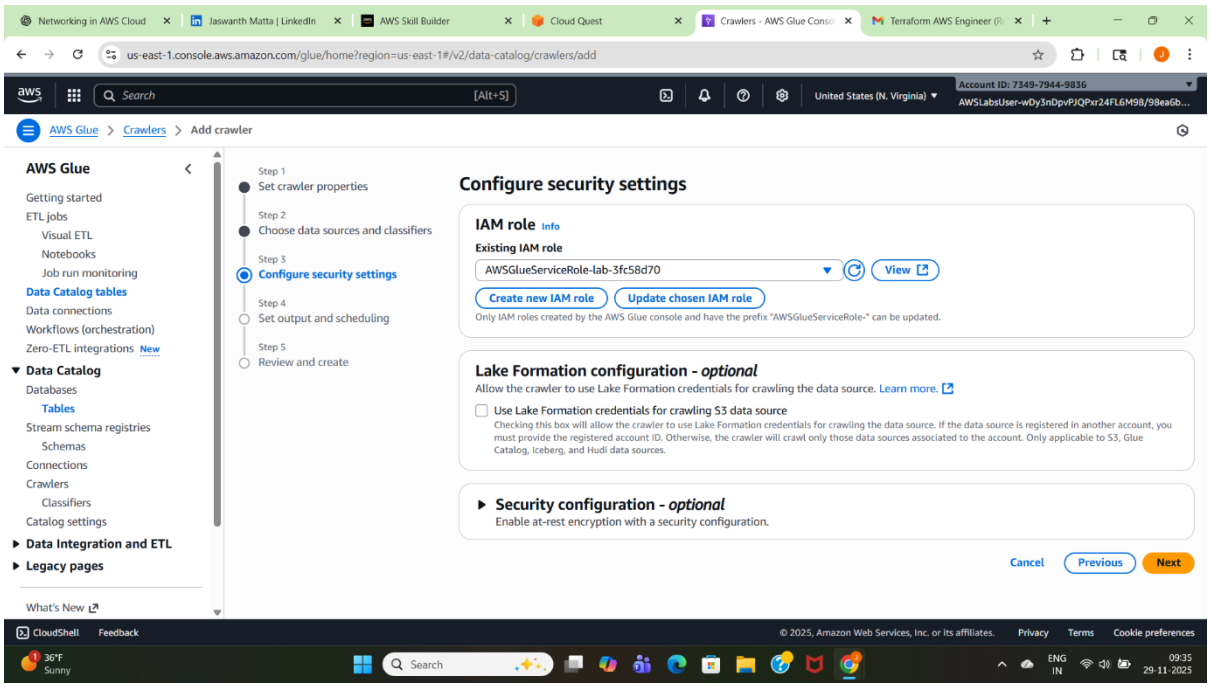
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Configure security settings
IAM role Info
Existing IAM role
AWSGlueServiceRole-lab-3fc58d70
View
Create new IAM role
Update chosen IAM role
Only IAM roles created by the AWS Glue console and have the prefix "AWSGlueServiceRole-" can be updated.
Lake Formation configuration - optional
Allow the crawler to use Lake Formation credentials for crawling the data source. Learn more.
Use Lake Formation credentials for crawling S3 data source
Checking this box will allow the crawler to use Lake Formation credentials for crawling the data source. If the data source is registered in another account, you must provide the registered account ID. Otherwise, the crawler will crawl only those data sources associated to the account. Only applicable to S3, Glue Catalog, Iceberg, and Hudi data sources.
Security configuration - optional
Enable at-rest encryption with a security configuration.
Cancel
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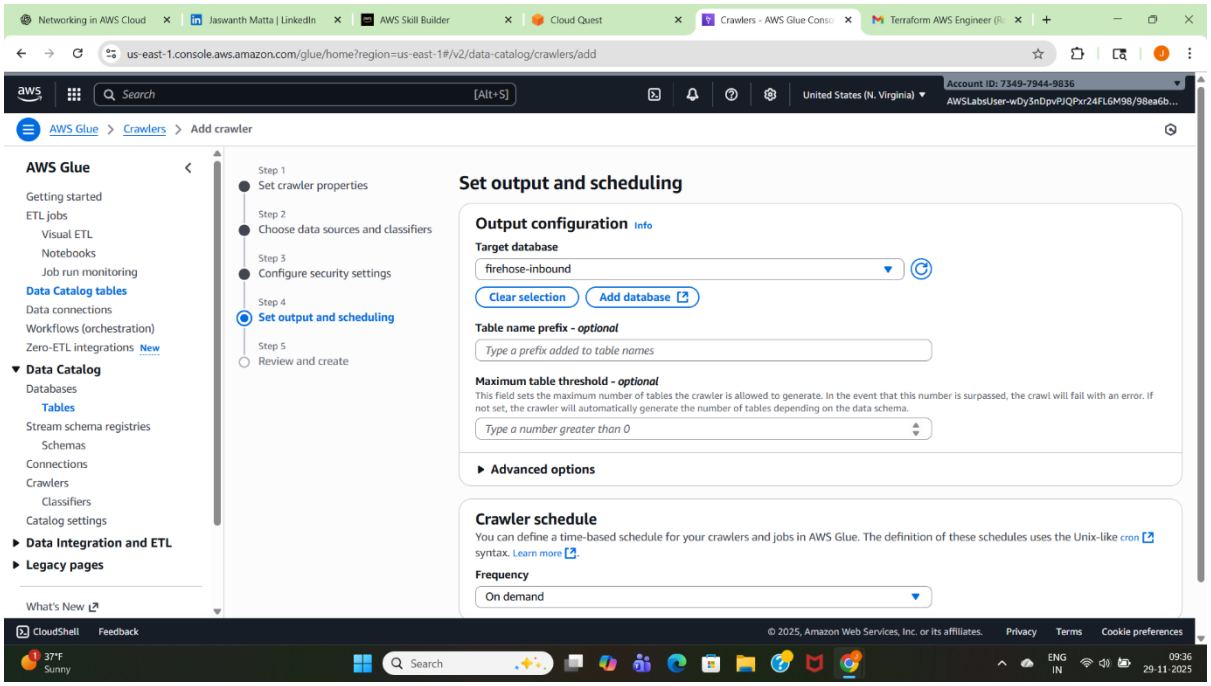
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Step 4
Set output and scheduling
Step 5
Review and create
Set output and scheduling
Output configuration Info
Target database
firehose-inbound
Clear selection
Add database
Table name prefix - optional
Type a prefix added to table names
Maximum table threshold - optional
This field sets the maximum number of tables the crawler is allowed to generate. In the event that this number is surpassed, the crawl will fail with an error. If not set, the crawler will automatically generate the number of tables depending on the data schema.
Type a number greater than 0
Advanced options
Crawler schedule
You can define a time-based schedule for your crawlers and jobs in AWS Glue. The definition of these schedules uses the Unix-like cron syntax. Learn more
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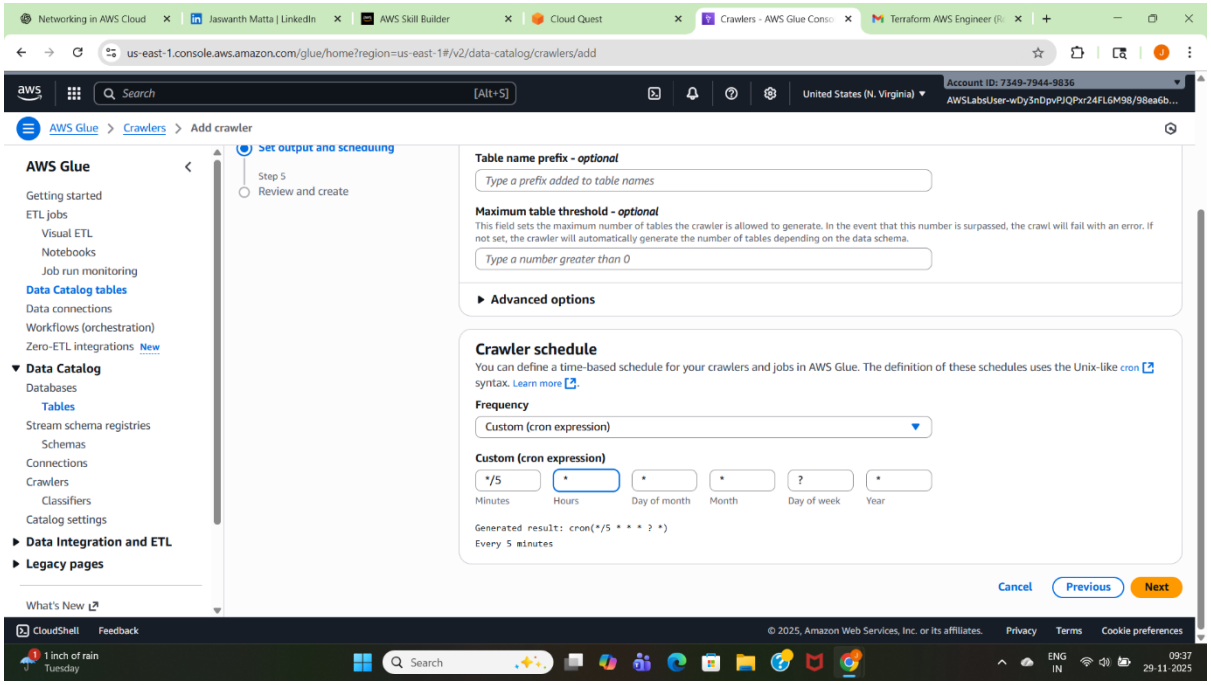
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Step 5
Review and create
Table name prefix - optional
Type a prefix added to table names
Maximum table threshold - optional
This field sets the maximum number of tables the crawler is allowed to generate. In the event that this number is surpassed, the crawl will fail with an error. If not set, the crawler will automatically generate the number of tables depending on the data schema.
Type a number greater than 0
Advanced options
Crawler schedule
You can define a time-based schedule for your crawlers and jobs in AWS Glue. The definition of these schedules uses the Unix-like cron syntax. Learn more
Frequency
Custom (cron expression)
Custom (cron expression)
*/5
*
*
*
?
*
Minutes
Hours
Day of month
Month
Day of week
Year
Generated result: cron(*/5 * * * ? *)
Every 5 minutes
Cancel
Previous
Next
CloudShell
Feedback
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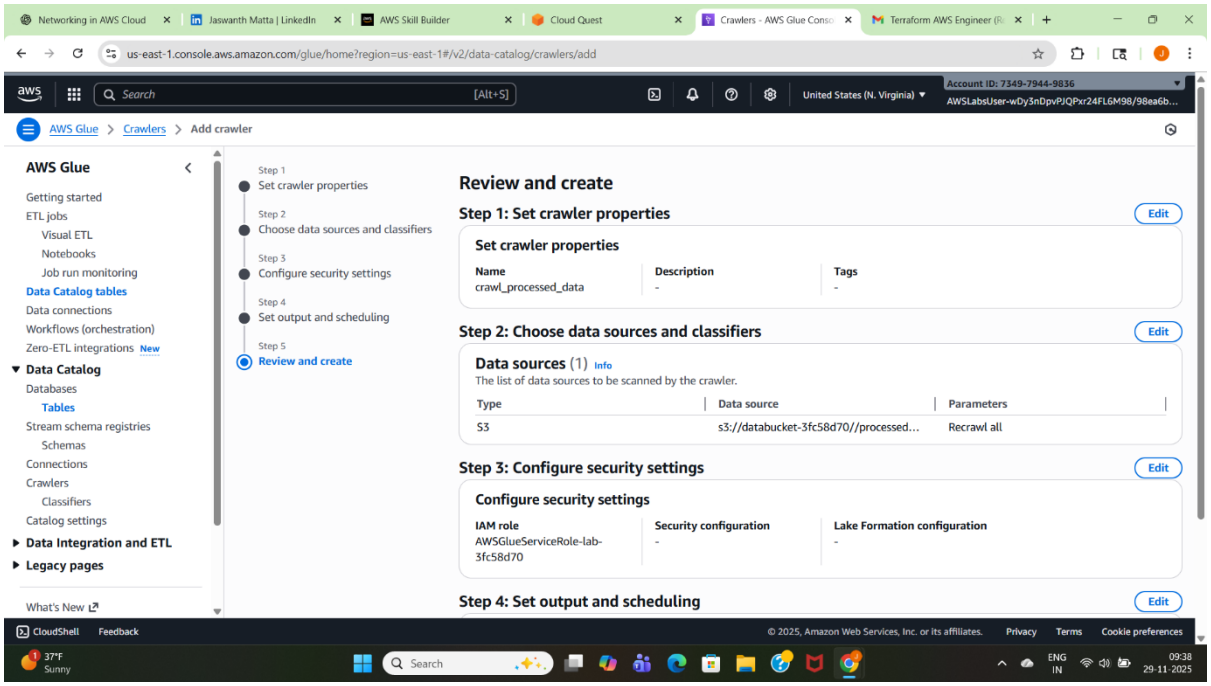
Privacy
Terms
Cookie preferences
1 inch of rain
Tuesday
Search
ENG
IN
09:37
29-11-2025


Networking in AWS Cloud
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AWS Skill Builder
Cloud Quest
Crawlers - AWS Glue Conso
Terraform AWS Engineer (R
us-east-1.console.aws.amazon.com/glue/home?region=us-east-1#/v2/data-catalog/crawlers/add
Search
[Alt+S]
United States (N. Virginia)
Account ID: 7349-7944-9836
AWSLabsUser-wDy3nDpvPJQPxr24FL6M98/98ea6b...
AWS Glue > Crawlers > Add crawler
AWS Glue
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Job run monitoring
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Data connections
Workflows (orchestration)
Zero-ETL integrations New
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Legacy pages
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Step 1
Set crawler properties
Step 2
Choose data sources and classifiers
Step 3
Configure security settings
Step 4
Set output and scheduling
Step 5
Review and create
Review and create
Step 1: Set crawler properties
Edit
Set crawler properties
Name
crawl_processed_data
Description
-
Tags
-
Step 2: Choose data sources and classifiers
Edit
Data sources (1) Info
The list of data sources to be scanned by the crawler.
Type
Data source
Parameters
S3
s3://databucket-3fc58d70//processed...
Recrawl all
Step 3: Configure security settings
Edit
Configure security settings
IAM role
AWSGlueServiceRole-lab-3fc58d70
Security configuration
-
Lake Formation configuration
-
Step 4: Set output and scheduling
Edit
CloudShell
Feedback
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37°F
Sunny
Search
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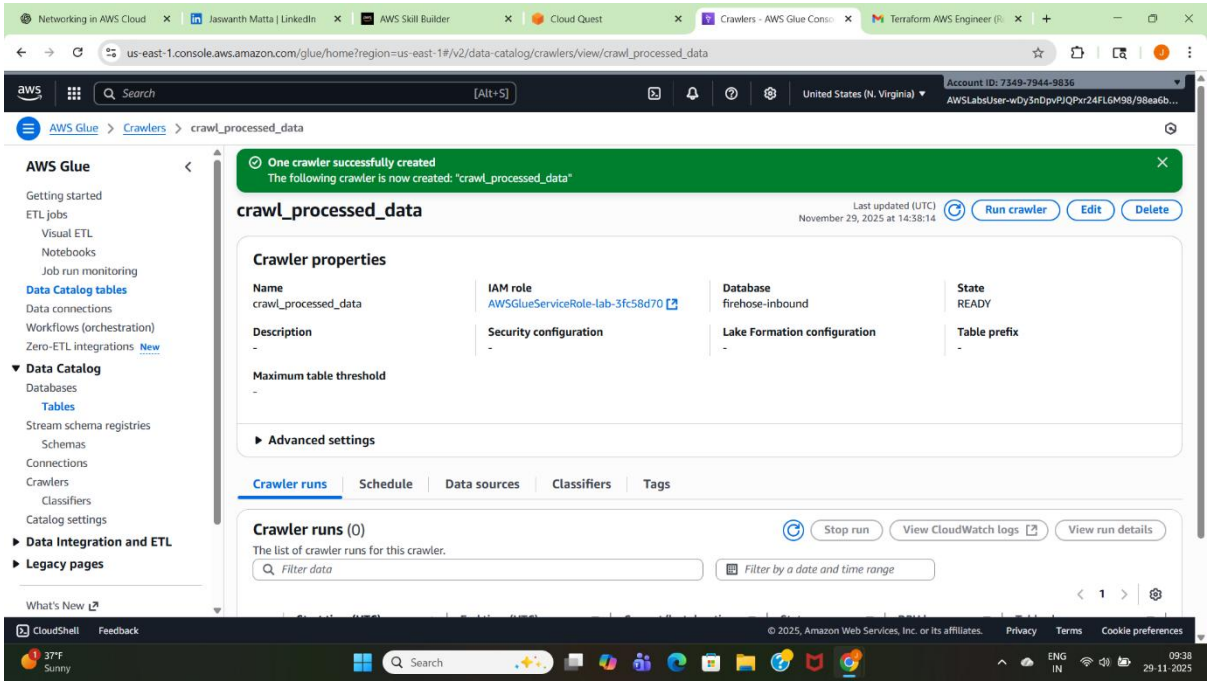
29-11-2025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us-east-1.console.aws.amazon.com/glue/home?region=us-east-1#/v2/data-catalog/crawlers/view/crawl_processed_data
Search
[Alt+S]
United States (N. Virginia)
Account ID: 7349-7944-9836
AWSLabsUser-wDy3nDpvPJQPxr24FL6M98/98ea6b...
AWS Glue > Crawlers > crawl_processed_data
AWS Glue
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What's New
One crawler successfully created
The following crawler is now created: "crawl_processed_data"
crawl_processed_data
Last updated (UTC)
November 29, 2025 at 14:38:14
Run crawler
Edit
Delete
Crawler properties
Name
crawl_processed_data
IAM role
AWSGlueServiceRole-lab-3fc58d70
Database
firehose-inbound
State
READY
Description
-
Security configuration
-
Lake Formation configuration
-
Table prefix
-
Maximum table threshold
-
Advanced settings
Crawler runs
Schedule
Data sources
Classifiers
Tags
Crawler runs (0)
Stop run
View CloudWatch logs
View run details
The list of crawler runs for this crawler.
Filter data
Filter by a date and time range
1
CloudShell
Feedback
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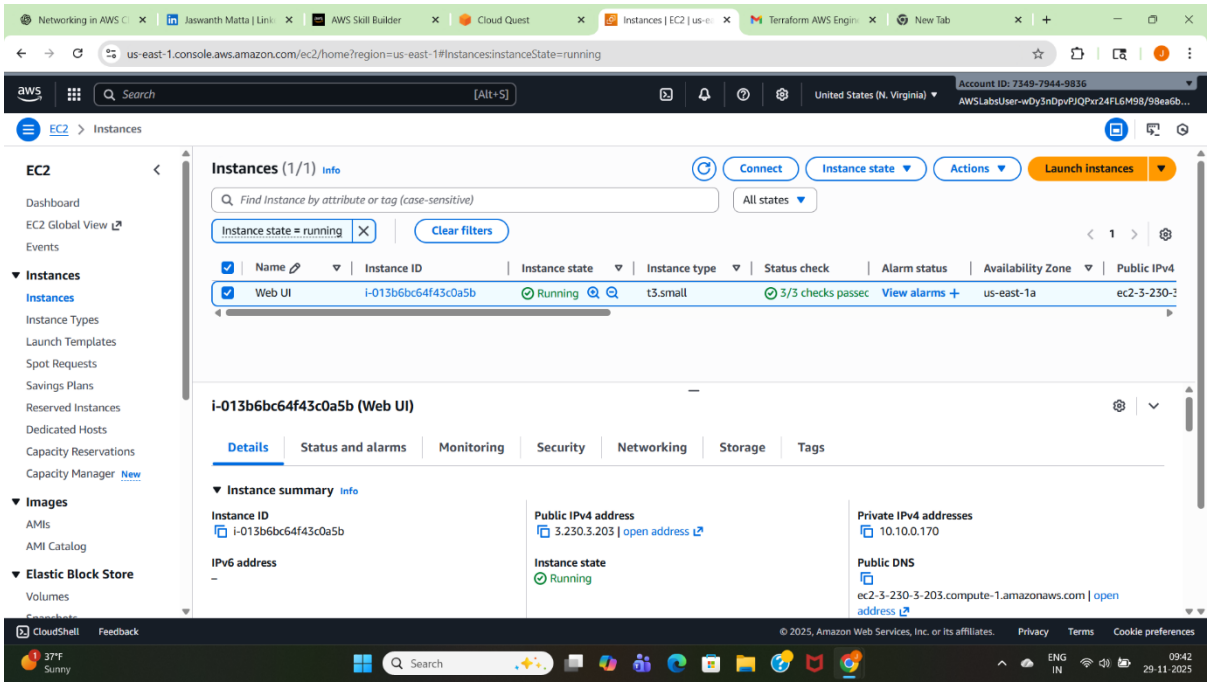
37°F
Sunny
Search
ENG
IN
09:38
29-11-2025


us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#Instances:instanceState=running
Search
[Alt+S]
United States (N. Virginia)
EC2 > Instances
EC2
Dashboard
EC2 Global View
Events
Instances
Instances
Instance Types
Launch Templates
Spot Requests
Savings Plans
Reserved Instances
Dedicated Hosts
Capacity Reservations
Capacity Manager New
Images
AMIs
AMI Catalog
Elastic Block Store
Volumes
Instances (1/1) Info
Connect
Instance state
Actions
Launch instances
Find Instance by attribute or tag (case-sensitive)
All states
Instance state = running
Clear filters
Name
Instance ID
Instance state
Instance type
Status check
Alarm status
Availability Zone
Public IPv4
Web UI
i-013b6bc64f43c0a5b
Running
t3.small
3/3 checks passed
View alarms
us-east-1a
i-013b6bc64f43c0a5b (Web UI)
Details
Status and alarms
Monitoring
Security
Networking
Storage
Tags
Instance summary Info
Instance ID
i-013b6bc64f43c0a5b
Public IPv4 address
3.230.3.203 | open address
Private IPv4 addresses
10.10.0.170
IPv6 address
–
Instance state
Running
Public DNS
ec2-3-230-3-203.compute-1.amazonaws.com | open address
CloudShell
Feedback
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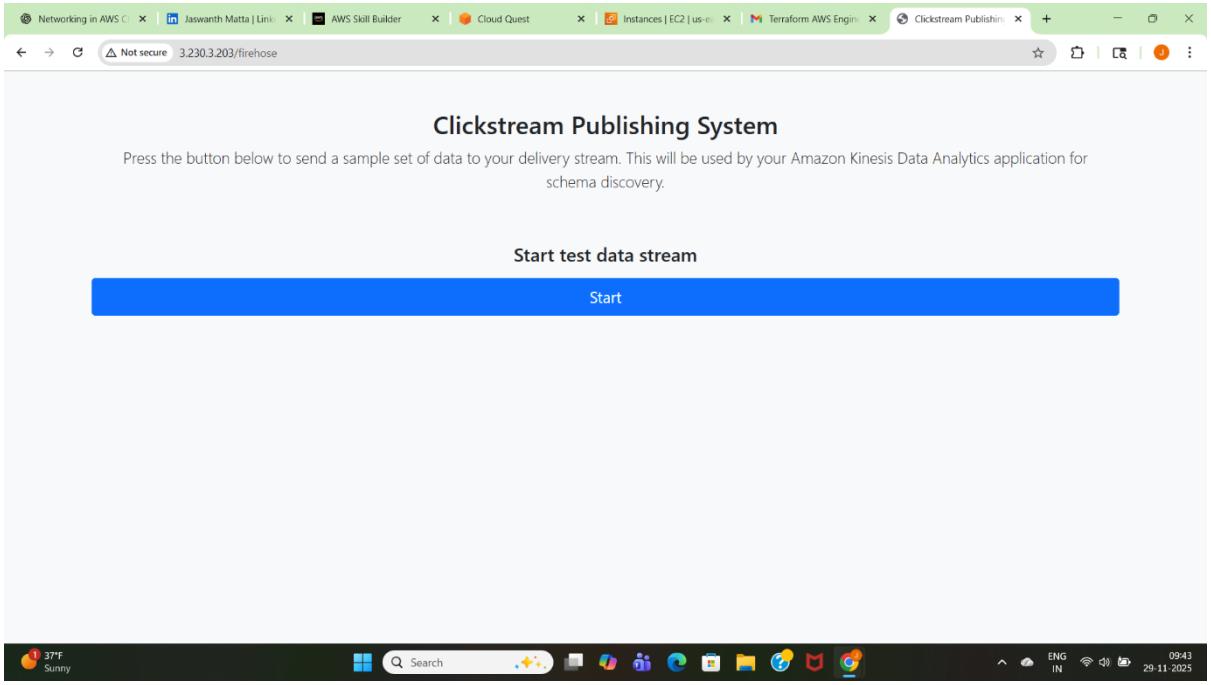
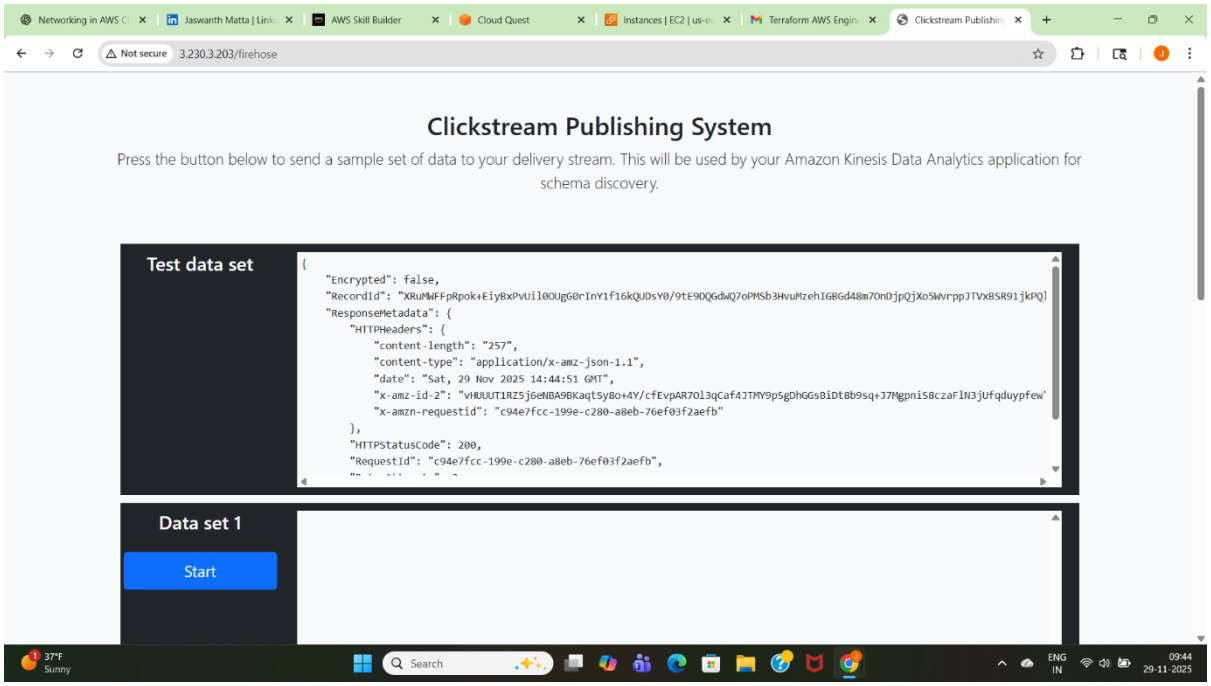
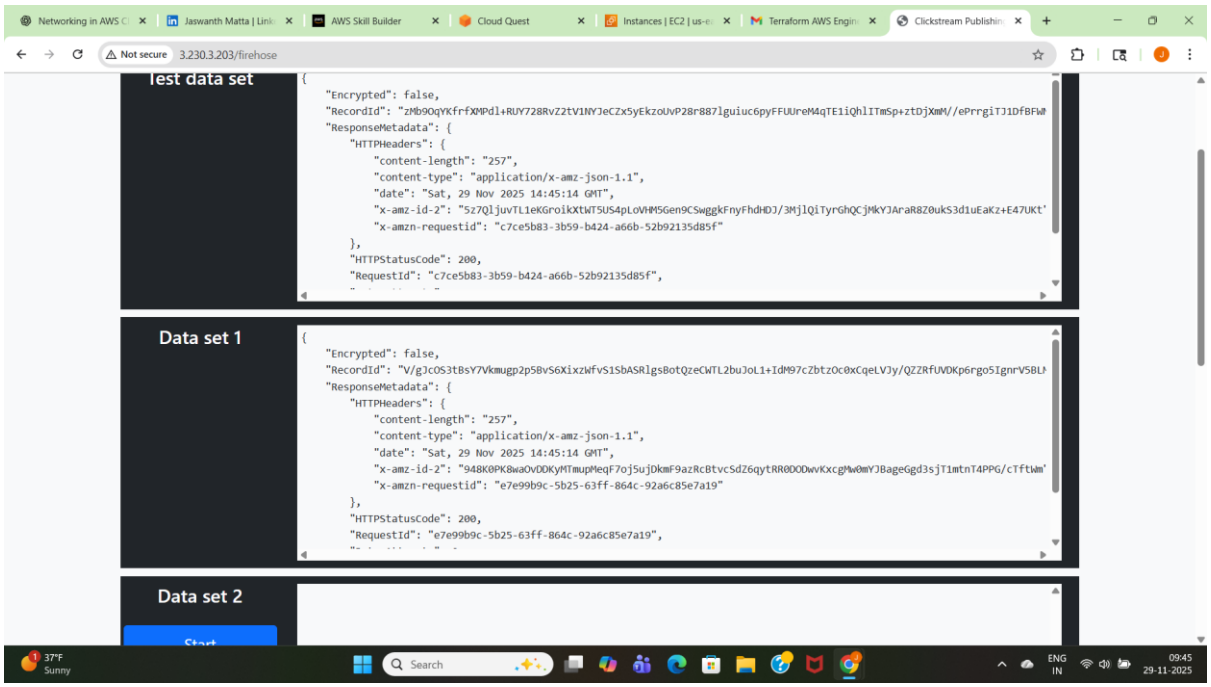
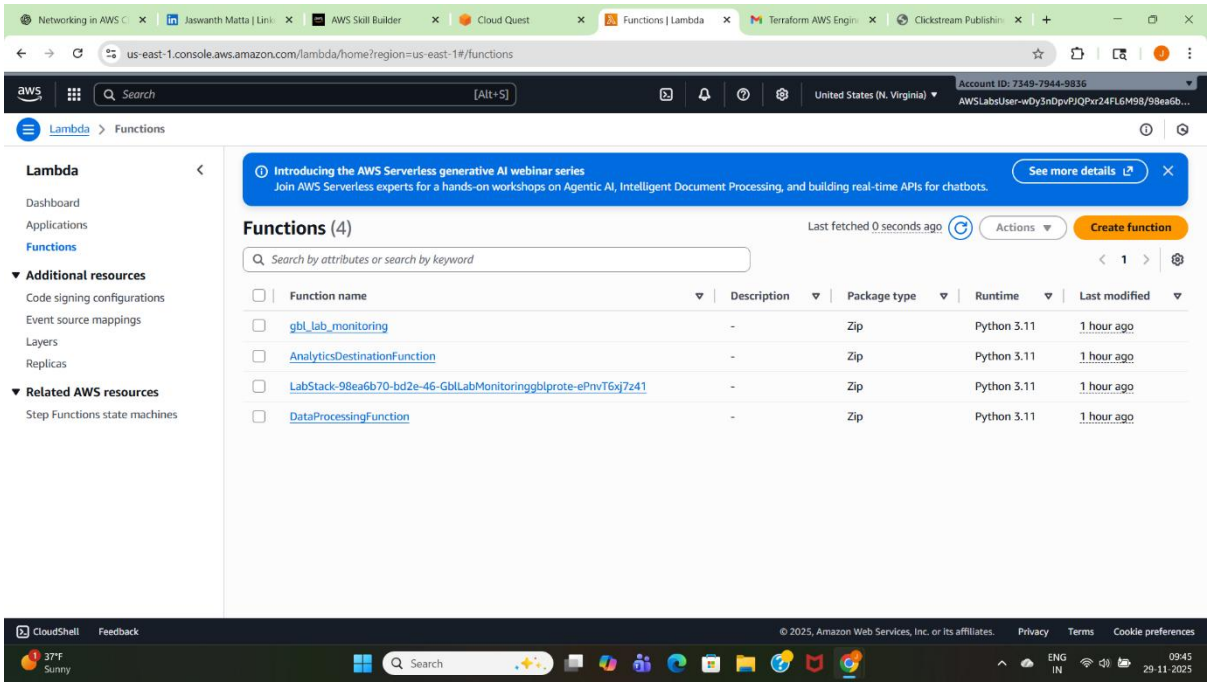
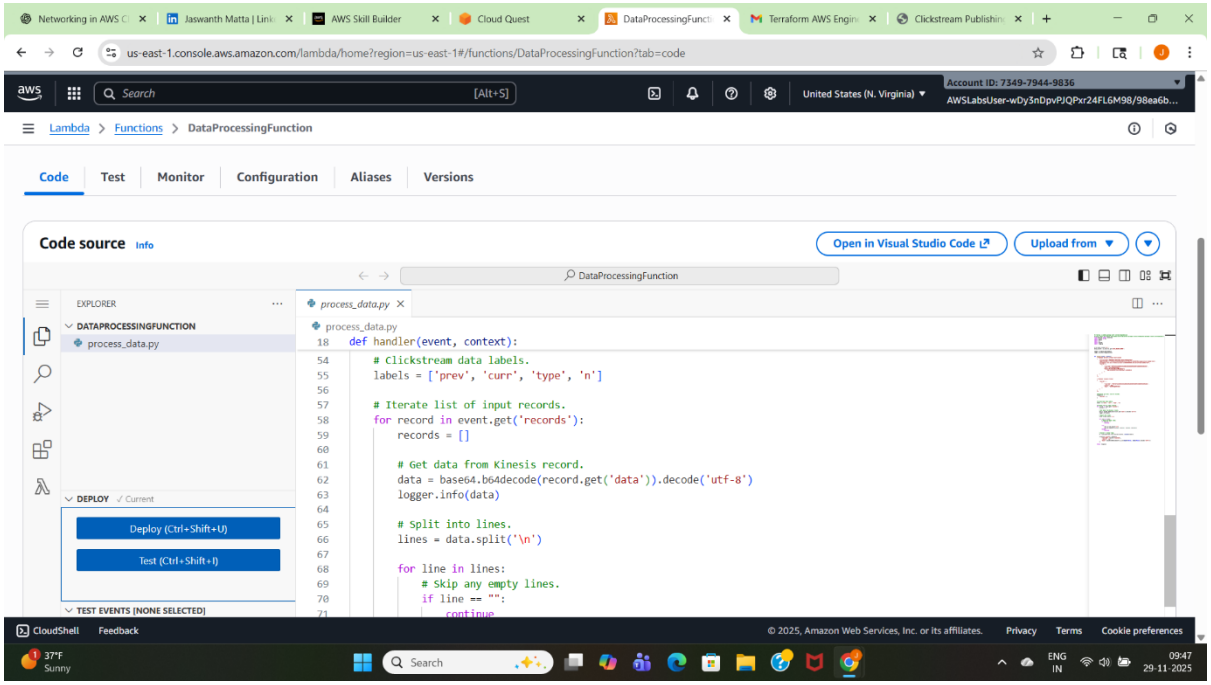
Terms
Cookie preferences
37°F
Sunny
Search
ENG
IN
09:42
29-11-2025

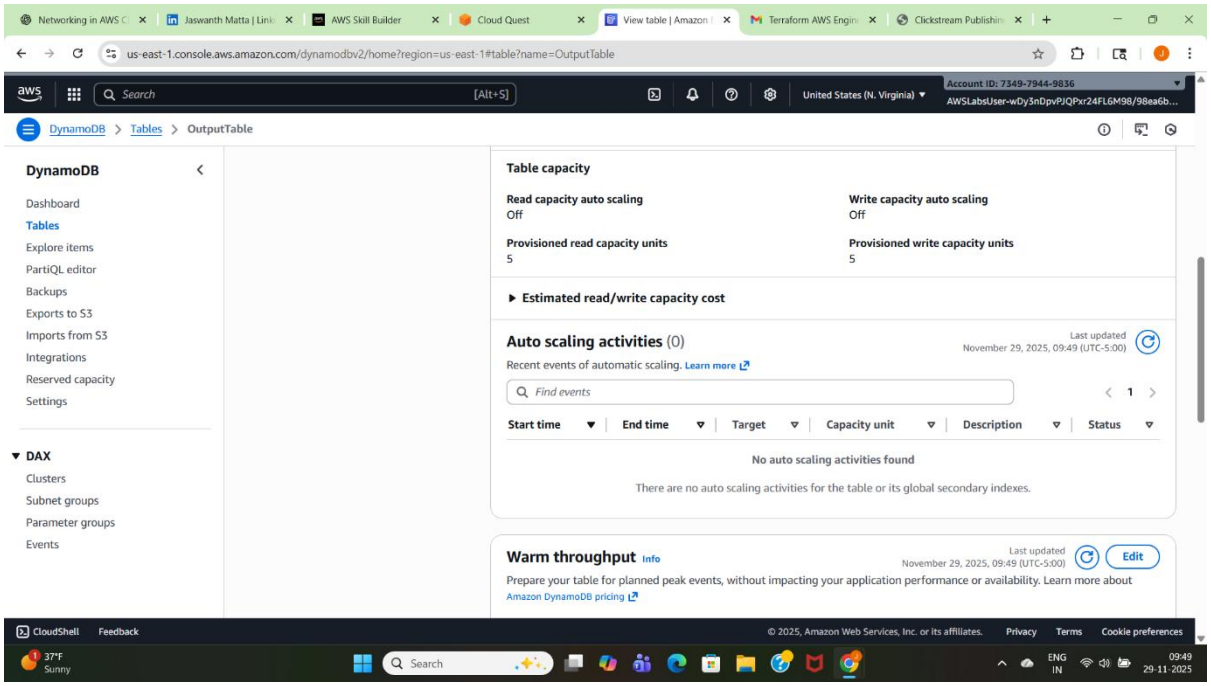

Not secure
3.230.3.203/firehose
Clickstream Publishing System
Press the button below to send a sample set of data to your delivery stream. This will be used by your Amazon Kinesis Data Analytics application for schema discovery.
Start test data stream
Start
37°F
Sunny
Search
ENG
IN
09:43
29-11-2025


Networking in AWS C
Jaswanth Matta | Link
AWS Skill Builder
Cloud Quest
Instances | EC2 | us-e
Terraform AWS Engin
Clickstream Publishin
Not secure
3.230.3.203/firehose
Clickstream Publishing System
Press the button below to send a sample set of data to your delivery stream. This will be used by your Amazon Kinesis Data Analytics application for schema discovery.
Test data set
{
"Encrypted": false,
"RecordId": "XRuMWFFpRpok+EiyBxPvUil0OUgG0rInY1f16kQUDsY0/9tE9DQGdWQ7oPMSb3HvuMzehIGBGd48m7OnDjpQjXo5WvrppJTVxBSR91jkPQ
"ResponseMetadata": {
"HTTPHeaders": {
"content-length": "257",
"content-type": "application/x-amz-json-1.1",
"date": "Sat, 29 Nov 2025 14:44:51 GMT",
"x-amz-id-2": "vHUUUT1RZ5j6eNBA9BKaqtSy8o+4Y/cfEvpAR7Ol3qCaf4JTMY9pSgDhGGsBiDt8b9sq+J7MgpniS8czaFlN3jUfqduypfew
"x-amzn-requestid": "c94e7fcc-199e-c280-a8eb-76ef03f2aefb"
},
"HTTPStatusCode": 200,
"RequestId": "c94e7fcc-199e-c280-a8eb-76ef03f2aefb",
Data set 1
Start
37°F
Sunny
Search
ENG
IN
09:44
29-11-2025


Networking in AWS C
Jaswanth Matta | Link
AWS Skill Builder
Cloud Quest
Instances | EC2 | us-e
Terraform AWS Engin
Clickstream Publishin
Not secure
3.230.3.203/firehose
Test data set
{
"Encrypted": false,
"RecordId": "zMb9OqYKfrfXMPdl+RUY728RvZ2tV1NYJeCZx5yEkzoUvP28r887lguiuc6pyFFUUreM4qTE1iQhlITmSp+ztDjXmM//ePrrgiTJ1DfBFW
"ResponseMetadata": {
"HTTPHeaders": {
"content-length": "257",
"content-type": "application/x-amz-json-1.1",
"date": "Sat, 29 Nov 2025 14:45:14 GMT",
"x-amz-id-2": "5z7QljuvTL1eKGroikXtWT5US4pLoVHM5Gen9CSwggkFnyFhdHDJ/3MjlQiTyrGhQCjMkYJAraR8Z0ukS3d1uEaKz+E47UKt
"x-amzn-requestid": "c7ce5b83-3b59-b424-a66b-52b92135d85f"
},
"HTTPStatusCode": 200,
"RequestId": "c7ce5b83-3b59-b424-a66b-52b92135d85f",
Data set 1
{
"Encrypted": false,
"RecordId": "V/gJcOS3tBsY7Vkmugp2p5BvS6XixzWfvS1SbASRlgsBotQzeCWTL2buJoL1+IdM97cZbtzOc0xCqeLVJy/QZZRfUVDKp6rgo5IgnrV5BL
"ResponseMetadata": {
"HTTPHeaders": {
"content-length": "257",
"content-type": "application/x-amz-json-1.1",
"date": "Sat, 29 Nov 2025 14:45:14 GMT",
"x-amz-id-2": "948K0PK8waOvDDKyMTmupMeqF7oj5ujDkmF9azRcBtvcSdZ6qytRR0DODwvKxcgMw0mYJBageGgd3sjT1mtnT4PPG/cTftWm
"x-amzn-requestid": "e7e99b9c-5b25-63ff-864c-92a6c85e7a19"
},
"HTTPStatusCode": 200,
"RequestId": "e7e99b9c-5b25-63ff-864c-92a6c85e7a19",
Data set 2
37°F
Sunny
Search
ENG
IN
09:45
29-11-2025


us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions
Lambda > Functions
Introducing the AWS Serverless generative AI webinar series
Join AWS Serverless experts for a hands-on workshops on Agentic AI, Intelligent Document Processing, and building real-time APIs for chatbots.
See more details
Functions (4)
Last fetched 0 seconds ago
Actions
Create function
Search by attributes or search by keyword
Function name
Description
Package type
Runtime
Last modified
gbl_lab_monitoring
AnalyticsDestinationFunction
LabStack-98ea6b70-bd2e-46-GblLabMonitoringgblprote-ePnvT6xj7z41
DataProcessingFunction
Zip
Python 3.11
1 hour ago


us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/DataProcessingFunction?tab=code
Lambda > Functions > DataProcessingFunction
Code
Test
Monitor
Configuration
Aliases
Versions
Code source
Info
Open in Visual Studio Code
Upload from
DataProcessingFunction
process_data.py
Deploy (Ctrl+Shift+U)
Test (Ctrl+Shift+I)
def handler(event, context):
# Clickstream data labels.
labels = ['prev', 'curr', 'type', 'n']
# Iterate list of input records.
for record in event.get('records'):
records = []
# Get data from Kinesis record.
data = base64.b64decode(record.get('data')).decode('utf-8')
logger.info(data)
# Split into lines.
lines = data.split('\n')
for line in lines:
# Skip any empty lines.
if line == "":
continue


us-east-1.console.aws.amazon.com/dynamodbv2/home?region=us-east-1#table?name=OutputTable
DynamoDB > Tables > OutputTable
DynamoDB
Dashboard
Tables
Explore items
PartiQL editor
Backups
Exports to S3
Imports from S3
Integrations
Reserved capacity
Settings
DAX
Clusters
Subnet groups
Parameter groups
Events
Table capacity
Read capacity auto scaling
Off
Write capacity auto scaling
Off
Provisioned read capacity units
5
Provisioned write capacity units
5
Estimated read/write capacity cost
Auto scaling activities (0)
Recent events of automatic scaling. Learn more
Last updated
November 29, 2025, 09:49 (UTC-5:00)
Find events
Start time
End time
Target
Capacity unit
Description
Status
No auto scaling activities found
There are no auto scaling activities for the table or its global secondary indexes.
Warm throughput Info
Prepare your table for planned peak events, without impacting your application performance or availability. Learn more about Amazon DynamoDB pricing
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CloudShell
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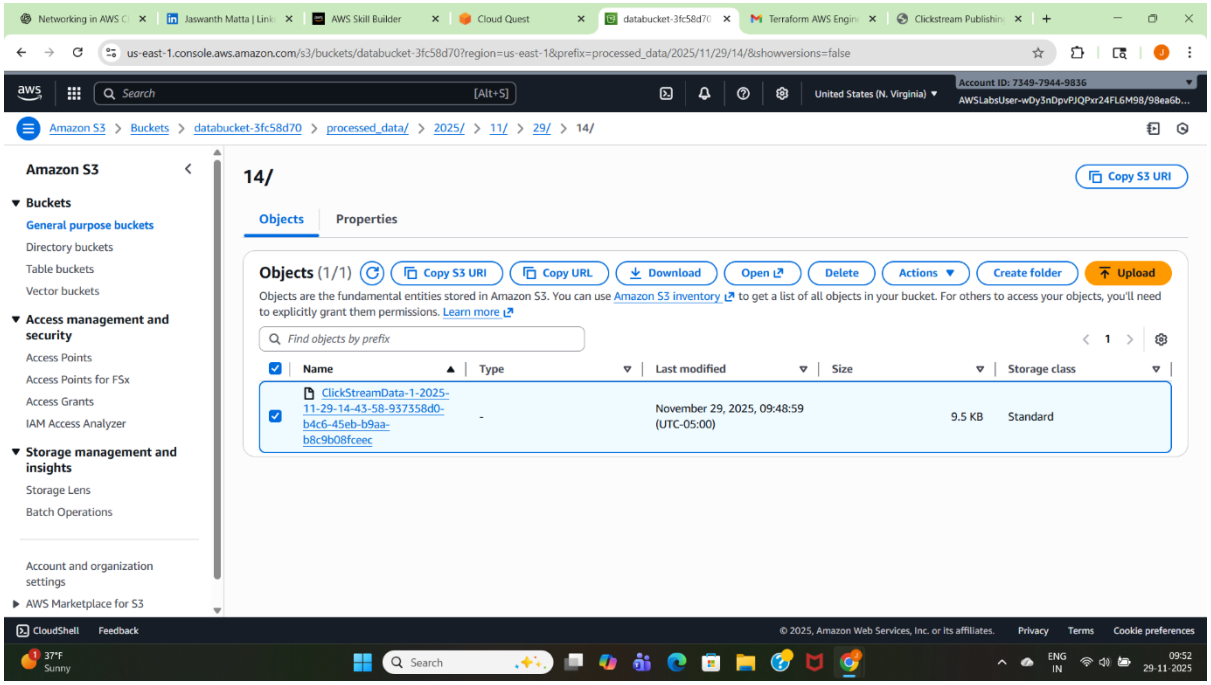
us-east-1.console.aws.amazon.com/s3/buckets/databucket-3fc58d70?region=us-east-1&prefix=processed_data/2025/11/29/14/&showversions=false
Amazon S3 > Buckets > databucket-3fc58d70 > processed_data/ > 2025/ > 11/ > 29/ > 14/
Amazon S3
Buckets
General purpose buckets
Directory buckets
Table buckets
Vector buckets
Access management and security
Access Points
Access Points for FSx
Access Grants
IAM Access Analyzer
Storage management and insights
Storage Lens
Batch Operations
Account and organization settings
AWS Marketplace for S3
14/
Copy S3 URI
Objects
Properties
Objects (1/1)
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Objects are the fundamental entities stored in Amazon S3. You can use Amazon S3 inventory to get a list of all objects in your bucket. For others to access your objects, you'll need to explicitly grant them permissions. Learn more
Find objects by prefix
Name
Type
Last modified
Size
Storage class
ClickStreamData-1-2025-11-29-14-43-58-937358d0-b4c6-45eb-b9aa-b8c9b08fceec
-
November 29, 2025, 09:48:59 (UTC-05:00)
9.5 KB
Standard
CloudShell
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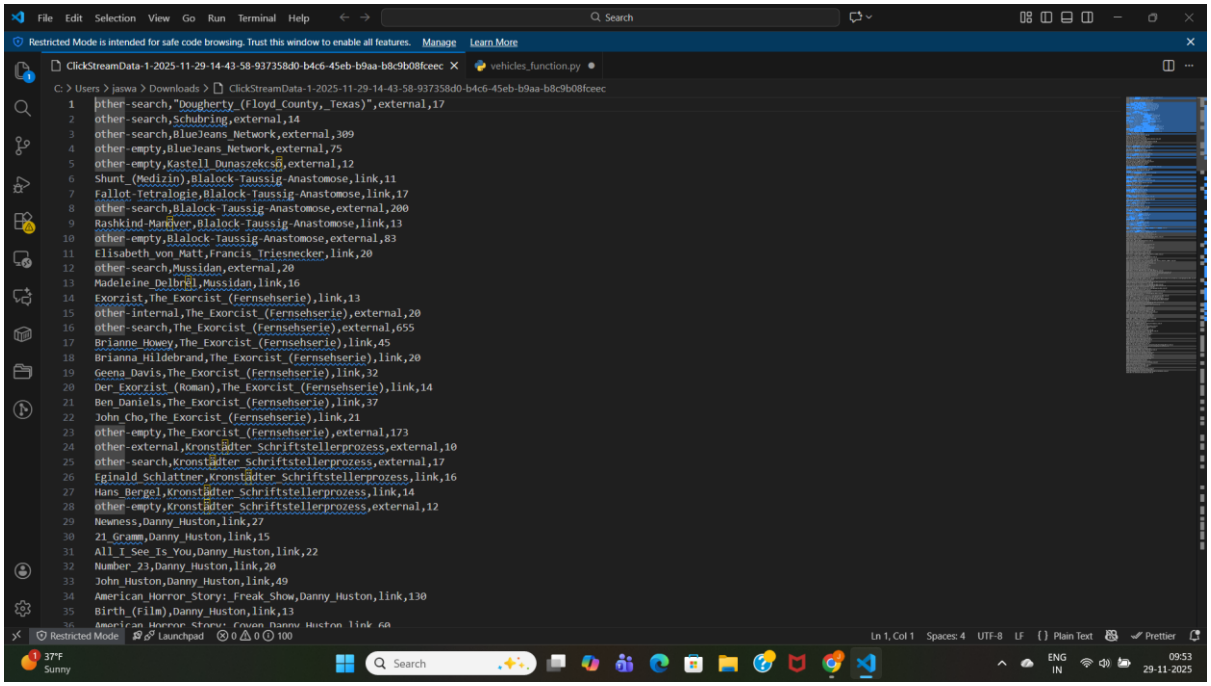
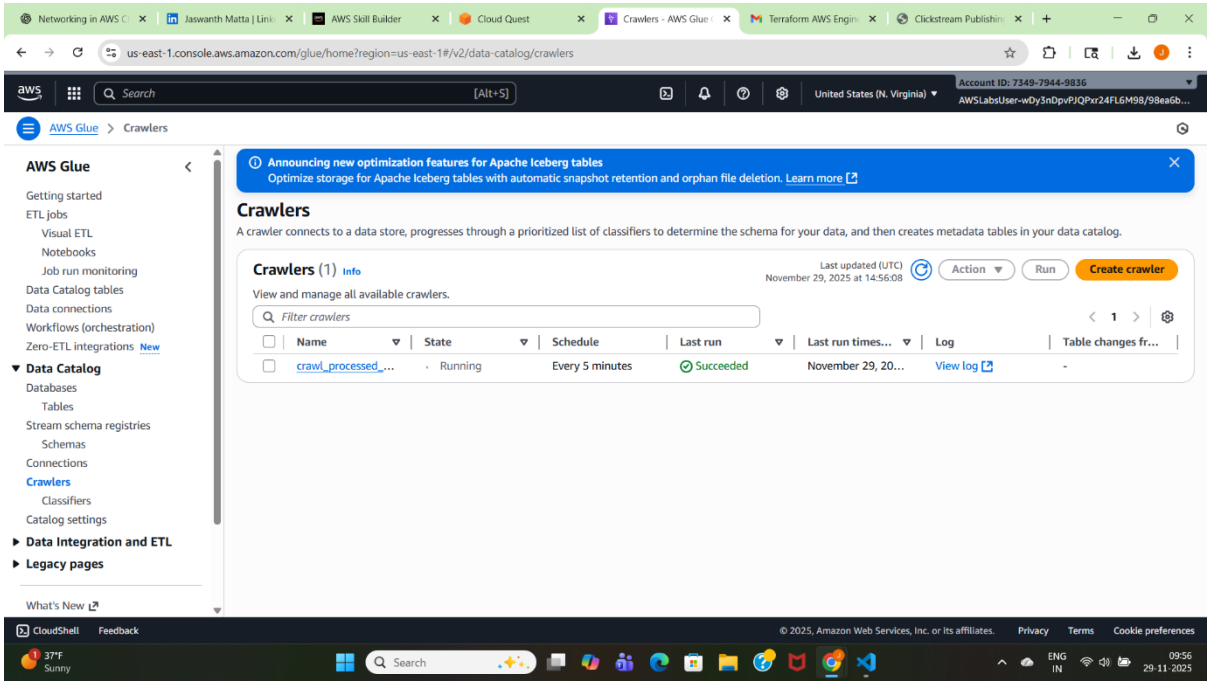

File Edit Selection View Go Run Terminal Help
Search
Restricted Mode is intended for safe code browsing. Trust this window to enable all features. Manage Learn More
ClickStreamData-1-2025-11-29-14-43-58-937358d0-b4c6-45eb-b9aa-b8c9b08fceec
vehicles_function.py
C: > Users > jaswa > Downloads > ClickStreamData-1-2025-11-29-14-43-58-937358d0-b4c6-45eb-b9aa-b8c9b08fceec
other-search,"Dougherty_(Floyd_County,_Texas)",external,17
other-search,Schubring,external,14
other-search,BlueJeans_Network,external,309
other-empty,BlueJeans_Network,external,75
other-empty,Kastell_Dunaszekcső,external,12
Shunt_(Medizin),Blalock-Taussig-Anastomose,link,11
Fallot-Tetralogie,Blalock-Taussig-Anastomose,link,17
other-search,Blalock-Taussig-Anastomose,external,200
Rashkind-Manöver,Blalock-Taussig-Anastomose,link,13
other-empty,Blalock-Taussig-Anastomose,external,83
Elisabeth_von_Matt,Francis_Triesnecker,link,20
other-search,Mussidan,external,20
Madeleine_Delbrêl,Mussidan,link,16
Exorzist,The_Exorcist_(Fernsehserie),link,13
other-internal,The_Exorcist_(Fernsehserie),external,20
other-search,The_Exorcist_(Fernsehserie),external,655
Brianne_Howey,The_Exorcist_(Fernsehserie),link,45
Brianna_Hildebrand,The_Exorcist_(Fernsehserie),link,20
Geena_Davis,The_Exorcist_(Fernsehserie),link,32
Der_Exorzist_(Roman),The_Exorcist_(Fernsehserie),link,14
Ben_Daniels,The_Exorcist_(Fernsehserie),link,37
John_Cho,The_Exorcist_(Fernsehserie),link,21
other-empty,The_Exorcist_(Fernsehserie),external,173
other-external,Kronstädter_Schriftstellerprozess,external,10
other-search,Kronstädter_Schriftstellerprozess,external,17
Eginald_Schlattner,Kronstädter_Schriftstellerprozess,link,16
Hans_Bergel,Kronstädter_Schriftstellerprozess,link,14
other-empty,Kronstädter_Schriftstellerprozess,external,12
Newness,Danny_Huston,link,27
21_Gramm,Danny_Huston,link,15
All_I_See_Is_You,Danny_Huston,link,22
Number_23,Danny_Huston,link,20
John_Huston,Danny_Huston,link,49
American_Horror_Story:_Freak_Show,Danny_Huston,link,130
Birth_(Film),Danny_Huston,link,13
American_Horror_Story:_Coven,Danny_Huston,link,60
Restricted Mode Launchpad
Ln 1, Col 1 Spaces: 4 UTF-8 LF Plain Text Prettier
37°F Sunny
Search
ENG IN
09:53 29-11-2025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Terraform AWS Engin
Clickstream Publishin
us-east-1.console.aws.amazon.com/glue/home?region=us-east-1#/v2/data-catalog/crawlers
Search [Alt+S]
United States (N. Virginia)
Account ID: 7349-7944-9836
AWSLabsUser-wDy3nDpvPJQPxr24FL6M98/98ea6b...
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What's New
Announcing new optimization features for Apache Iceberg tables
Optimize storage for Apache Iceberg tables with automatic snapshot retention and orphan file deletion. Learn more
Crawlers
A crawler connects to a data store, progresses through a prioritized list of classifiers to determine the schema for your data, and then creates metadata tables in your data catalog.
Crawlers (1) Info
View and manage all available crawlers.
Last updated (UTC) November 29, 2025 at 14:56:08
Action
Run
Create crawler
Filter crawlers
Name
State
Schedule
Last run
Last run times...
Log
Table changes fr...
crawl_processed_...
Running
Every 5 minutes
Succeeded
November 29, 20...
View log
-
CloudShell
Feedback
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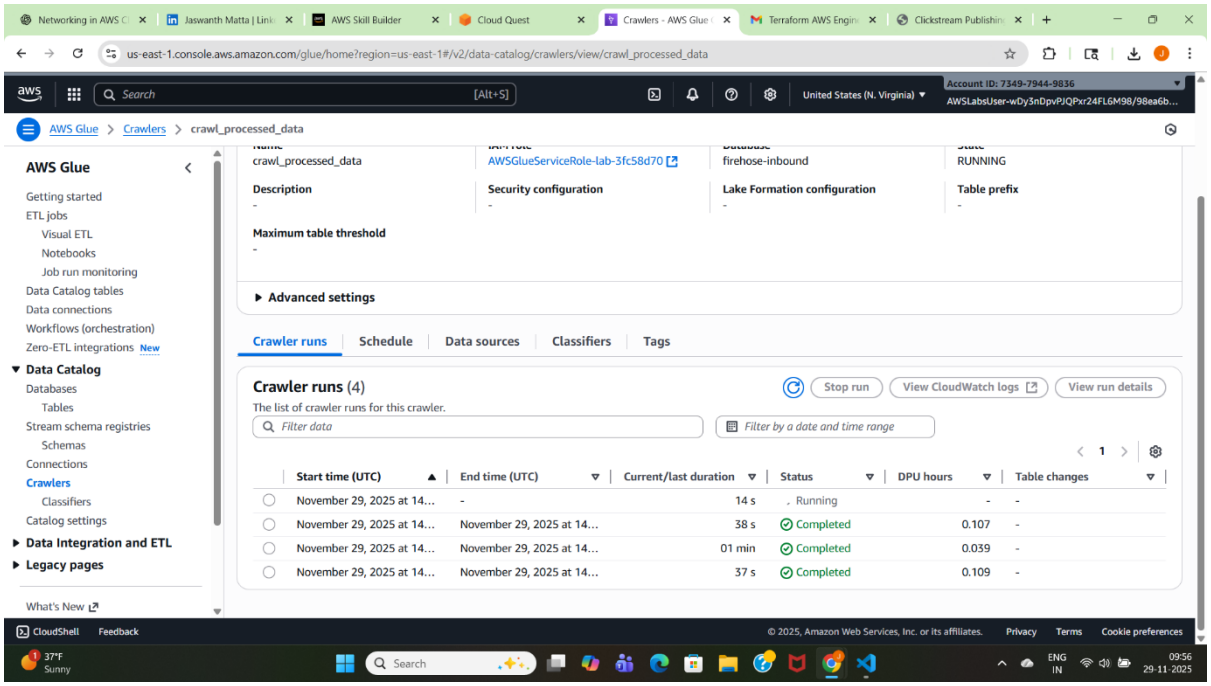
37°F Sunny
Search
ENG IN
09:56 29-11-2025


us-east-1.console.aws.amazon.com/glue/home?region=us-east-1#/v2/data-catalog/crawlers/view/crawl_processed_data
AWS Glue > Crawlers > crawl_processed_data
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AWSGlueServiceRole-lab-3fc58d70
firehose-inbound
RUNNING
Description
Security configuration
Lake Formation configuration
Table prefix
Maximum table threshold
Advanced settings
Crawler runs
Schedule
Data sources
Classifiers
Tags
Crawler runs (4)
The list of crawler runs for this crawler.
Stop run
View CloudWatch logs
View run details
Filter data
Filter by a date and time range
Start time (UTC)
End time (UTC)
Current/last duration
Status
DPU hours
Table changes
November 29, 2025 at 14... - 14 s Running - -
November 29, 2025 at 14... November 29, 2025 at 14... 38 s Completed 0.107 -
November 29, 2025 at 14... November 29, 2025 at 14... 01 min Completed 0.039 -
November 29, 2025 at 14... November 29, 2025 at 14... 37 s Completed 0.109 -
CloudShell
Feedback
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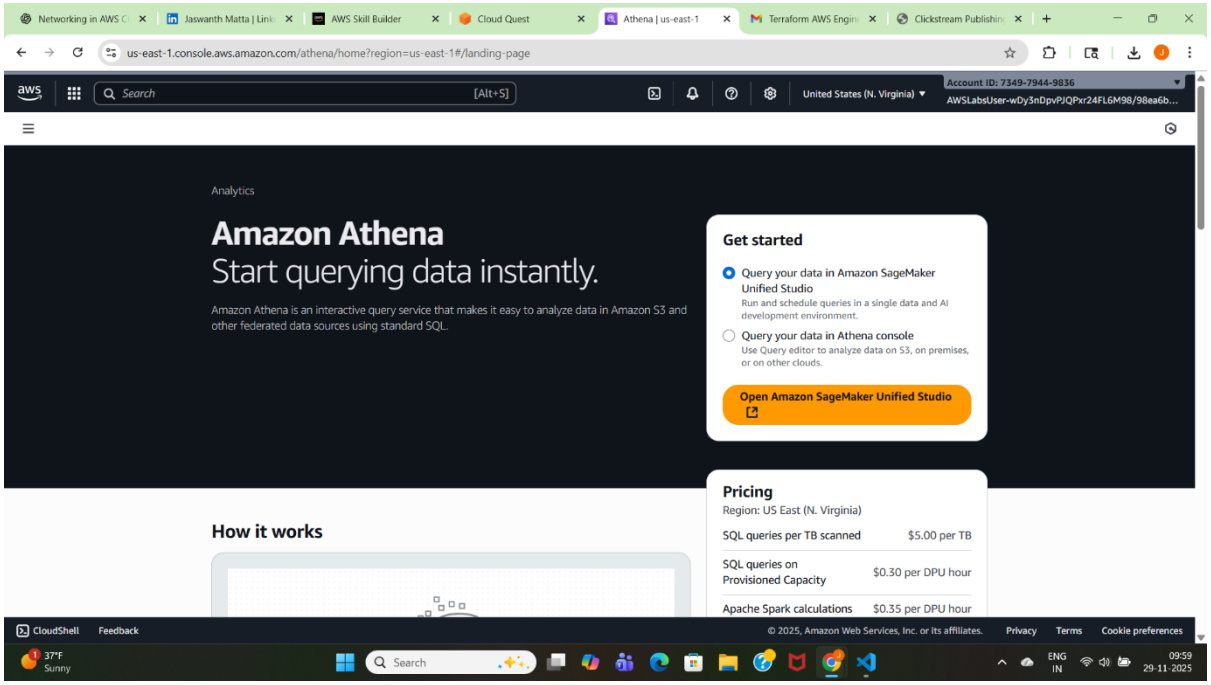
us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/landing-page
Analytics
Amazon Athena
Start querying data instantly.
Amazon Athena is an interactive query service that makes it easy to analyze data in Amazon S3 and other federated data sources using standard SQL.
Get started
Query your data in Amazon SageMaker Unified Studio
Run and schedule queries in a single data and AI development environment.
Query your data in Athena console
Use Query editor to analyze data on S3, on premises, or on other clouds.
Open Amazon SageMaker Unified Studio
Pricing
Region: US East (N. Virginia)
SQL queries per TB scanned $5.00 per TB
SQL queries on Provisioned Capacity $0.30 per DPU hour
Apache Spark calculations $0.35 per DPU hour
How it works
CloudShell
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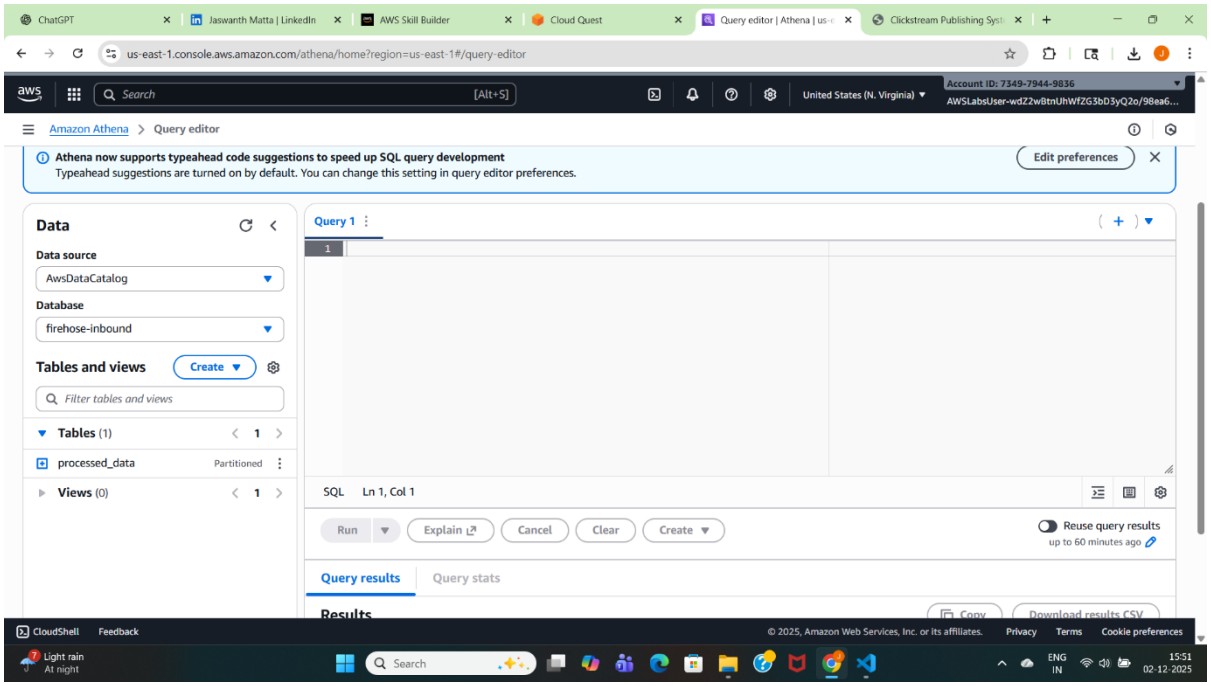
ChatGPT
Jaswanth Matta | LinkedIn
AWS Skill Builder
Cloud Quest
Query editor | Athena | us-
Clickstream Publishing Syst
us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor
Search
[Alt+S]
United States (N. Virginia)
Account ID: 7349-7944-9836
AWSLabsUser-wdZ2wBtnUhWfZG3bD3yQ2o/98ea6...
Amazon Athena
Query editor
Athena now supports typeahead code suggestions to speed up SQL query development
Typeahead suggestions are turned on by default. You can change this setting in query editor preferences.
Edit preferences
Data
Data source
AwsDataCatalog
Database
firehose-inbound
Tables and views
Create
Filter tables and views
Tables (1)
processed_data
Partitioned
Views (0)
Query 1
SQL
Ln 1, Col 1
Run
Explain
Cancel
Clear
Create
Reuse query results
up to 60 minutes ago
Query results
Query stats
Results
Copy
Download results CSV
CloudShell
Feedback
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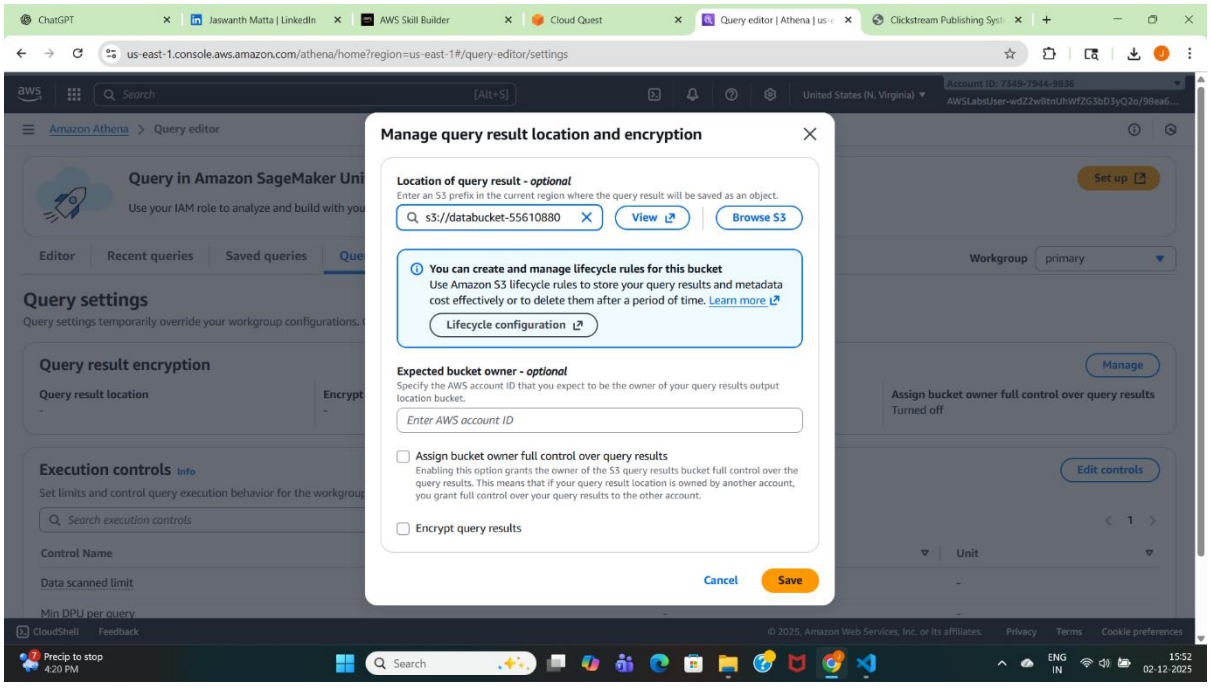
Privacy
Terms
Cookie preferences
Light rain
At night
Search
ENG
IN
15:51
02-12-2025


ChatGPT
Jaswanth Matta | LinkedIn
AWS Skill Builder
Cloud Quest
Query editor | Athena | us-
Clickstream Publishing Syst
us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/settings
Amazon Athena
Query editor
Manage query result location and encryption
Location of query result - optional
Enter an S3 prefix in the current region where the query result will be saved as an object.
s3://databucket-55610880
View
Browse S3
You can create and manage lifecycle rules for this bucket
Use Amazon S3 lifecycle rules to store your query results and metadata cost effectively or to delete them after a period of time. Learn more
Lifecycle configuration
Expected bucket owner - optional
Specify the AWS account ID that you expect to be the owner of your query results output location bucket.
Enter AWS account ID
Assign bucket owner full control over query results
Enabling this option grants the owner of the S3 query results bucket full control over the query results. This means that if your query result location is owned by another account, you grant full control over your query results to the other account.
Encrypt query results
Cancel
Save
Query in Amazon SageMaker Uni
Use your IAM role to analyze and build with you
Set up
Editor
Recent queries
Saved queries
Workgroup
primary
Query settings
Query settings temporarily override your workgroup configurations.
Query result encryption
Manage
Query result location
Assign bucket owner full control over query results
Turned off
Execution controls
Info
Edit controls
Set limits and control query execution behavior for the workgroup
Search execution controls
Control Name
Unit
Data scanned limit
Min DPU per query
CloudShell
Feedback
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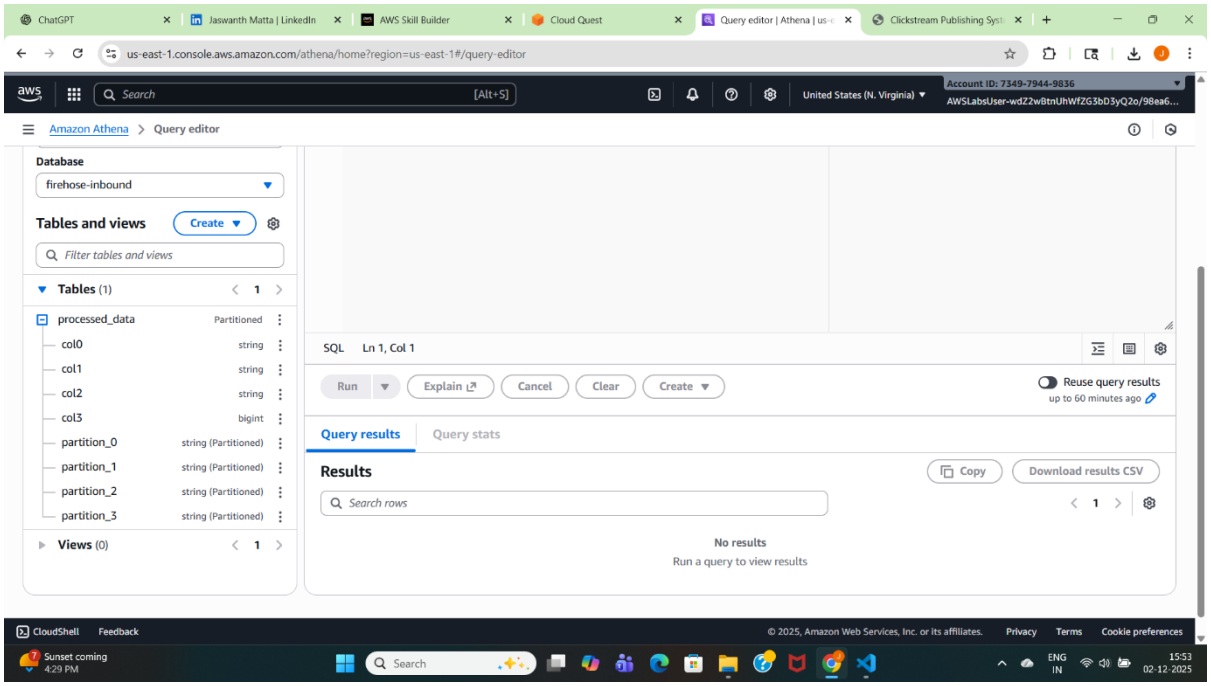
Cookie preferences
Precip to stop
4:20 PM
Search
ENG
IN
15:52
02-12-2025


us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor
Amazon Athena > Query editor
Database
firehose-inbound
Tables and views
Create
Filter tables and views
Tables (1)
processed_data Partitioned
col0 string
col1 string
col2 string
col3 bigint
partition_0 string (Partitioned)
partition_1 string (Partitioned)
partition_2 string (Partitioned)
partition_3 string (Partitioned)
Views (0)
SQL Ln 1, Col 1
Run
Explain
Cancel
Clear
Create
Reuse query results
up to 60 minutes ago
Query results
Query stats
Results
Copy
Download results CSV
Search rows
No results
Run a query to view results
CloudShell
Feedback
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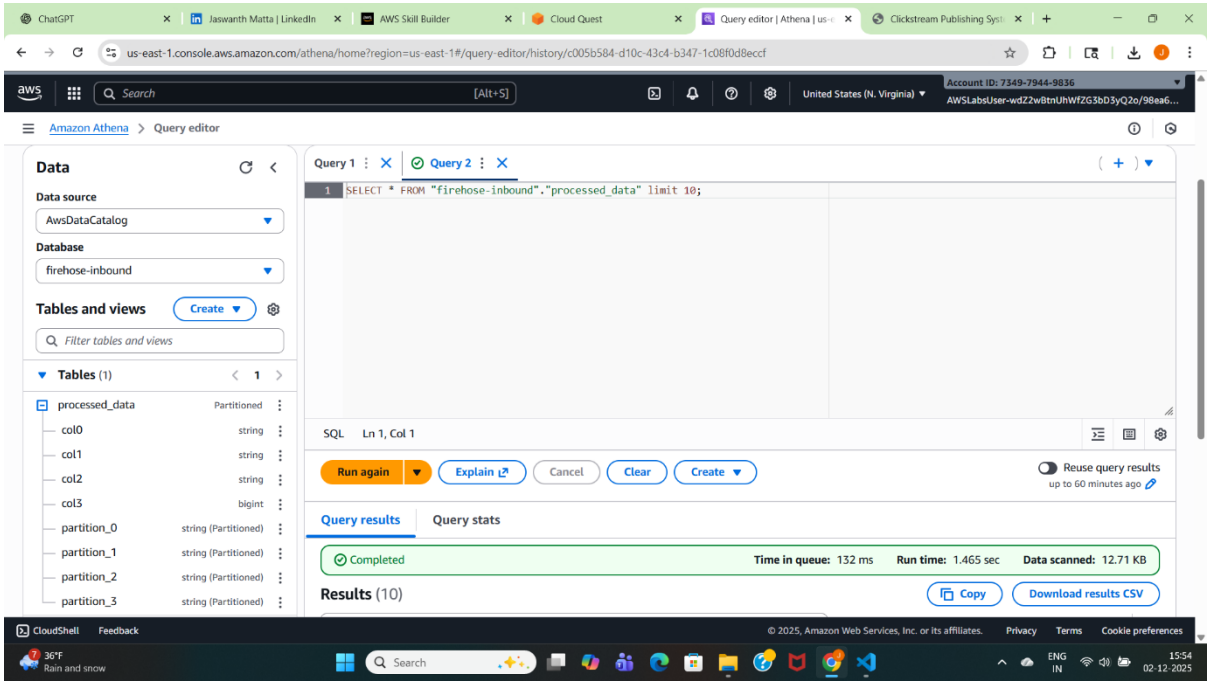
us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history/c005b584-d10c-43c4-b347-1c08f0d8eccf
Amazon Athena > Query editor
Data
Data source
AwsDataCatalog
Database
firehose-inbound
Tables and views
Create
Filter tables and views
Tables (1)
processed_data Partitioned
col0 string
col1 string
col2 string
col3 bigint
partition_0 string (Partitioned)
partition_1 string (Partitioned)
partition_2 string (Partitioned)
partition_3 string (Partitioned)
Query 1
Query 2
SELECT * FROM "firehose-inbound"."processed_data" limit 10;
SQL Ln 1, Col 1
Run again
Explain
Cancel
Clear
Create
Reuse query results
up to 60 minutes ago
Query results
Query stats
Completed
Time in queue: 132 ms
Run time: 1.465 sec
Data scanned: 12.71 KB
Results (10)
Copy
Download results CSV
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Feedback
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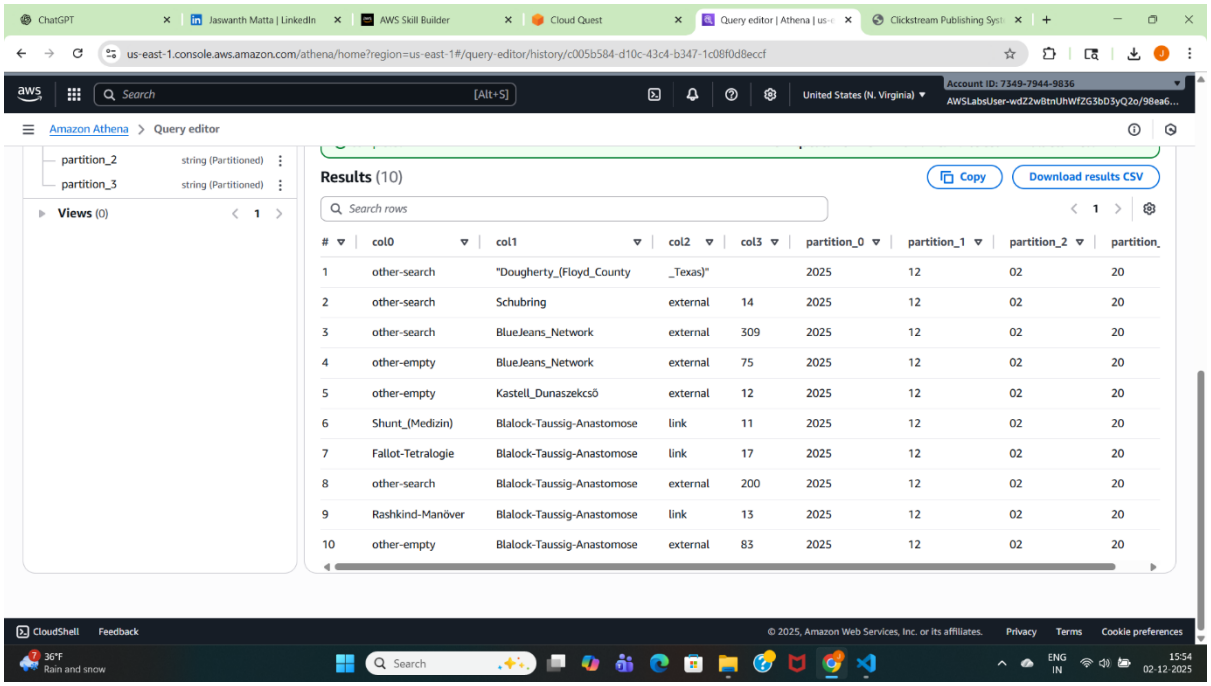
us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history/c005b584-d10c-43c4-b347-1c08f0d8eccf
Amazon Athena > Query editor
partition_2 string (Partitioned)
partition_3 string (Partitioned)
Views (0)
Results (10)
Copy
Download results CSV
Search rows
col0 col1 col2 col3 partition_0 partition_1 partition_2 partition_
1 other-search "Dougherty_(Floyd_County _Texas)" 2025 12 02 20
2 other-search Schubring external 14 2025 12 02 20
3 other-search BlueJeans_Network external 309 2025 12 02 20
4 other-empty BlueJeans_Network external 75 2025 12 02 20
5 other-empty Kastell_Dunaszekcső external 12 2025 12 02 20
6 Shunt_(Medizin) Blalock-Taussig-Anastomose link 11 2025 12 02 20
7 Fallot-Tetralogie Blalock-Taussig-Anastomose link 17 2025 12 02 20
8 other-search Blalock-Taussig-Anastomose external 200 2025 12 02 20
9 Rashkind-Manöver Blalock-Taussig-Anastomose link 13 2025 12 02 20
10 other-empty Blalock-Taussig-Anastomose external 83 2025 12 02 20
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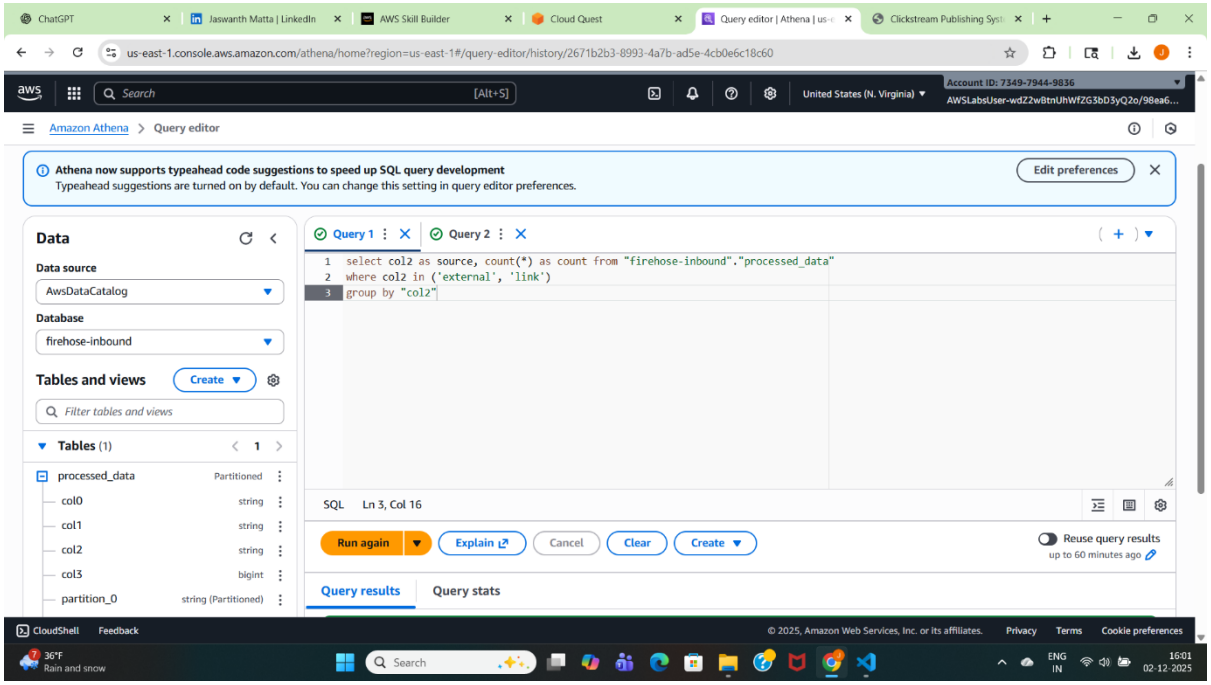
us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history/2671b2b3-8993-4a7b-ad5e-4cb0e6c18c60
Amazon Athena > Query editor
Athena now supports typeahead code suggestions to speed up SQL query development
Typeahead suggestions are turned on by default. You can change this setting in query editor preferences.
Edit preferences
Data
Data source
AwsDataCatalog
Database
firehose-inbound
Tables and views
Create
Filter tables and views
Tables (1)
processed_data Partitioned
col0 string
col1 string
col2 string
col3 bigint
partition_0 string (Partitioned)
Query 1
Query 2
1 select col2 as source, count(*) as count from "firehose-inbound"."processed_data"
2 where col2 in ('external', 'link')
3 group by "col2"
SQL Ln 3, Col 16
Run again
Explain
Cancel
Clear
Create
Reuse query results
up to 60 minutes ago
Query results
Query stats
CloudShell Feedback
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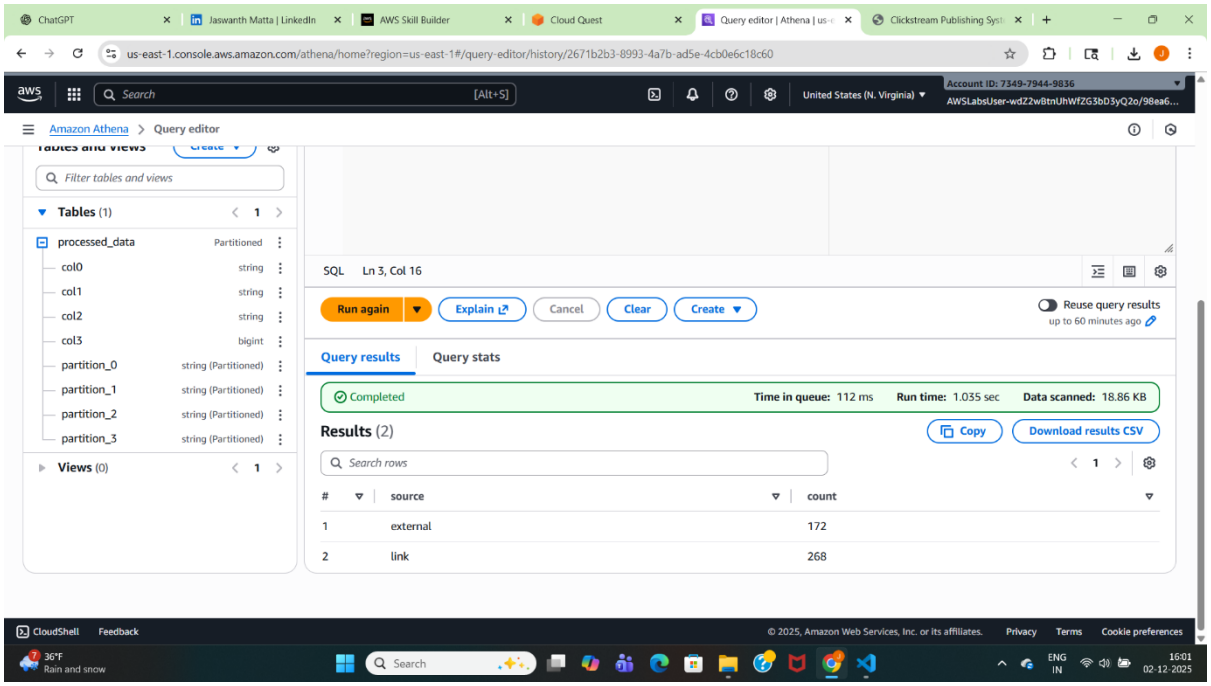
us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history/2671b2b3-8993-4a7b-ad5e-4cb0e6c18c60
Amazon Athena > Query editor
Filter tables and views
Tables (1)
processed_data Partitioned
col0 string
col1 string
col2 string
col3 bigint
partition_0 string (Partitioned)
partition_1 string (Partitioned)
partition_2 string (Partitioned)
partition_3 string (Partitioned)
Views (0)
SQL Ln 3, Col 16
Run again
Explain
Cancel
Clear
Create
Reuse query results
up to 60 minutes ago
Query results
Query stats
Completed
Time in queue: 112 ms
Run time: 1.035 sec
Data scanned: 18.86 KB
Results (2)
Copy
Download results CSV
Search rows
source count
1 external 172
2 link 268
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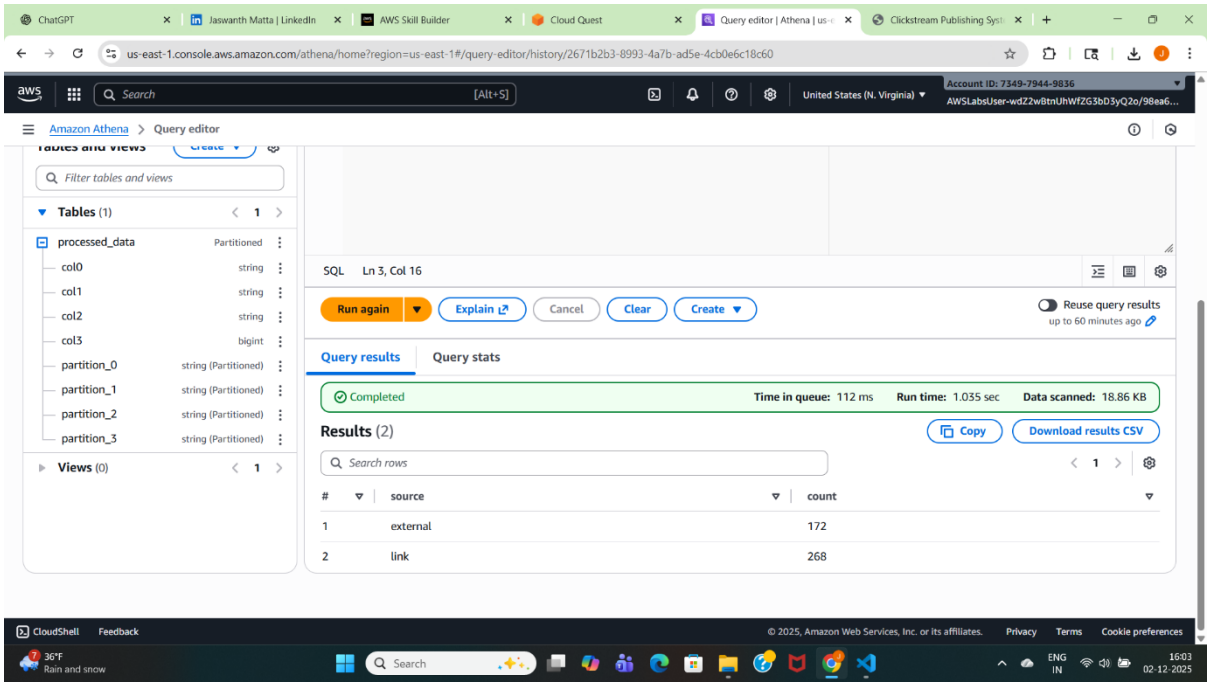
Not secure 3.218.152.119/firehose
"x-amz-id-2": "EMKe73Dl3gI8NFeao8CjlQYzfboQDXXJa0vcyX2FTrCYe5mdeWwWfSouscDwYzNUbufQsFTlsaH9c7SOZBQKMv3AztBVBGt9",
"x-amzn-requestid": "d19f36f9-d3c0-f469-b036-60a9a7736d0c"
},
"HTTPStatusCode": 200,
"RequestId": "d19f36f9-d3c0-f469-b036-60a9a7736d0c",
"RetryAttempts": 0
}
Data set 3
{
"Encrypted": false,
"RecordId": "UPA3gGh8PPYOXlWKCPJkdwSHu1MJmO1Z/NiPSX72EYF3klAiJkfttrPOI3O0VKMCzQNosWyj9wsCEXuE6Ta90Lf5FujfOxIrsh6qTM9bfZ
"ResponseMetadata": {
"HTTPHeaders": {
"content-length": "257",
"content-type": "application/x-amz-json-1.1",
"date": "Tue, 02 Dec 2025 21:03:12 GMT",
"x-amz-id-2": "vNAZqKtA2CYde4VDyEztomaD8TavAub1sQUJ/8ZHaIN+m7SX8rauwmXbKiJGoINYxmDAp0fPADx2LvOWfq4jityIraCuANKV
"x-amzn-requestid": "f57900c2-6a09-b7aa-94d0-5692f7d39960"
},
"HTTPStatusCode": 200,
"RequestId": "f57900c2-6a09-b7aa-94d0-5692f7d39960",
Data set 4
{
"Encrypted": false,
"RecordId": "AXe6rLBDpbQiSlqBflT90yKEbbyoU40X/XYSoGrLqR+KlWwZnzPj1S1i9Oo7u/h89NU1K/xVCgOJTFj7fNCRJfimXjE903Qy+E+fZWC00o
"ResponseMetadata": {
"HTTPHeaders": {
"content-length": "257",
"content-type": "application/x-amz-json-1.1",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AWS Skill Builder
Cloud Quest
Query editor | Athena | us-
Clickstream Publishing Syst
us-east-1.console.aws.amazon.com/athena/home?region=us-east-1#/query-editor/history/2671b2b3-8993-4a7b-ad5e-4cb0e6c18c60
Search [Alt+S]
United States (N. Virginia)
Account ID: 7349-7944-9836
AWSLabsUser-wdZ2wBtnUhWfZG3bD3yQ2o/98ea6...
Amazon Athena > Query editor
Filter tables and views
Tables (1)
processed_data Partitioned
col0 string
col1 string
col2 string
col3 bigint
partition_0 string (Partitioned)
partition_1 string (Partitioned)
partition_2 string (Partitioned)
partition_3 string (Partitioned)
Views (0)
SQL Ln 3, Col 16
Run again
Explain
Cancel
Clear
Create
Reuse query results
up to 60 minutes ago
Query results
Query stats
Completed
Time in queue: 112 ms
Run time: 1.035 sec
Data scanned: 18.86 KB
Results (2)
Copy
Download results CSV
Search rows
source count
1 external 172
2 link 268
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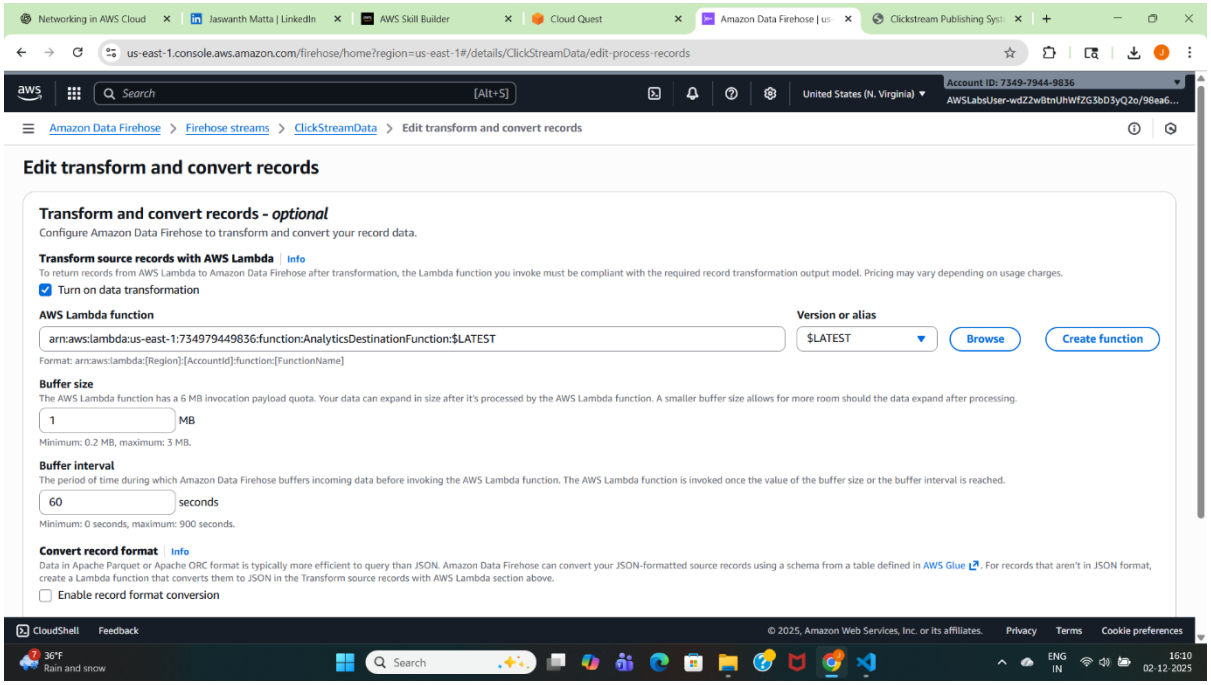
36°F
Rain and snow
Search
ENG
IN
16:03
02-12-2025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Cloud Quest
Amazon Data Firehose | us
Clickstream Publishing Syst
us-east-1.console.aws.amazon.com/firehose/home?region=us-east-1#/details/ClickStreamData/edit-process-records
Search [Alt+S]
United States (N. Virginia)
Account ID: 7349-7944-9836
AWSLabsUser-wdZ2wBtnUhWfZG3bD3yQ2o/98ea6...
Amazon Data Firehose > Firehose streams > ClickStreamData > Edit transform and convert records
Edit transform and convert records
Transform and convert records - optional
Configure Amazon Data Firehose to transform and convert your record data.
Transform source records with AWS Lambda | Info
To return records from AWS Lambda to Amazon Data Firehose after transformation, the Lambda function you invoke must be compliant with the required record transformation output model. Pricing may vary depending on usage charges.
Turn on data transformation
AWS Lambda function
arn:aws:lambda:us-east-1:734979449836:function:AnalyticsDestinationFunction:$LATEST
Version or alias
$LATEST
Browse
Create function
Format: arn:aws:lambda:[Region]:[AccountId]:function:[FunctionName]
Buffer size
The AWS Lambda function has a 6 MB invocation payload quota. Your data can expand in size after it's processed by the AWS Lambda function. A smaller buffer size allows for more room should the data expand after processing.
1
MB
Minimum: 0.2 MB, maximum: 3 MB.
Buffer interval
The period of time during which Amazon Data Firehose buffers incoming data before invoking the AWS Lambda function. The AWS Lambda function is invoked once the value of the buffer size or the buffer interval is reached.
60
seconds
Minimum: 0 seconds, maximum: 900 seconds.
Convert record format | Info
Data in Apache Parquet or Apache ORC format is typically more efficient to query than JSON. Amazon Data Firehose can convert your JSON-formatted source records using a schema from a table defined in AWS Glue. For records that aren't in JSON format, create a Lambda function that converts them to JSON in the Transform source records with AWS Lambda section above.
Enable record format conversion
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Rain and snow
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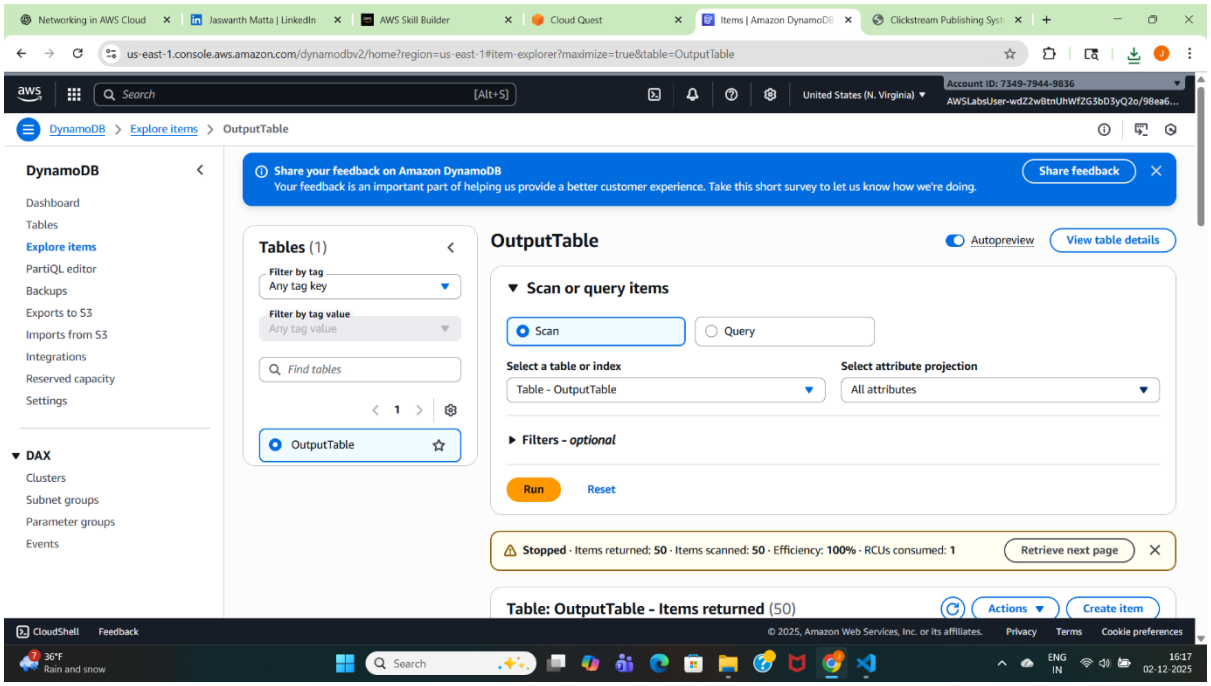
IN
16:10
02-12-2025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AWS Skill Builder
Cloud Quest
Items | Amazon DynamoDB
Clickstream Publishing Syst
us-east-1.console.aws.amazon.com/dynamodbv2/home?region=us-east-1#item-explorer?maximize=true&table=OutputTable
Search [Alt+S]
United States (N. Virginia)
Account ID: 7349-7944-9836
AWSLabsUser-wdZ2wBtnUhWfZG3bD3yQ2o/98ea6...
DynamoDB > Explore items > OutputTable
DynamoDB
Dashboard
Tables
Explore items
PartiQL editor
Backups
Exports to S3
Imports from S3
Integrations
Reserved capacity
Settings
DAX
Clusters
Subnet groups
Parameter groups
Events
Share your feedback on Amazon DynamoDB
Your feedback is an important part of helping us provide a better customer experience. Take this short survey to let us know how we're doing.
Share feedback
Tables (1)
Filter by tag
Any tag key
Filter by tag value
Any tag value
Find tables
1
OutputTable
OutputTable
Autopreview
View table details
Scan or query items
Scan
Query
Select a table or index
Table - OutputTable
Select attribute projection
All attributes
Filters - optional
Run
Reset
Stopped · Items returned: 50 · Items scanned: 50 · Efficiency: 100% · RCUs consumed: 1
Retrieve next page
Table: OutputTable - Items returned (50)
Actions
Create item
CloudShell
Feedback
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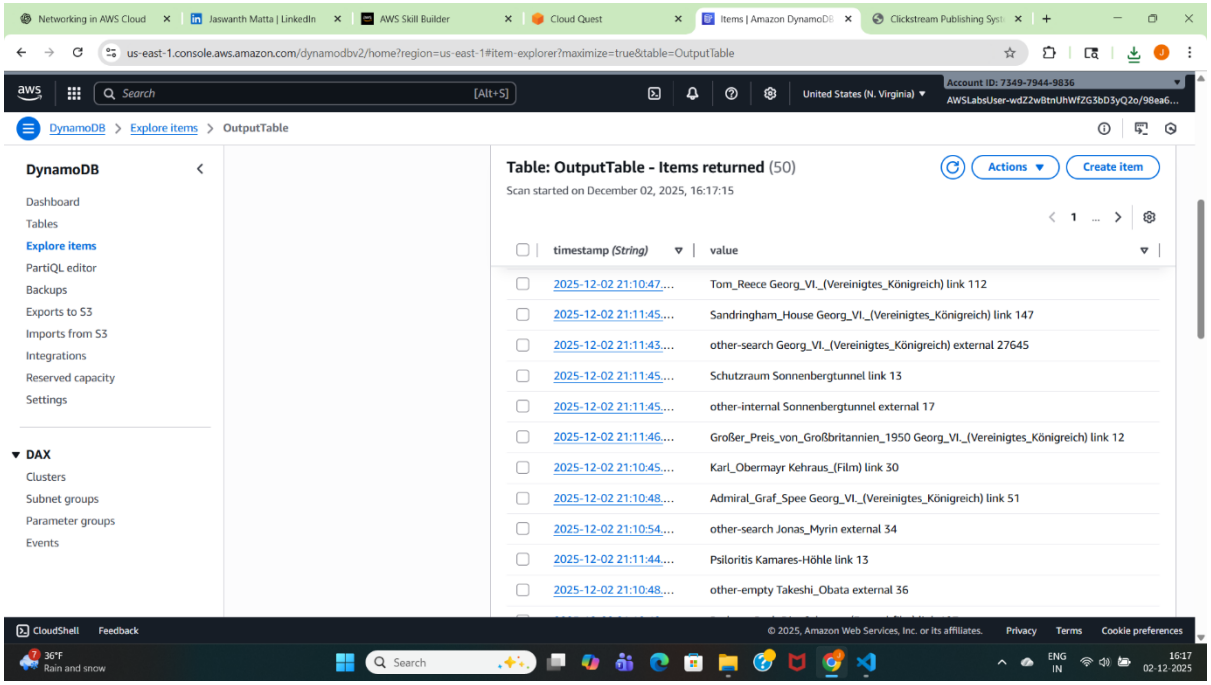
Cookie preferences
36°F
Rain and snow
Search
ENG
IN
16:17
02-12-2025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Clickstream Publishing Syst
us-east-1.console.aws.amazon.com/dynamodbv2/home?region=us-east-1#item-explorer?maximize=true&table=OutputTable
Search [Alt+S]
United States (N. Virginia)
Account ID: 7349-7944-9836
AWSLabsUser-wdZ2wBtnUhWfZG3bD3yQ2o/98ea6...
DynamoDB > Explore items > OutputTable
DynamoDB
Dashboard
Tables
Explore items
PartiQL editor
Backups
Exports to S3
Imports from S3
Integrations
Reserved capacity
Settings
DAX
Clusters
Subnet groups
Parameter groups
Events
Table: OutputTable - Items returned (50)
Scan started on December 02, 2025, 16:17:15
Actions
Create item
1
timestamp (String)
value
2025-12-02 21:10:47....
Tom_Reece Georg_VI._(Vereinigtes_Königreich) link 112
2025-12-02 21:11:45....
Sandringham_House Georg_VI._(Vereinigtes_Königreich) link 147
2025-12-02 21:11:43....
other-search Georg_VI._(Vereinigtes_Königreich) external 27645
2025-12-02 21:11:45....
Schutzraum Sonnenbergtunnel link 13
2025-12-02 21:11:45....
other-internal Sonnenbergtunnel external 17
2025-12-02 21:11:46....
Großer_Preis_von_Großbritannien_1950 Georg_VI._(Vereinigtes_Königreich) link 12
2025-12-02 21:10:45....
Karl_Obermayr Kehraus_(Film) link 30
2025-12-02 21:10:48....
Admiral_Graf_Spee Georg_VI._(Vereinigtes_Königreich) link 51
2025-12-02 21:10:54....
other-search Jonas_Myrin external 34
2025-12-02 21:11:44....
Psiloritis Kamares-Höhle link 13
2025-12-02 21:10:48....
other-empty Takeshi_Obata external 36
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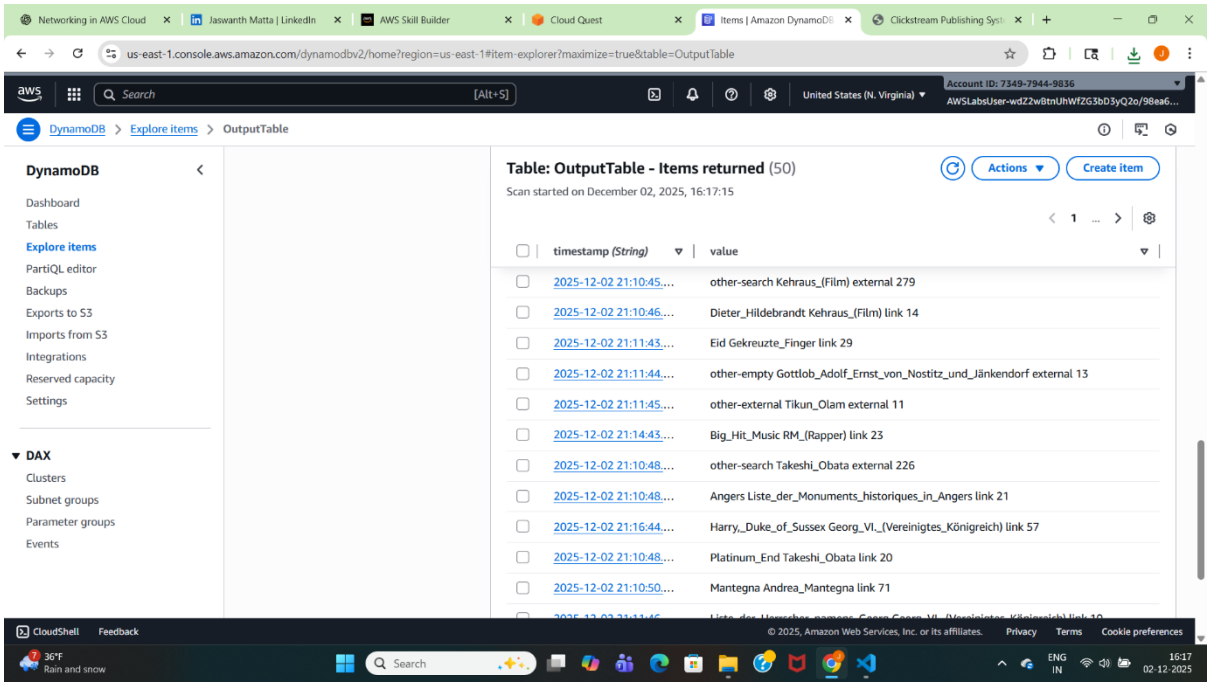
36°F
Rain and snow
Search
ENG
IN
16:17
02-12-2025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Cloud Quest
Items | Amazon DynamoDB
Clickstream Publishing Syst
us-east-1.console.aws.amazon.com/dynamodbv2/home?region=us-east-1#item-explorer?maximize=true&table=OutputTable
Search
[Alt+S]
United States (N. Virginia)
Account ID: 7349-7944-9836
AWSLabsUser-wdZ2wBtnUhWfZG3bD3yQ2o/98ea6...
DynamoDB > Explore items > OutputTable
DynamoDB
Dashboard
Tables
Explore items
PartiQL editor
Backups
Exports to S3
Imports from S3
Integrations
Reserved capacity
Settings
DAX
Clusters
Subnet groups
Parameter groups
Events
Table: OutputTable - Items returned (50)
Scan started on December 02, 2025, 16:17:15
Actions
Create item
timestamp (String)
value
2025-12-02 21:10:45....
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