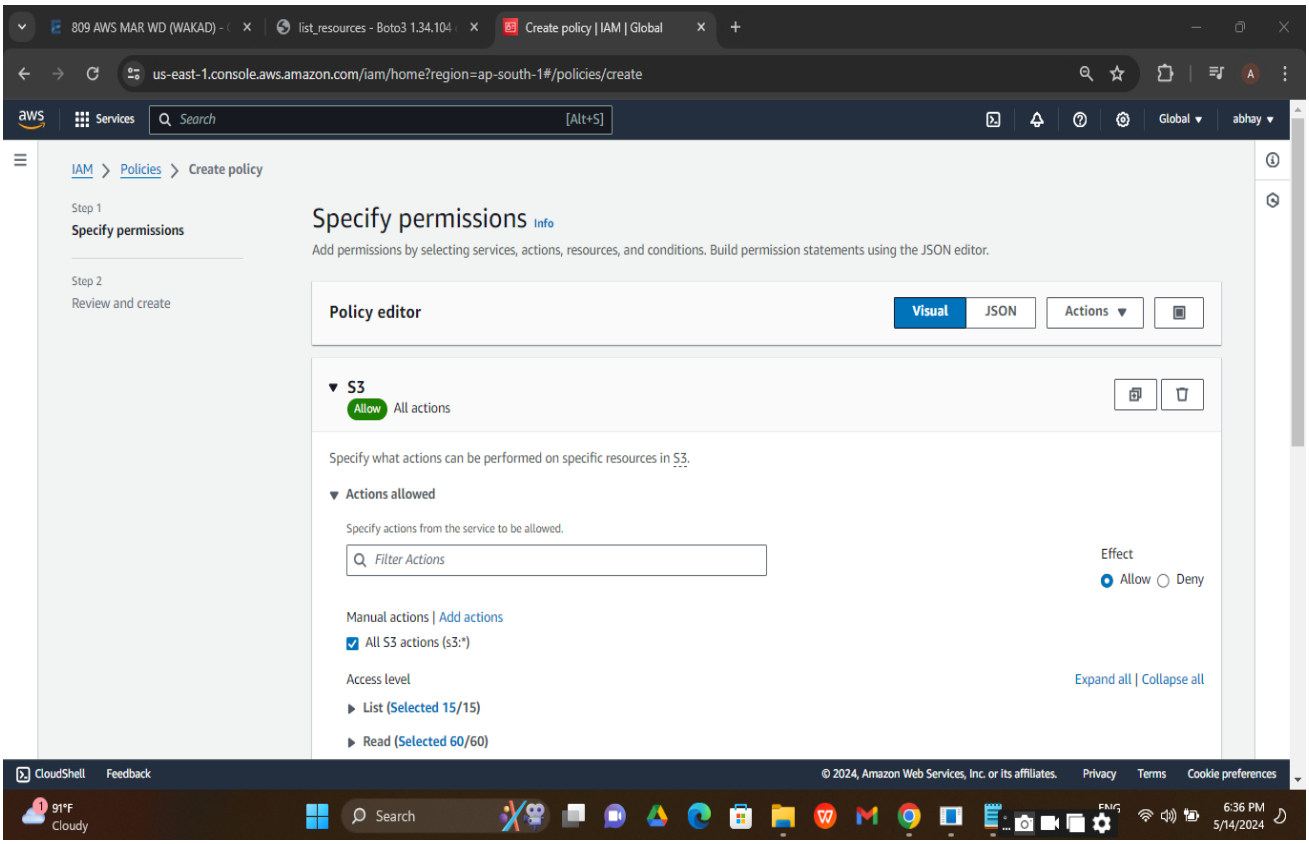
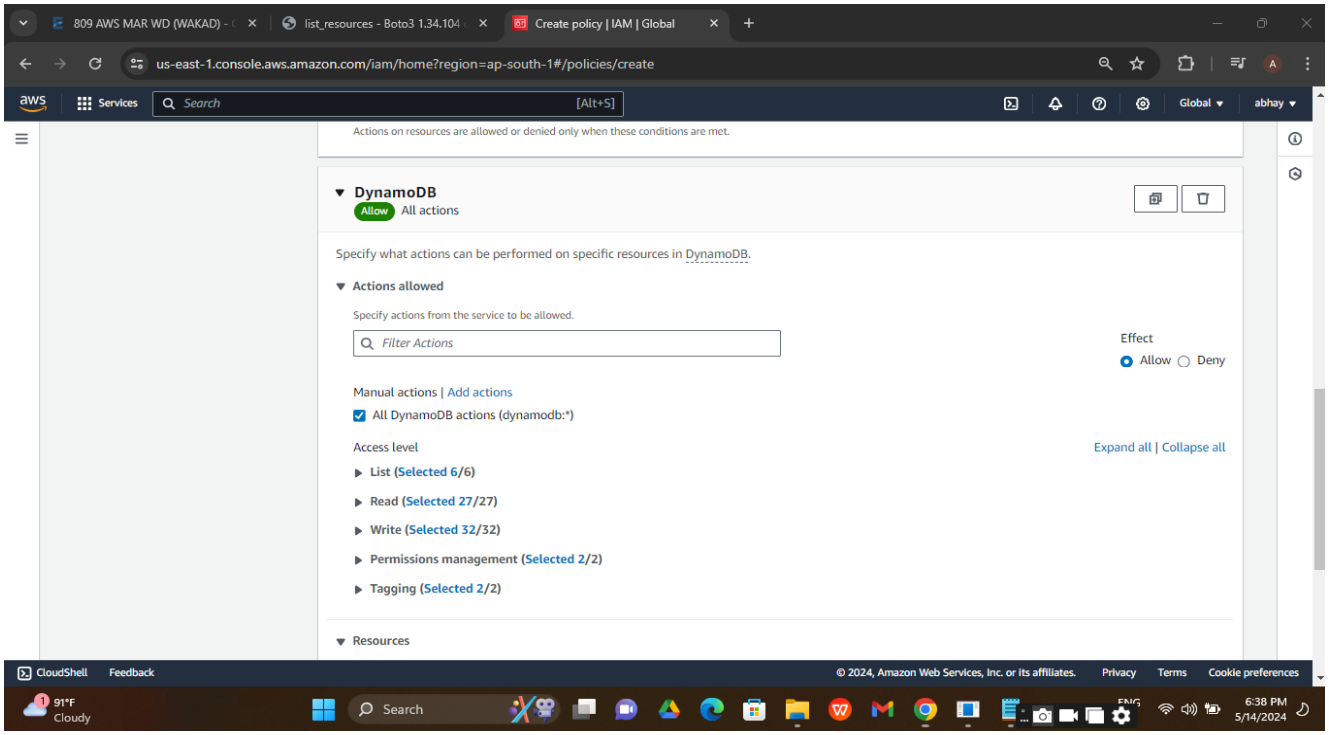
Lambda Automation Datapipeline

- Suppose I get a requirement from a client that he has a data and he wants to store that data in the dynamodb database of aws and all this should be done with single click execution(automated).
- We are creating datapipline using lambda service.
- First, we create 1 bucket in s3 and then upload this file in s3 bucket to using python boto3.
- We write the lambda function in this lambda function we write the program this program read this file and then write this data in dynamodb.
- lambda always run from trigger and this trigger means event of aws.
- Uploading file is an event so what i do i create that the movement some file will land in bucket that will invoke this lambda then lambda function code read the file from bucket and write the data in Database.
- So, we are creating pipeline.
- Why we select dynamodb database for storing data because this file data is json and dynamodb is pioneer database to hold json data.
- So first we go to IAM service and create policy.




809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Create policy | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/policies/create
Services
Search
[Alt+S]
Global
abhay
Actions on resources are allowed or denied only when these conditions are met.
DynamoDB
Allow
All actions
Specify what actions can be performed on specific resources in DynamoDB.
Actions allowed
Specify actions from the service to be allowed.
Filter Actions
Effect
Allow
Deny
Manual actions | Add actions
All DynamoDB actions (dynamodb:*)
Access level
Expand all | Collapse all
List (Selected 6/6)
Read (Selected 27/27)
Write (Selected 32/32)
Permissions management (Selected 2/2)
Tagging (Selected 2/2)
Resources
CloudShell
Feedback
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Terms
Cookie preferences
91°F
Cloudy
Search
6:38 PM
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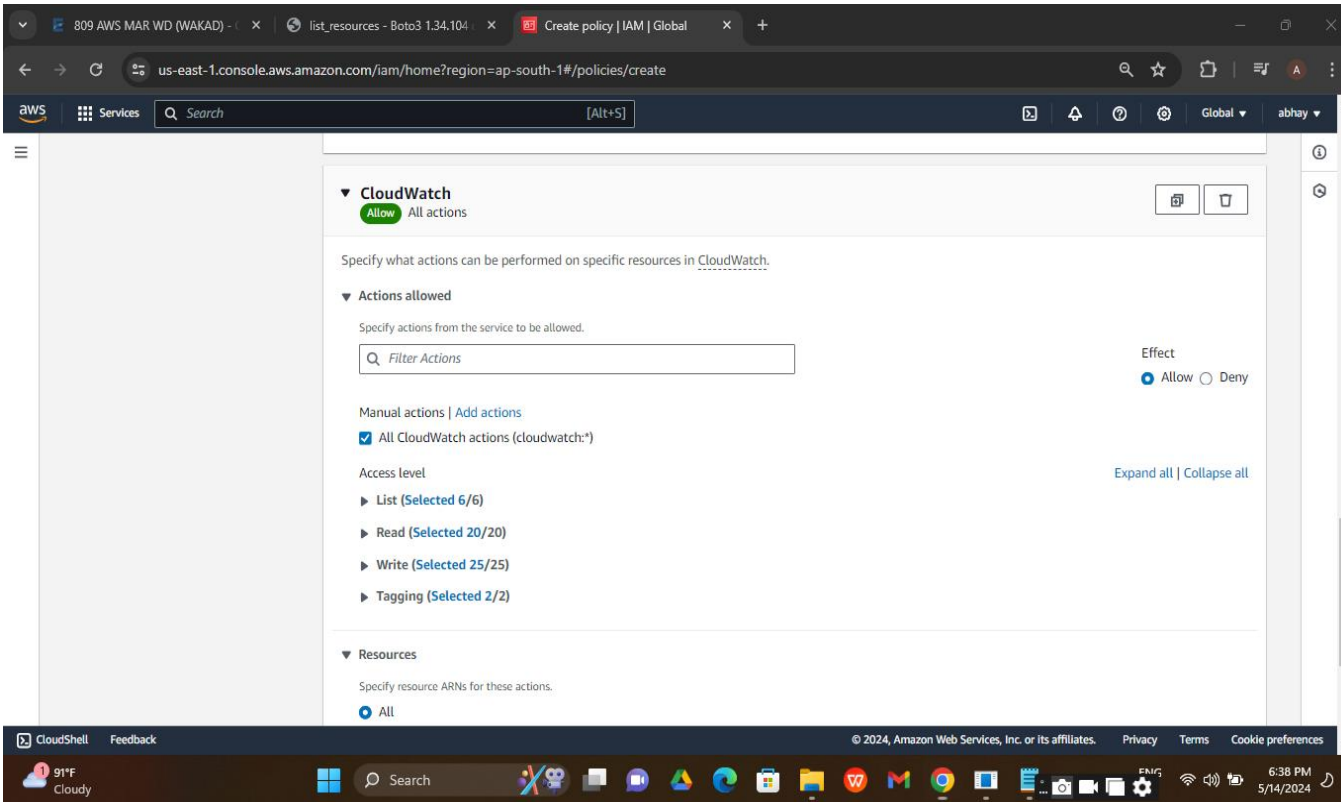
809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Create policy | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/policies/create
Services
Search
[Alt+S]
Global
abhay
CloudWatch
Allow
All actions
Specify what actions can be performed on specific resources in CloudWatch.
Actions allowed
Specify actions from the service to be allowed.
Filter Actions
Effect
Allow
Deny
Manual actions | Add actions
All CloudWatch actions (cloudwatch:*)
Access level
Expand all | Collapse all
List (Selected 6/6)
Read (Selected 20/20)
Write (Selected 25/25)
Tagging (Selected 2/2)
Resources
Specify resource ARNs for these actions.
All
CloudShell
Feedback
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Cloudy
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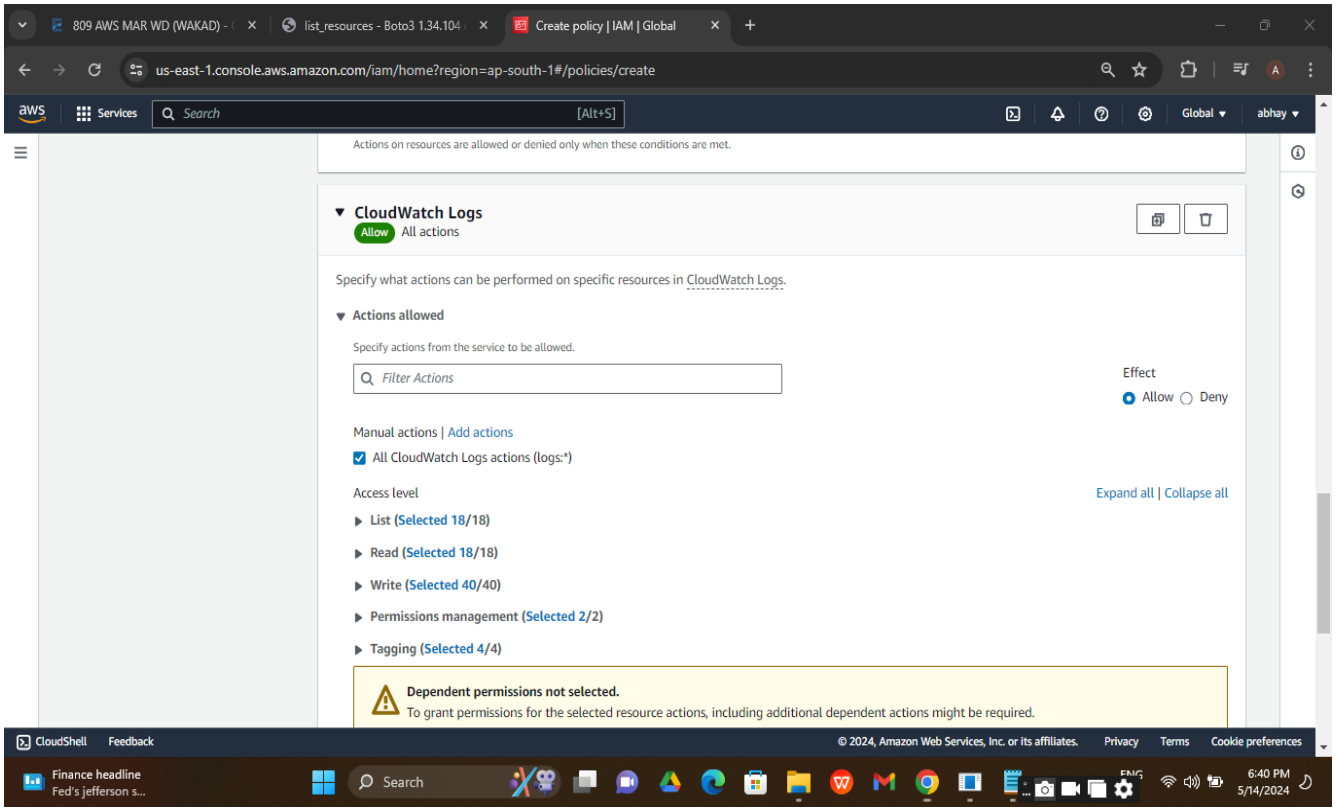
809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Create policy | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/policies/create
Services
Search
[Alt+S]
Global
abhay
Actions on resources are allowed or denied only when these conditions are met.
CloudWatch Logs
Allow
All actions
Specify what actions can be performed on specific resources in CloudWatch Logs.
Actions allowed
Specify actions from the service to be allowed.
Filter Actions
Effect
Allow
Deny
Manual actions | Add actions
All CloudWatch Logs actions (logs:*)
Access level
Expand all | Collapse all
List (Selected 18/18)
Read (Selected 18/18)
Write (Selected 40/40)
Permissions management (Selected 2/2)
Tagging (Selected 4/4)
Dependent permissions not selected.
To grant permissions for the selected resource actions, including additional dependent actions might be required.
CloudShell
Feedback
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Terms
Cookie preferences
Finance headline
Fed's jefferson s...
Search
6:40 PM
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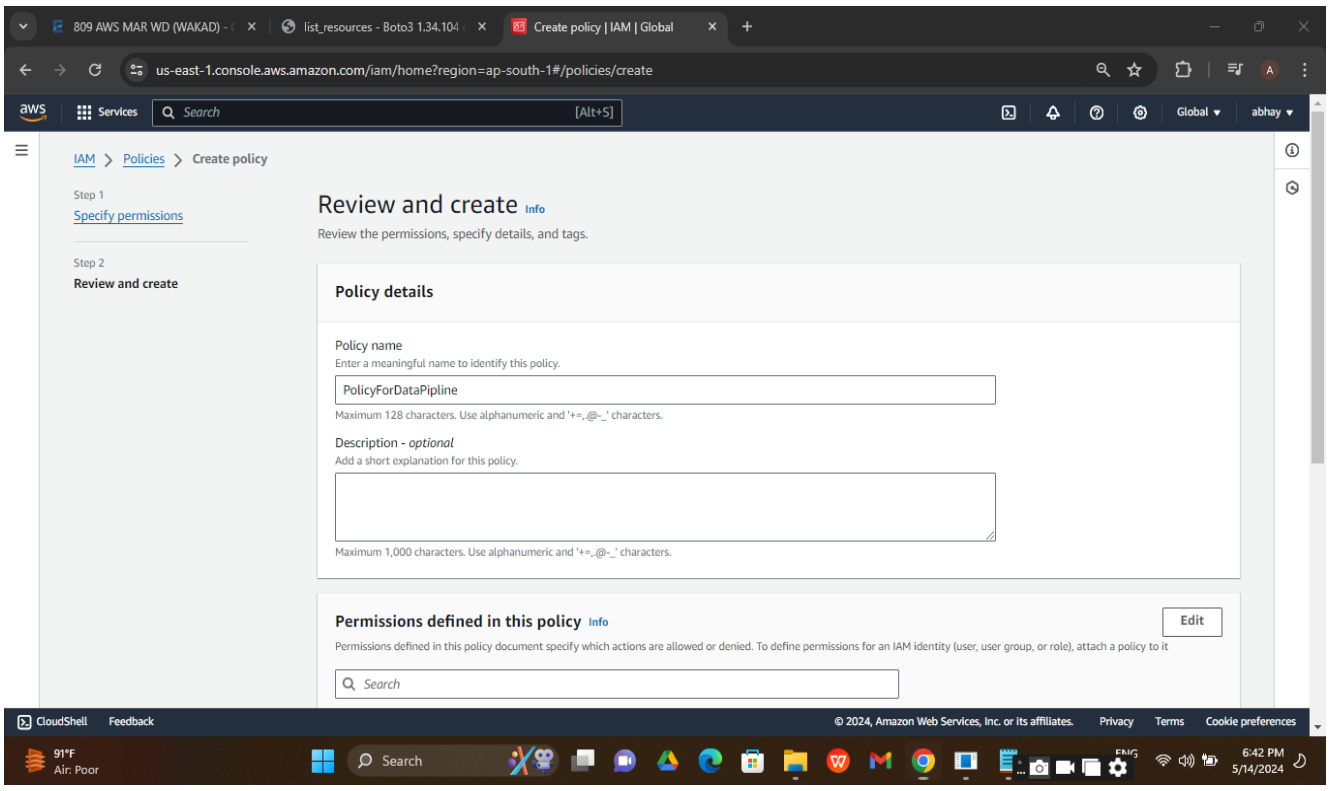
809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Create policy | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/policies/create
Services
Search
[Alt+S]
Global
abhay
IAM > Policies > Create policy
Step 1
Specify permissions
Step 2
Review and create
Review and create Info
Review the permissions, specify details, and tags.
Policy details
Policy name
Enter a meaningful name to identify this policy.
PolicyForDataPipline
Maximum 128 characters. Use alphanumeric and '+=,.@-_' characters.
Description - optional
Add a short explanation for this policy.
Maximum 1,000 characters. Use alphanumeric and '+=,.@-_' characters.
Permissions defined in this policy Info
Edit
Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it
Search
CloudShell
Feedback
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Cookie preferences
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Air: Poor
Search
6:42 PM
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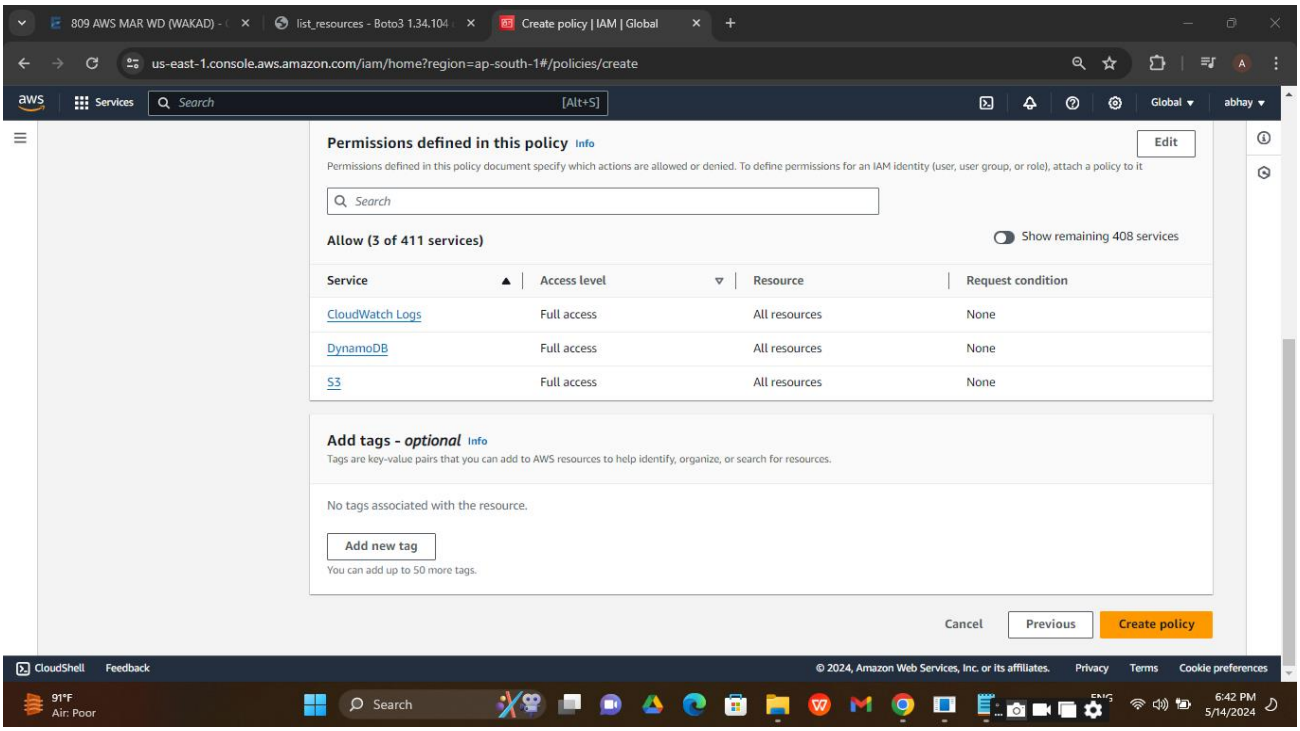
809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Create policy | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/policies/create
Services
Search
[Alt+S]
Global
abhay
Permissions defined in this policy Info
Edit
Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it
Search
Allow (3 of 411 services)
Show remaining 408 services
Service
Access level
Resource
Request condition
CloudWatch Logs
Full access
All resources
None
DynamoDB
Full access
All resources
None
S3
Full access
All resources
None
Add tags - optional Info
Tags are key-value pairs that you can add to AWS resources to help identify, organize, or search for resources.
No tags associated with the resource.
Add new tag
You can add up to 50 more tags.
Cancel
Previous
Create policy
CloudShell
Feedback
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Air: Poor
Search
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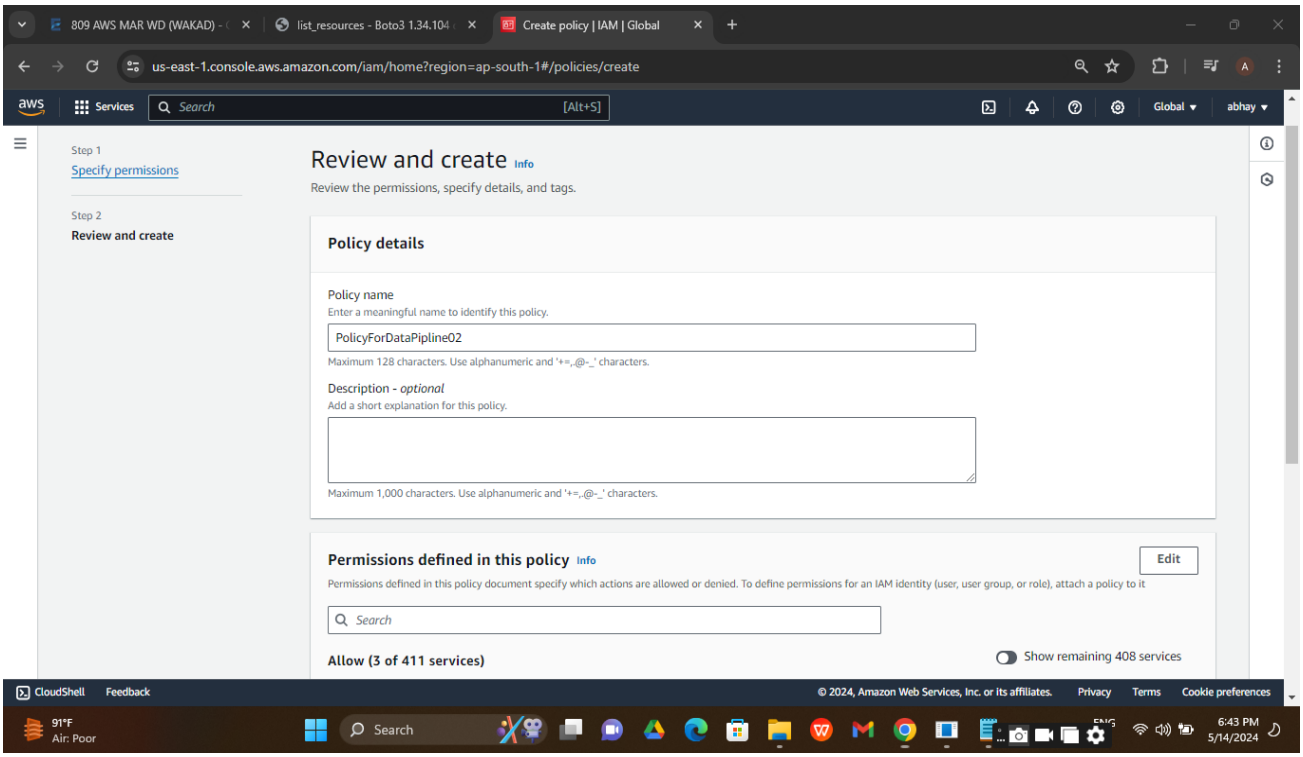
809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Create policy | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/policies/create
Services
Search
[Alt+S]
Global
abhay
Step 1
Specify permissions
Step 2
Review and create
Review and create Info
Review the permissions, specify details, and tags.
Policy details
Policy name
Enter a meaningful name to identify this policy.
PolicyForDataPipline02
Maximum 128 characters. Use alphanumeric and '+=,.@-_' characters.
Description - optional
Add a short explanation for this policy.
Maximum 1,000 characters. Use alphanumeric and '+=,.@-_' characters.
Permissions defined in this policy Info
Edit
Permissions defined in this policy document specify which actions are allowed or denied. To define permissions for an IAM identity (user, user group, or role), attach a policy to it
Search
Allow (3 of 411 services)
Show remaining 408 services
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Air: Poor
Search
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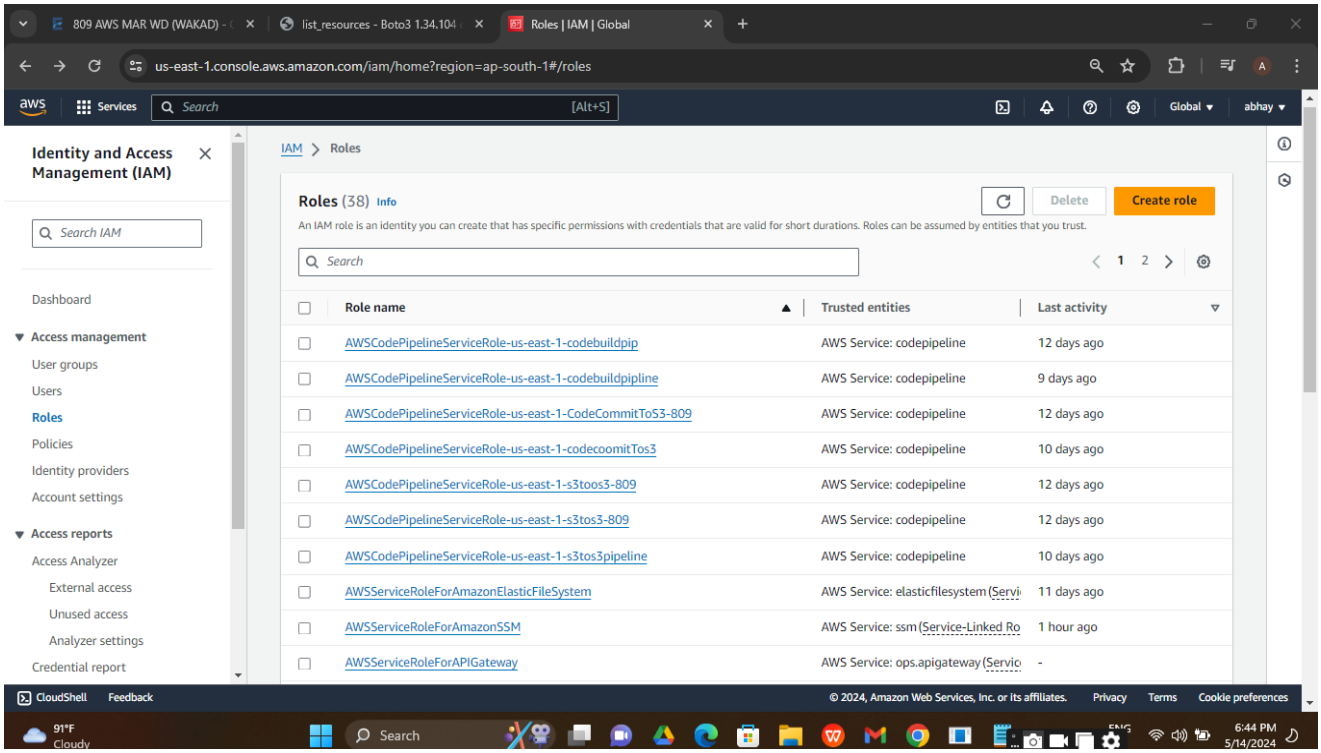
809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Roles | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles
Services
Search
[Alt+S]
Global
abhay
Identity and Access Management (IAM)
Search IAM
Dashboard
Access management
User groups
Users
Roles
Policies
Identity providers
Account settings
Access reports
Access Analyzer
External access
Unused access
Analyzer settings
Credential report
IAM > Roles
Roles (38) 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.
Delete
Create role
Search
Role name
Trusted entities
Last activity
AWSCodePipelineServiceRole-us-east-1-codebuildpip
AWS Service: codepipeline
12 days ago
AWSCodePipelineServiceRole-us-east-1-codebuildpipline
AWS Service: codepipeline
9 days ago
AWSCodePipelineServiceRole-us-east-1-CodeCommitToS3-809
AWS Service: codepipeline
12 days ago
AWSCodePipelineServiceRole-us-east-1-codecoomitTos3
AWS Service: codepipeline
10 days ago
AWSCodePipelineServiceRole-us-east-1-s3toos3-809
AWS Service: codepipeline
12 days ago
AWSCodePipelineServiceRole-us-east-1-s3tos3-809
AWS Service: codepipeline
12 days ago
AWSCodePipelineServiceRole-us-east-1-s3tos3pipeline
AWS Service: codepipeline
10 days ago
AWSServiceRoleForAmazonElasticFileSystem
AWS Service: elasticfilesystem (Servi
11 days ago
AWSServiceRoleForAmazonSSM
AWS Service: ssm (Service-Linked Ro
1 hour ago
AWSServiceRoleForAPIGateway
AWS Service: ops.apigateway (Servic
-
CloudShell
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Cloudy
Search
6:44 PM
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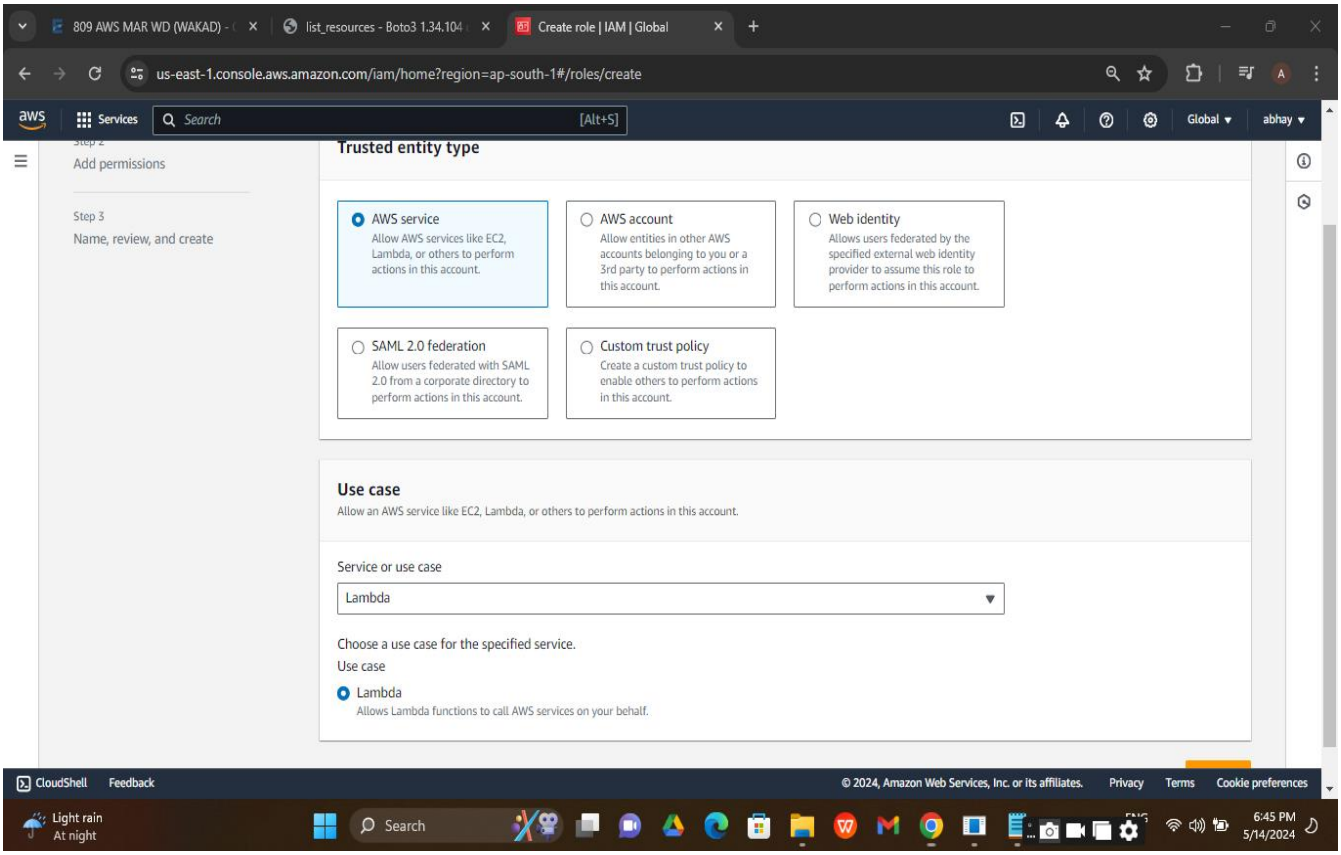
809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Create role | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles/create
Services
Search
[Alt+S]
Global
abhay
Add permissions
Step 3
Name, review, and create
Trusted entity type
AWS service
Allow AWS services like EC2, Lambda, or others to perform actions in this account.
AWS account
Allow entities in other AWS accounts belonging to you or a 3rd party to perform actions in this account.
Web identity
Allows users federated by the specified external web identity provider to assume this role to perform actions in this account.
SAML 2.0 federation
Allow users federated with SAML 2.0 from a corporate directory to perform actions in this account.
Custom trust policy
Create a custom trust policy to enable others to perform actions in this account.
Use case
Allow an AWS service like EC2, Lambda, or others to perform actions in this account.
Service or use case
Lambda
Choose a use case for the specified service.
Use case
Lambda
Allows Lambda functions to call AWS services on your behalf.
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Light rain
At night
Search
6:45 PM
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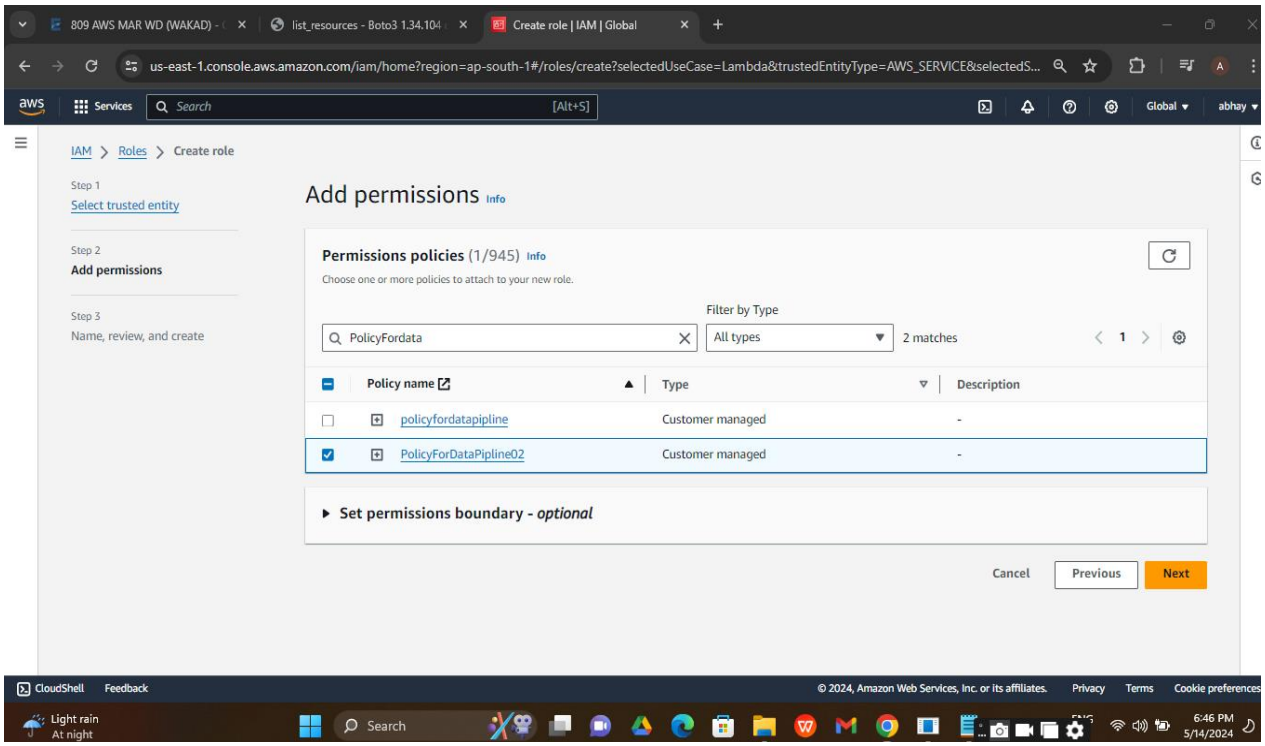
809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Create role | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles/create?selectedUseCase=Lambda&trustedEntityType=AWS_SERVICE&selectedS...
Services
Search
[Alt+S]
Global
abhay
IAM > Roles > Create role
Step 1
Select trusted entity
Step 2
Add permissions
Step 3
Name, review, and create
Add permissions Info
Permissions policies (1/945) Info
Choose one or more policies to attach to your new role.
Filter by Type
PolicyFordata
All types
2 matches
1
Policy name
Type
Description
policyfordatapipline
Customer managed
-
PolicyForDataPipline02
Customer managed
-
Set permissions boundary - optional
Cancel
Previous
Next
CloudShell
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Light rain
At night
Search
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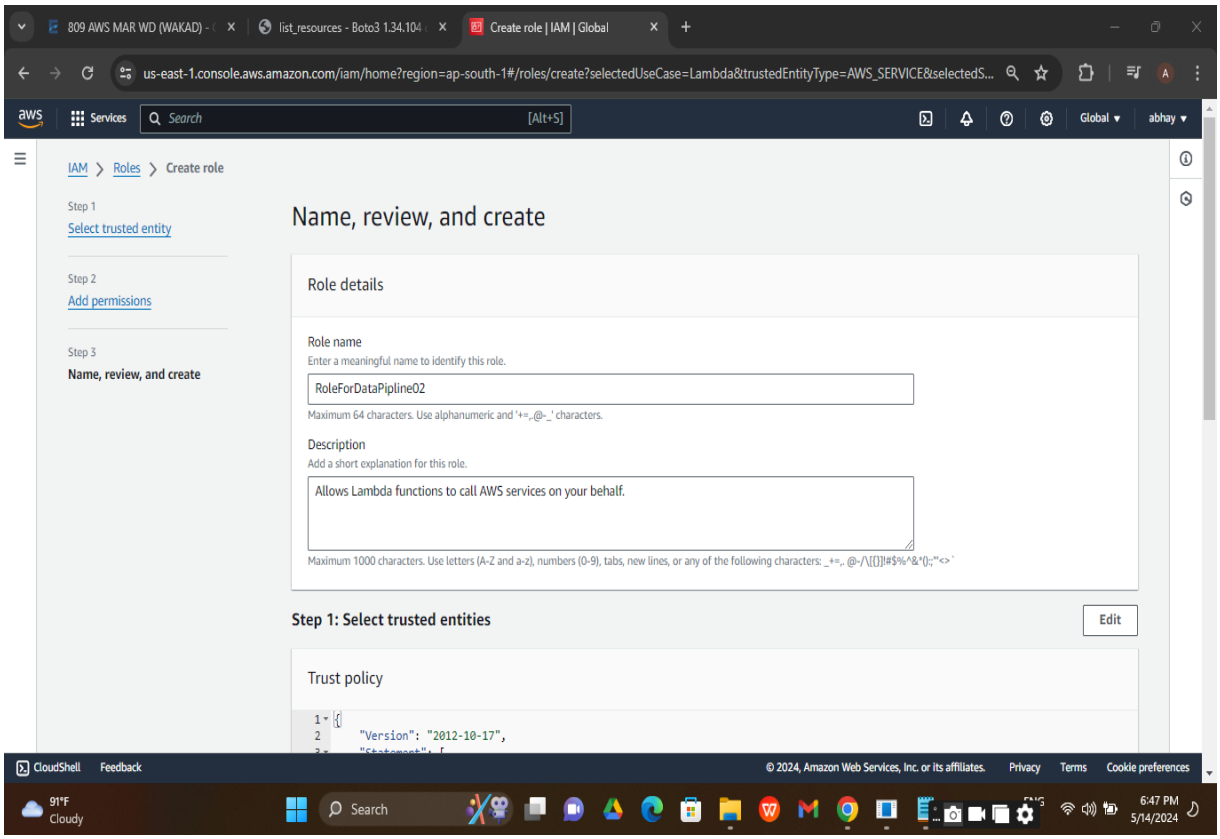
809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Create role | IAM | Global
us-east-1.console.aws.amazon.com/iam/home?region=ap-south-1#/roles/create?selectedUseCase=Lambda&trustedEntityType=AWS_SERVICE&selectedS...
Services
Search
[Alt+S]
Global
abhay
IAM > Roles > Create role
Step 1
Select 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.
RoleForDataPipline02
Maximum 64 characters. Use alphanumeric and '+=,.@-_' characters.
Description
Add a short explanation for this role.
Allows Lambda functions to call AWS services on your behalf.
Maximum 1000 characters. Use letters (A-Z and a-z), numbers (0-9), tabs, new lines, or any of the following characters: _+=,. @-/\[{}]!#$%^&*();:'"<>`
Step 1: Select trusted entities
Edit
Trust policy
{
"Version": "2012-10-17",
CloudShell
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Search
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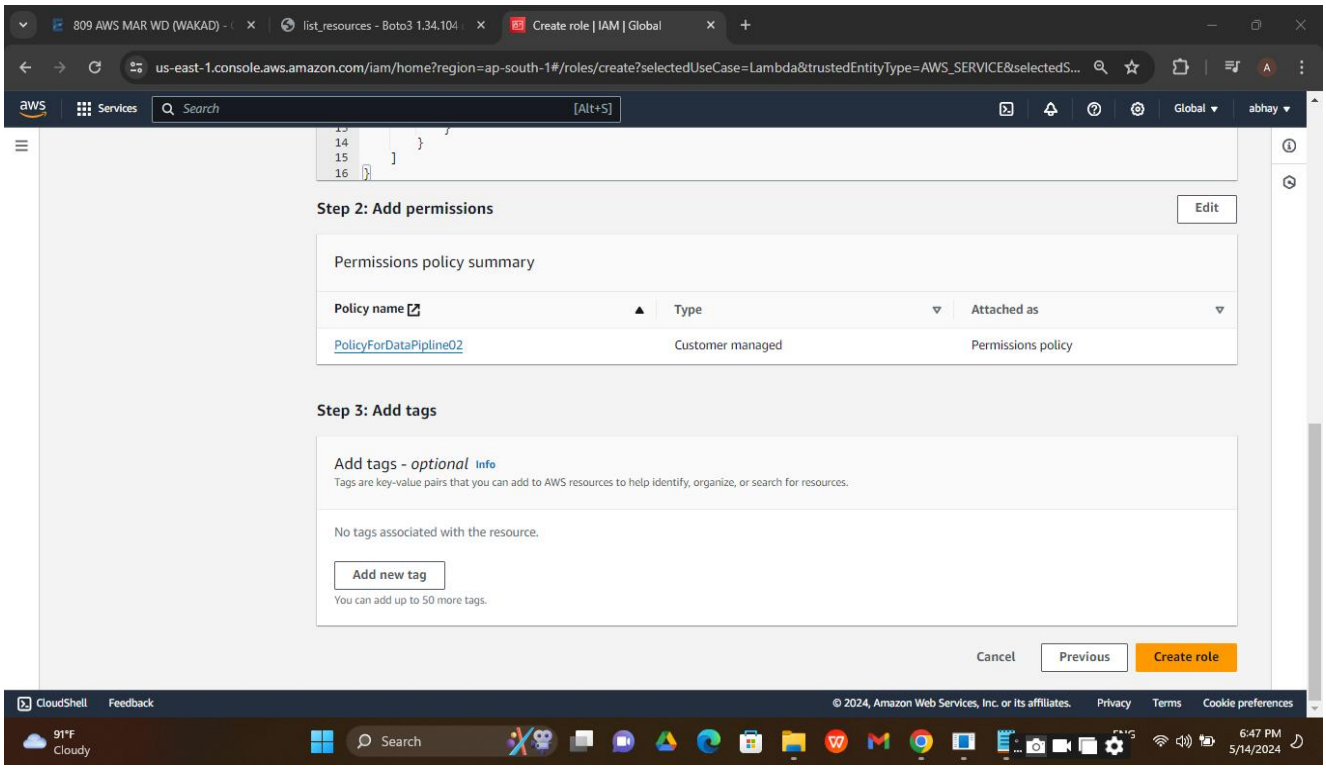
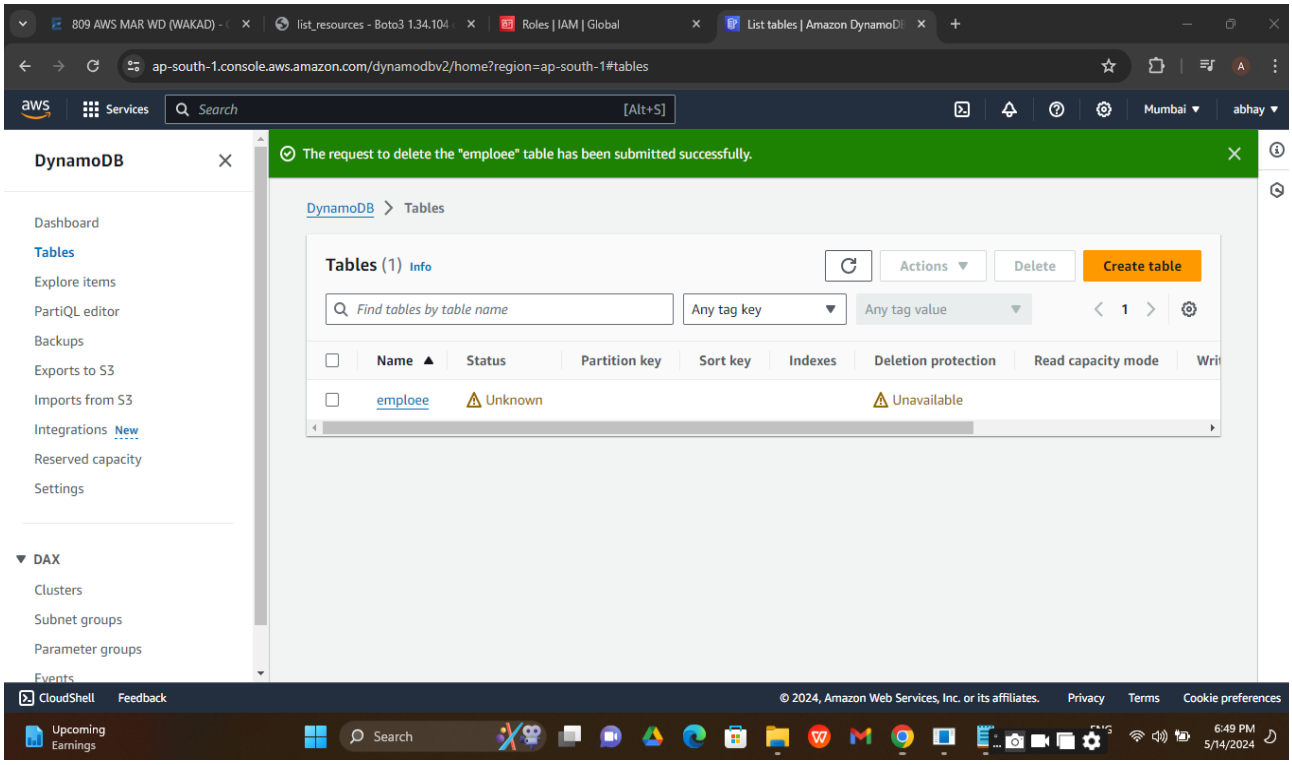
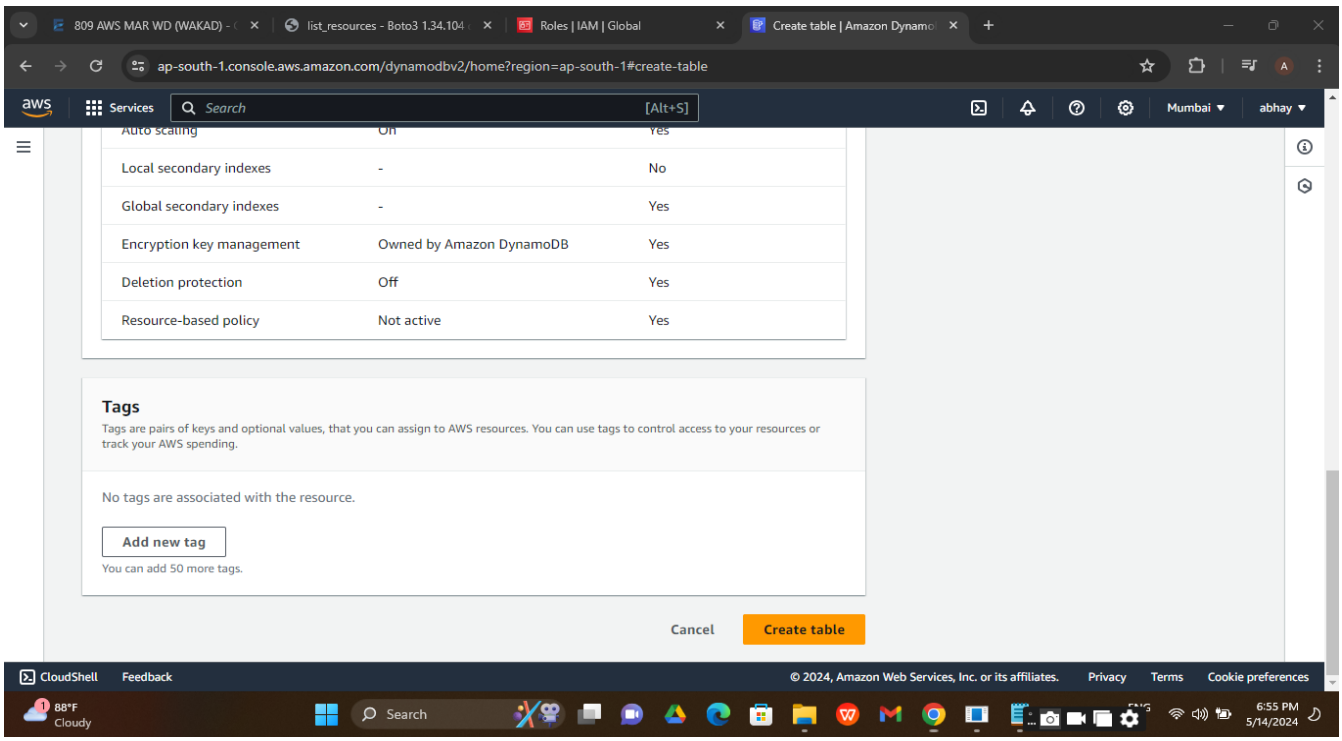


- We are go to dynamodb and go to tables and create table.




809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Roles | IAM | Global
Create table | Amazon Dynamo
ap-south-1.console.aws.amazon.com/dynamodbv2/home?region=ap-south-1#create-table
Services
Search
[Alt+S]
Mumbai
abhay
Auto scaling On Yes
Local secondary indexes - No
Global secondary indexes - Yes
Encryption key management Owned by Amazon DynamoDB Yes
Deletion protection Off Yes
Resource-based policy Not active Yes
Tags
Tags are pairs of keys and optional values, that you can assign to AWS resources. You can use tags to control access to your resources or track your AWS spending.
No tags are associated with the resource.
Add new tag
You can add 50 more tags.
Cancel
Create table
CloudShell
Feedback
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Cloudy
Search
6:55 PM
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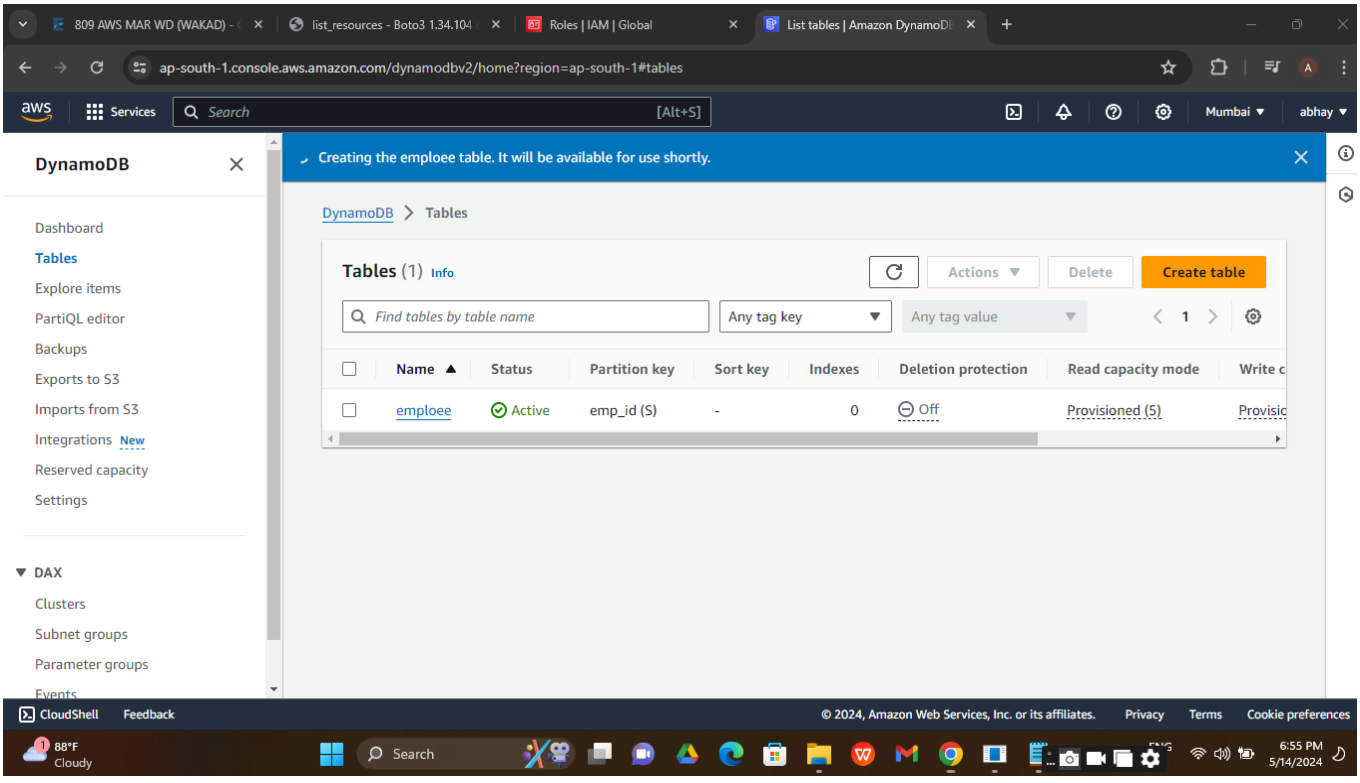
809 AWS MAR WD (WAKAD) -
list_resources - Boto3 1.34.104
Roles | IAM | Global
List tables | Amazon DynamoDB
ap-south-1.console.aws.amazon.com/dynamodbv2/home?region=ap-south-1#tables
Services
Search
[Alt+S]
Mumbai
abhay
DynamoDB
Dashboard
Tables
Explore items
PartiQL editor
Backups
Exports to S3
Imports from S3
Integrations New
Reserved capacity
Settings
DAX
Clusters
Subnet groups
Parameter groups
Events
Creating the emploee table. It will be available for use shortly.
DynamoDB > Tables
Tables (1) Info
Actions
Delete
Create table
Find tables by table name
Any tag key
Any tag value
Name
Status
Partition key
Sort key
Indexes
Deletion protection
Read capacity mode
emploee
Active
emp_id (S)
-
0
Off
Provisioned (5)
CloudShell
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Cloudy
Search
6:55 PM
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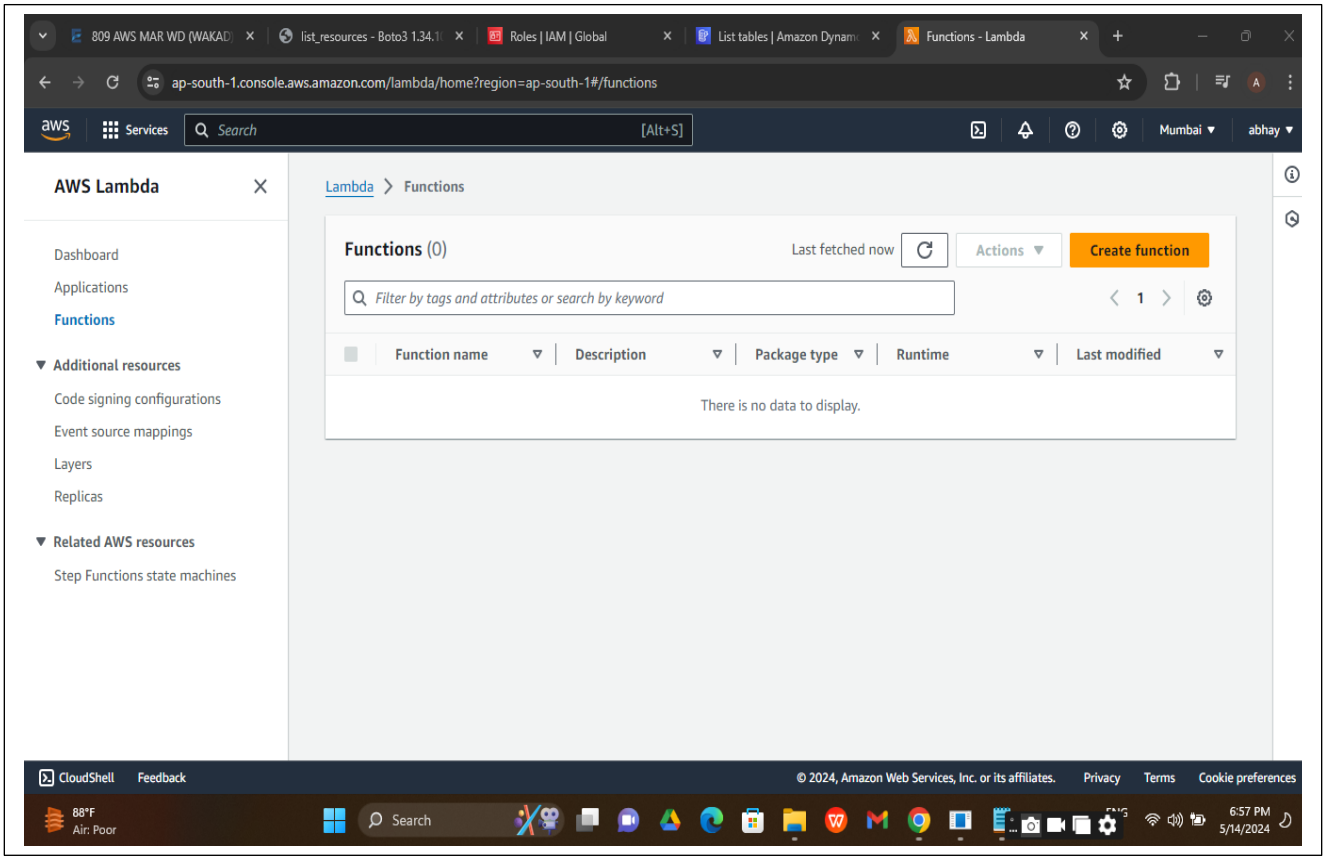
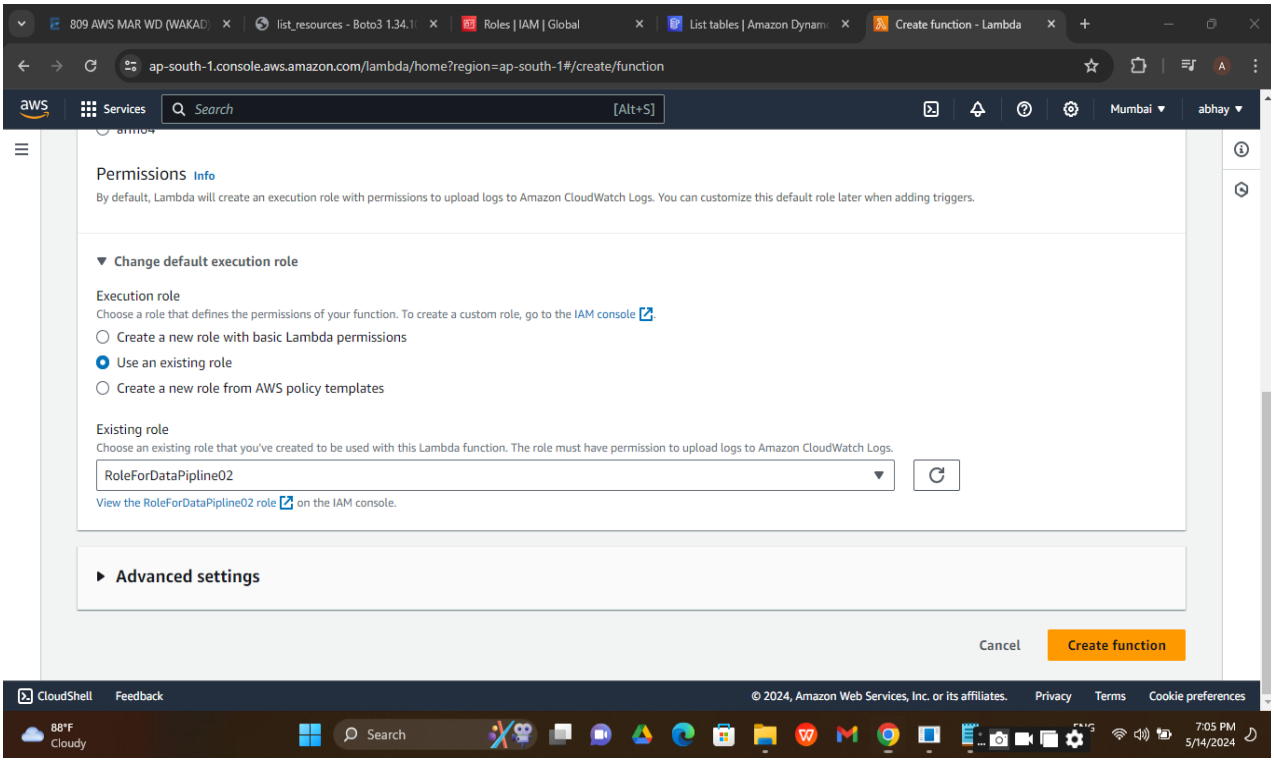
- Go to lambda service and create function- Author from scratch.
- Add trigger s3
- Go to code and we just print the event and see what information his give - deploy the code
- Go to trigger and our function trigger is s3 so run the code and upload the file then go to CloudWatch and see logs groups

  aws/lambda/datapipline - see the information print by event.




809 AWS MAR WD (WAKAD
list_resources - Boto3 1.34.1
Roles | IAM | Global
List tables | Amazon Dynam
Create function - Lambda
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/create/function
Services
Search
[Alt+S]
Mumbai
abhay
Permissions Info
By default, Lambda will create an execution role with permissions to upload logs to Amazon CloudWatch Logs. You can customize this default role later when adding triggers.
Change default execution role
Execution role
Choose a role that defines the permissions of your function. To create a custom role, go to the IAM console
Create a new role with basic Lambda permissions
Use an existing role
Create a new role from AWS policy templates
Existing role
Choose an existing role that you've created to be used with this Lambda function. The role must have permission to upload logs to Amazon CloudWatch Logs.
RoleForDataPipline02
View the RoleForDataPipline02 role on the IAM console.
Advanced settings
Cancel
Create function
CloudShell
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Terms
Cookie preferences
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Cloudy
Search
7:05 PM
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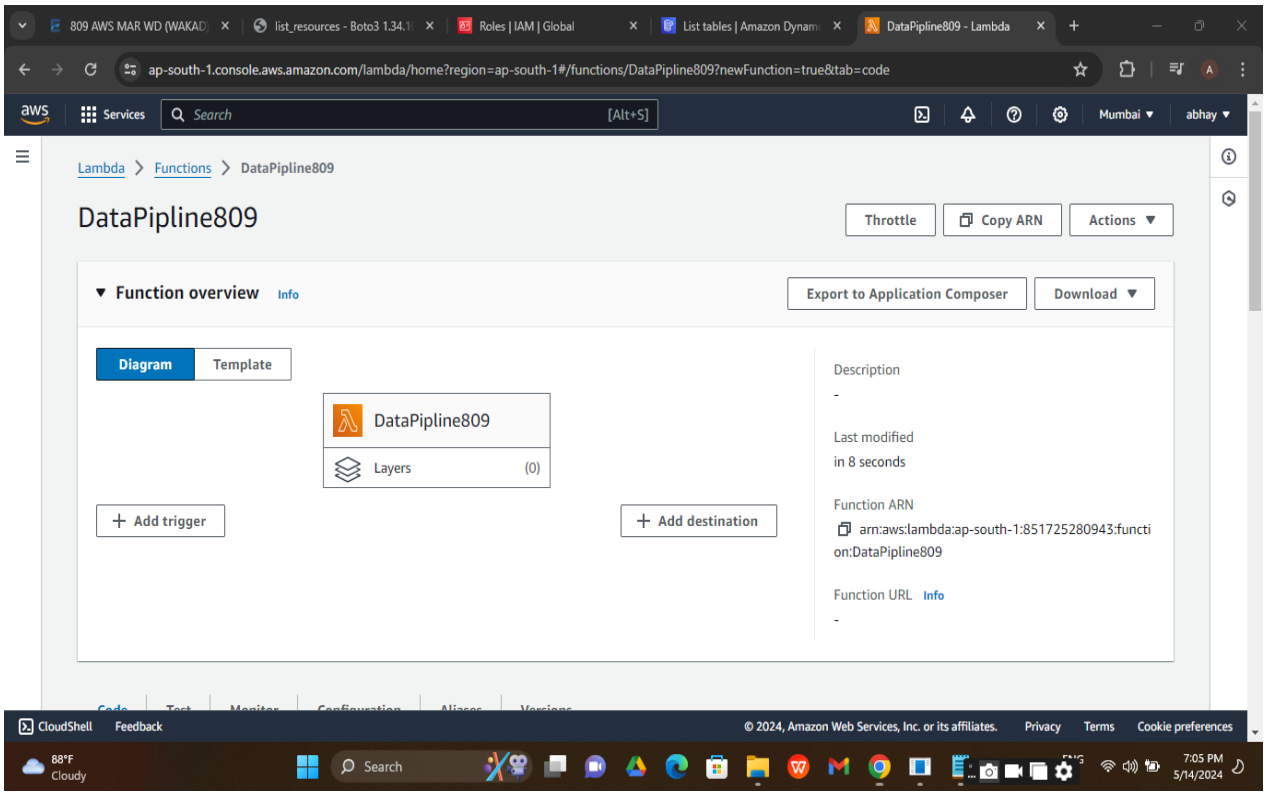
809 AWS MAR WD (WAKAD
list_resources - Boto3 1.34.1
Roles | IAM | Global
List tables | Amazon Dynam
DataPipline809 - Lambda
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/DataPipline809?newFunction=true&tab=code
Services
Search
[Alt+S]
Mumbai
abhay
Lambda > Functions > DataPipline809
DataPipline809
Throttle
Copy ARN
Actions
Function overview Info
Export to Application Composer
Download
Diagram
Template
DataPipline809
Layers (0)
Add trigger
Add destination
Description
-
Last modified
in 8 seconds
Function ARN
arn:aws:lambda:ap-south-1:851725280943:function:DataPipline809
Function URL Info
-
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Search
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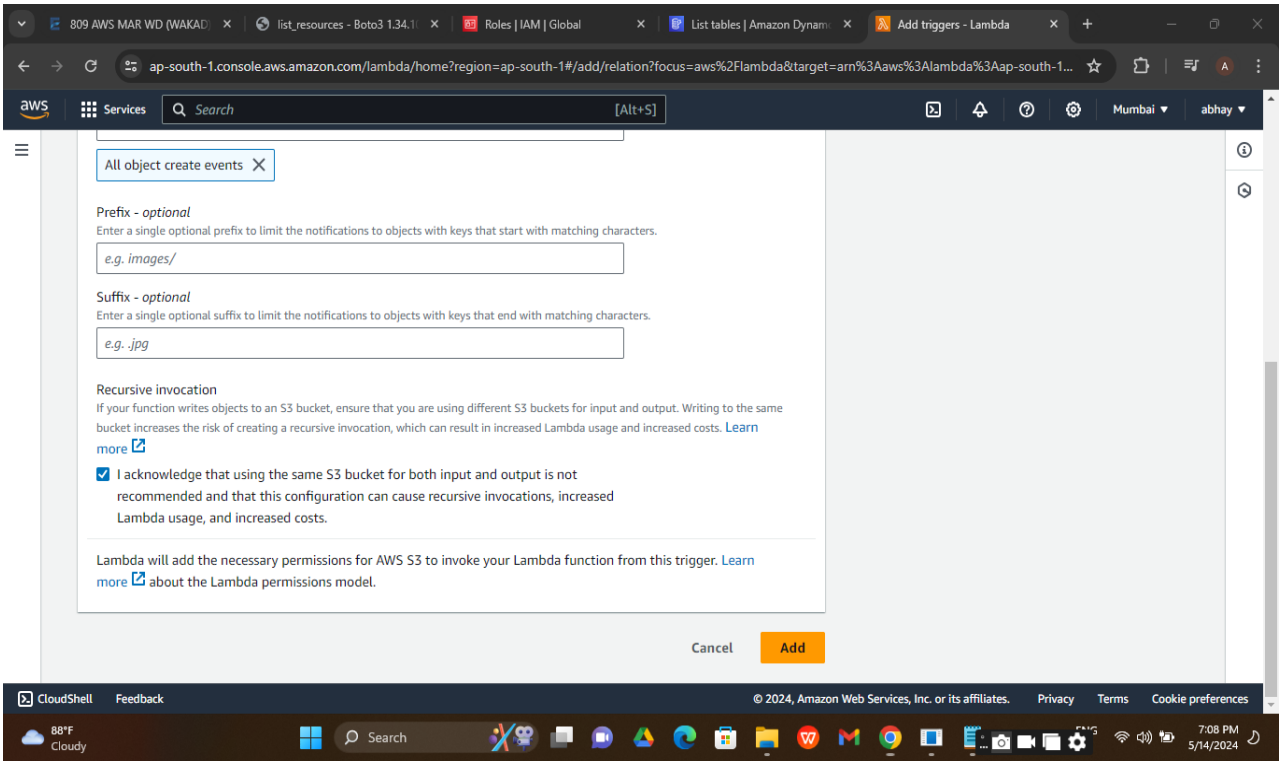
809 AWS MAR WD (WAKAD
list_resources - Boto3 1.34.1
Roles | IAM | Global
List tables | Amazon Dynam
Add triggers - Lambda
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/add/relation?focus=aws%2Flambda&target=arn%3Aaws%3Alambda%3Aap-south-1...
Services
Search
[Alt+S]
Mumbai
abhay
All object create events
Prefix - optional
Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.
e.g. images/
Suffix - optional
Enter a single optional suffix to limit the notifications to objects with keys that end with matching characters.
e.g. .jpg
Recursive invocation
If your function writes objects to an S3 bucket, ensure that you are using different S3 buckets for input and output. Writing to the same bucket increases the risk of creating a recursive invocation, which can result in increased Lambda usage and increased costs. Learn more
I acknowledge that using the same S3 bucket for both input and output is not recommended and that this configuration can cause recursive invocations, increased Lambda usage, and increased costs.
Lambda will add the necessary permissions for AWS S3 to invoke your Lambda function from this trigger. Learn more about the Lambda permissions model.
Cancel
Add
CloudShell
Feedback
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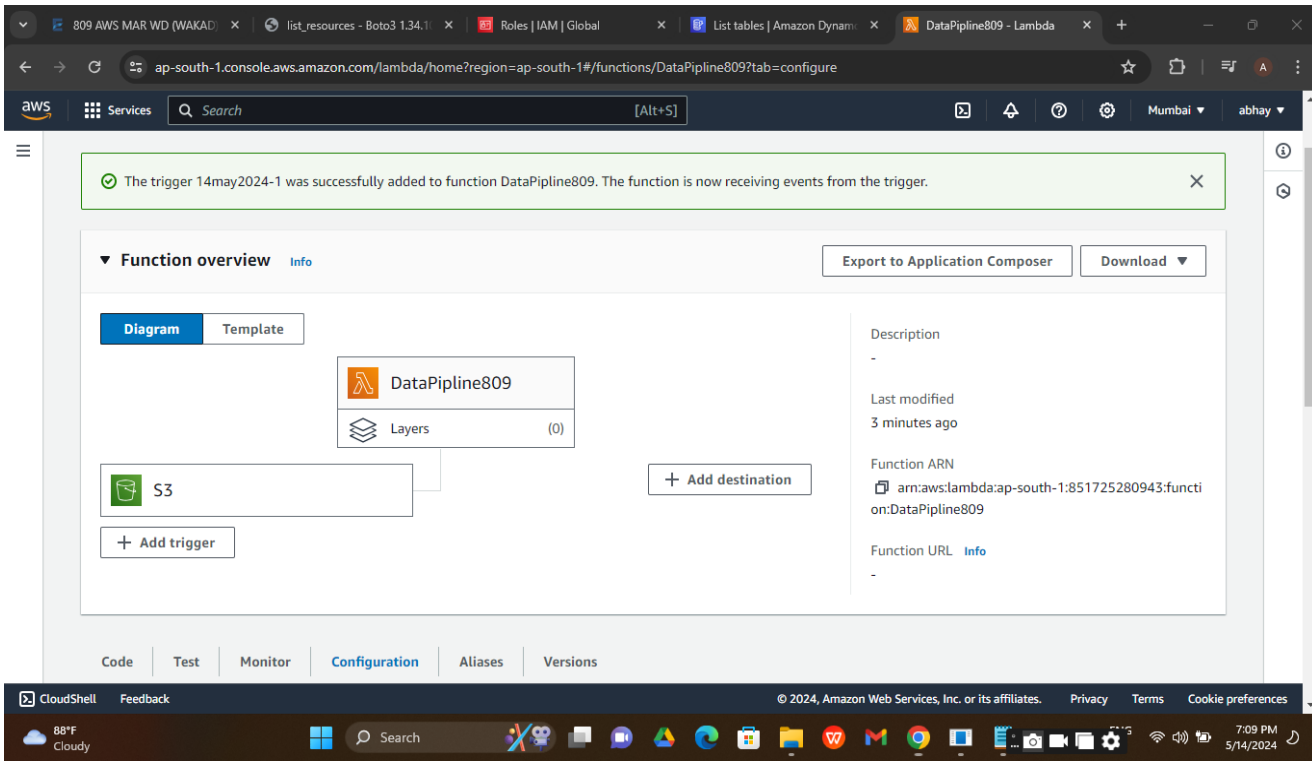
88°F
Cloudy
Search
7:08 PM
5/14/2024


809 AWS MAR WD (WAKAD
list_resources - Boto3 1.34.1
Roles | IAM | Global
List tables | Amazon Dynam
DataPipline809 - Lambda
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/DataPipline809?tab=configure
Services
Search
[Alt+S]
Mumbai
abhay
The trigger 14may2024-1 was successfully added to function DataPipline809. The function is now receiving events from the trigger.
Function overview
Info
Export to Application Composer
Download
Diagram
Template
DataPipline809
Layers
(0)
S3
Add trigger
Add destination
Description
-
Last modified
3 minutes ago
Function ARN
arn:aws:lambda:ap-south-1:851725280943:function:DataPipline809
Function URL
Info
-
Code
Test
Monitor
Configuration
Aliases
Versions
CloudShell
Feedback
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Cloudy
Search
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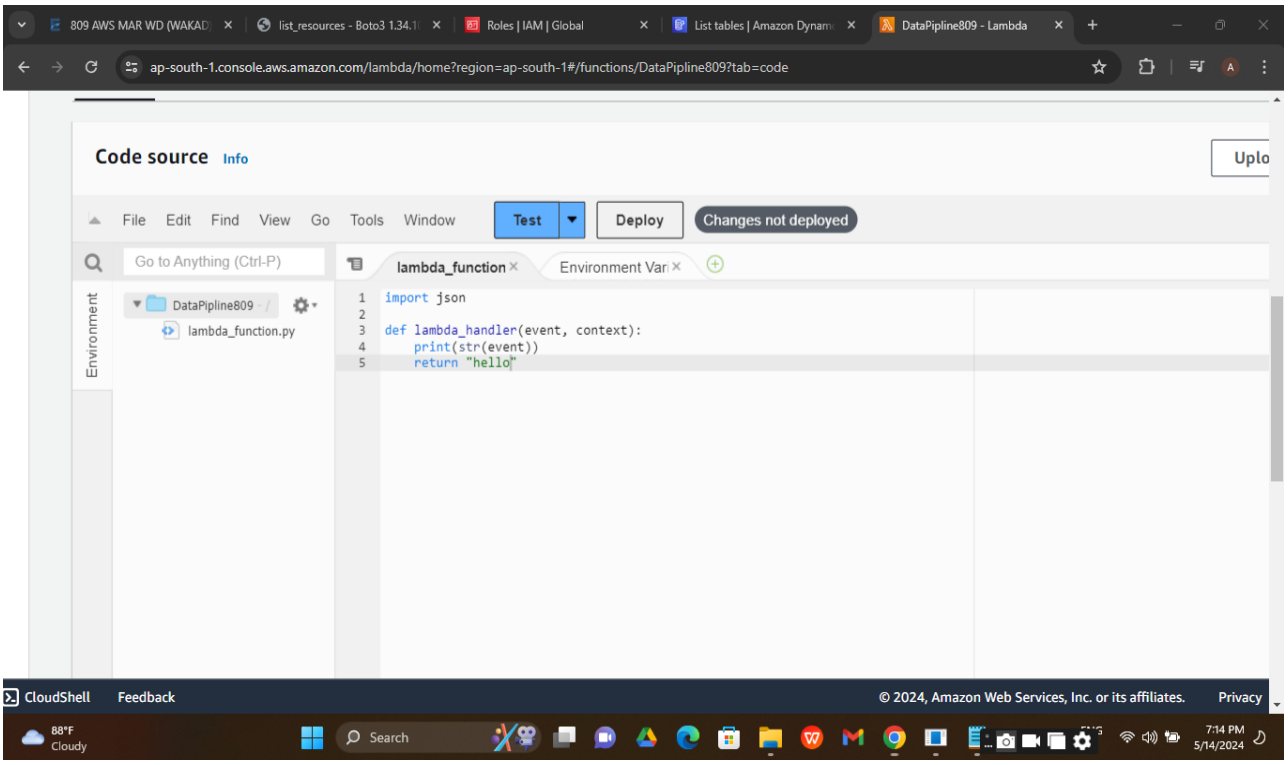
809 AWS MAR WD (WAKAD
list_resources - Boto3 1.34.1
Roles | IAM | Global
List tables | Amazon Dynam
DataPipline809 - Lambda
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/DataPipline809?tab=code
Code source Info
Uplo
File Edit Find View Go Tools Window
Test
Deploy
Changes not deployed
Go to Anything (Ctrl-P)
lambda_function
Environment Var
Environment
DataPipline809
lambda_function.py
import json
def lambda_handler(event, context):
print(str(event))
return "hello"
CloudShell
Feedback
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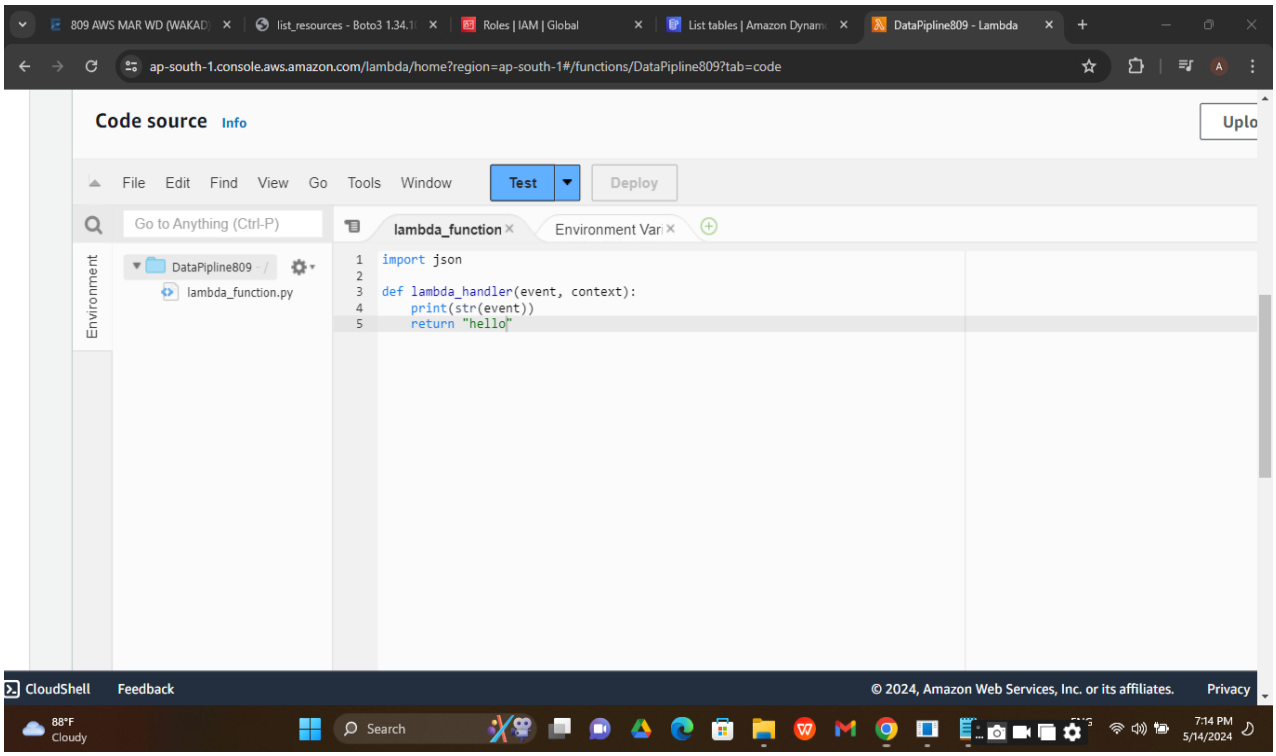
Cloudy
Search
7:14 PM
5/14/2024


809 AWS MAR WD (WAKAD
list_resources - Boto3 1.34.1
Roles | IAM | Global
List tables | Amazon Dynam
DataPipline809 - Lambda
ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/DataPipline809?tab=code
Code source Info
Uplo
File Edit Find View Go Tools Window
Test
Deploy
Go to Anything (Ctrl-P)
lambda_function
Environment Var
Environment
DataPipline809
lambda_function.py
import json
def lambda_handler(event, context):
print(str(event))
return "hello"
CloudShell
Feedback
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Cloudy
Search
7:14 PM
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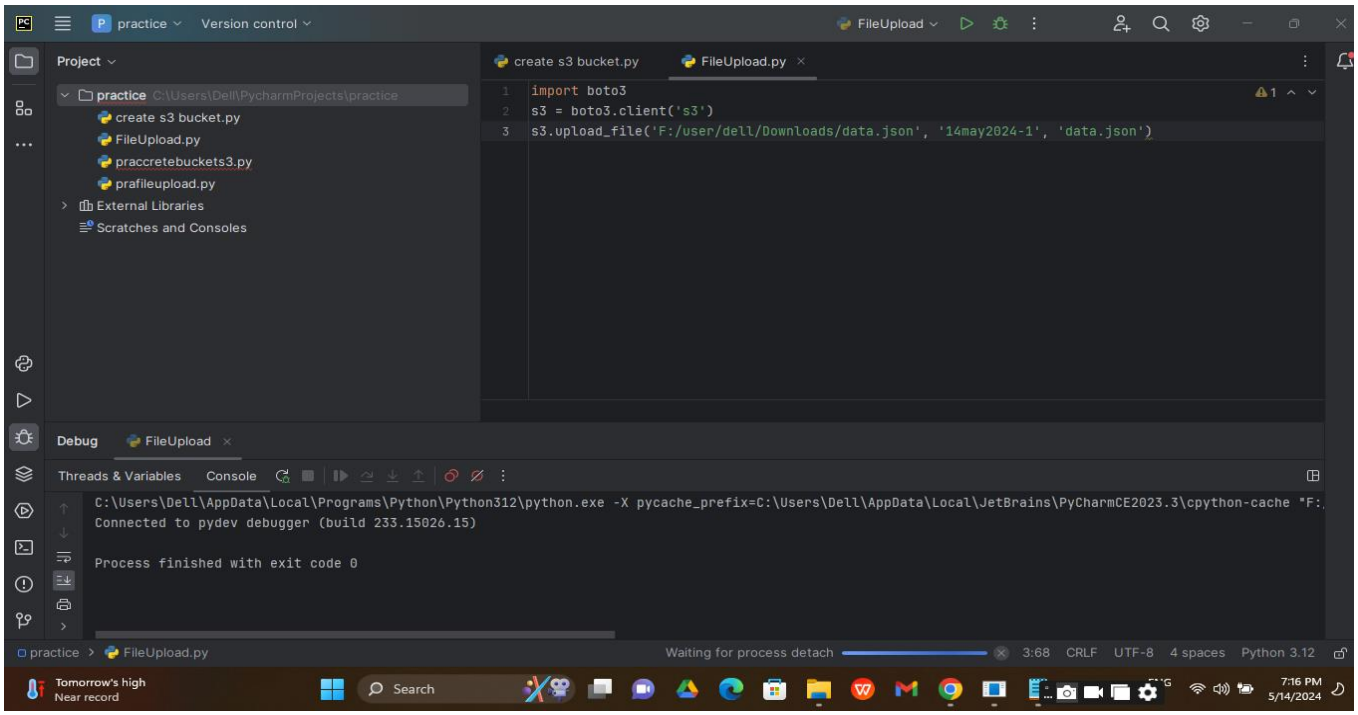
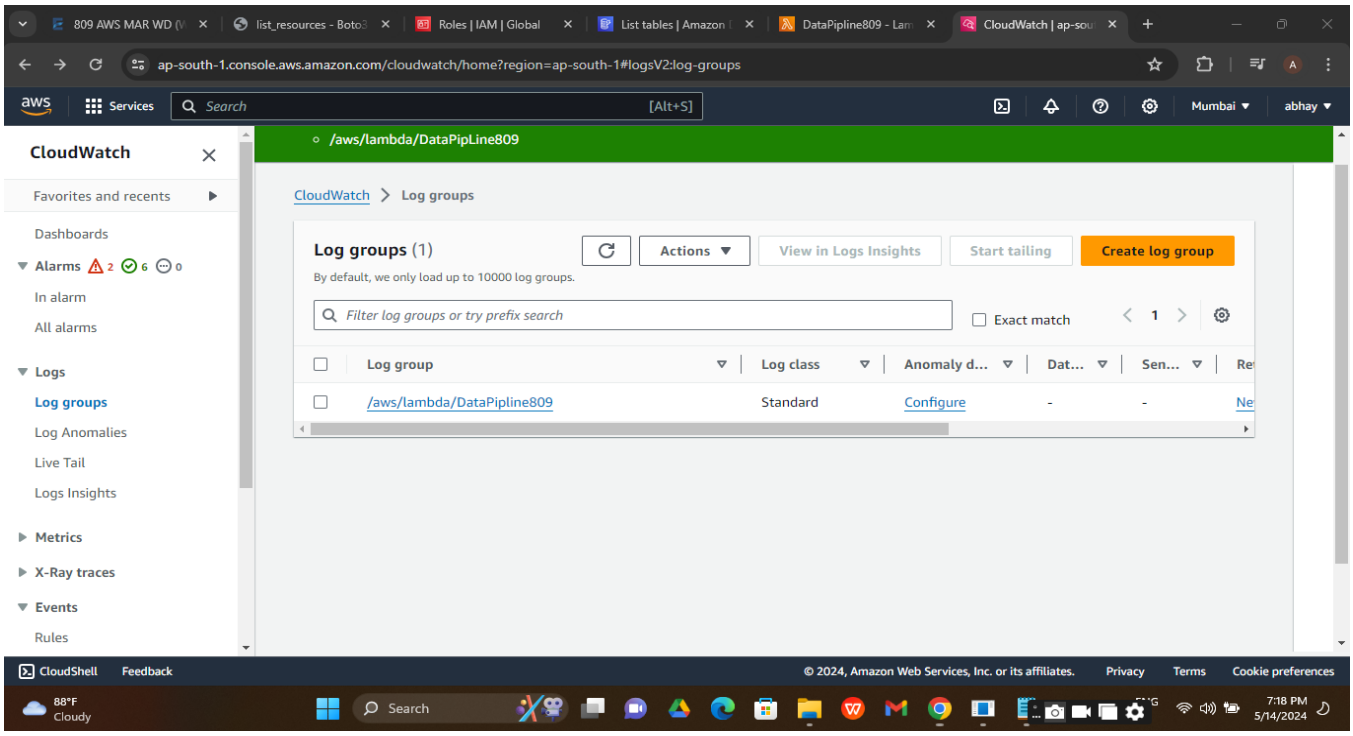

practice
Version control
FileUpload
Project
practice C:\Users\Dell\PycharmProjects\practice
create s3 bucket.py
FileUpload.py
praccretebuckets3.py
prafileupload.py
External Libraries
Scratches and Consoles
create s3 bucket.py
FileUpload.py
import boto3
s3 = boto3.client('s3')
s3.upload_file('F:/user/dell/Downloads/data.json', '14may2024-1', 'data.json')
Debug
FileUpload
Threads & Variables
Console
C:\Users\Dell\AppData\Local\Programs\Python\Python312\python.exe -X pycache_prefix=C:\Users\Dell\AppData\Local\JetBrains\PyCharmCE2023.3\cpython-cache "F:
Connected to pydev debugger (build 233.15026.15)
Process finished with exit code 0
practice > FileUpload.py
Waiting for process detach
3:68
CRLF
UTF-8
4 spaces
Python 3.12
Tomorrow's high
Near record
Search
7:16 PM
5/14/2024


809 AWS MAR WD
list_resources - Boto3
Roles | IAM | Global
List tables | Amazon
DataPipline809 - Lam
CloudWatch | ap-sou
ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#logsV2:log-groups
aws
Services
Search
[Alt+S]
Mumbai
abhay
CloudWatch
Favorites and recents
Dashboards
Alarms 2 6 0
In alarm
All alarms
Logs
Log groups
Log Anomalies
Live Tail
Logs Insights
Metrics
X-Ray traces
Events
Rules
/aws/lambda/DataPipLine809
CloudWatch > Log groups
Log groups (1)
Actions
View in Logs Insights
Start tailing
Create log group
By default, we only load up to 10000 log groups.
Filter log groups or try prefix search
Exact match
Log group
Log class
Anomaly d...
Dat...
Sen...
/aws/lambda/DataPipline809
Standard
Configure
CloudShell
Feedback
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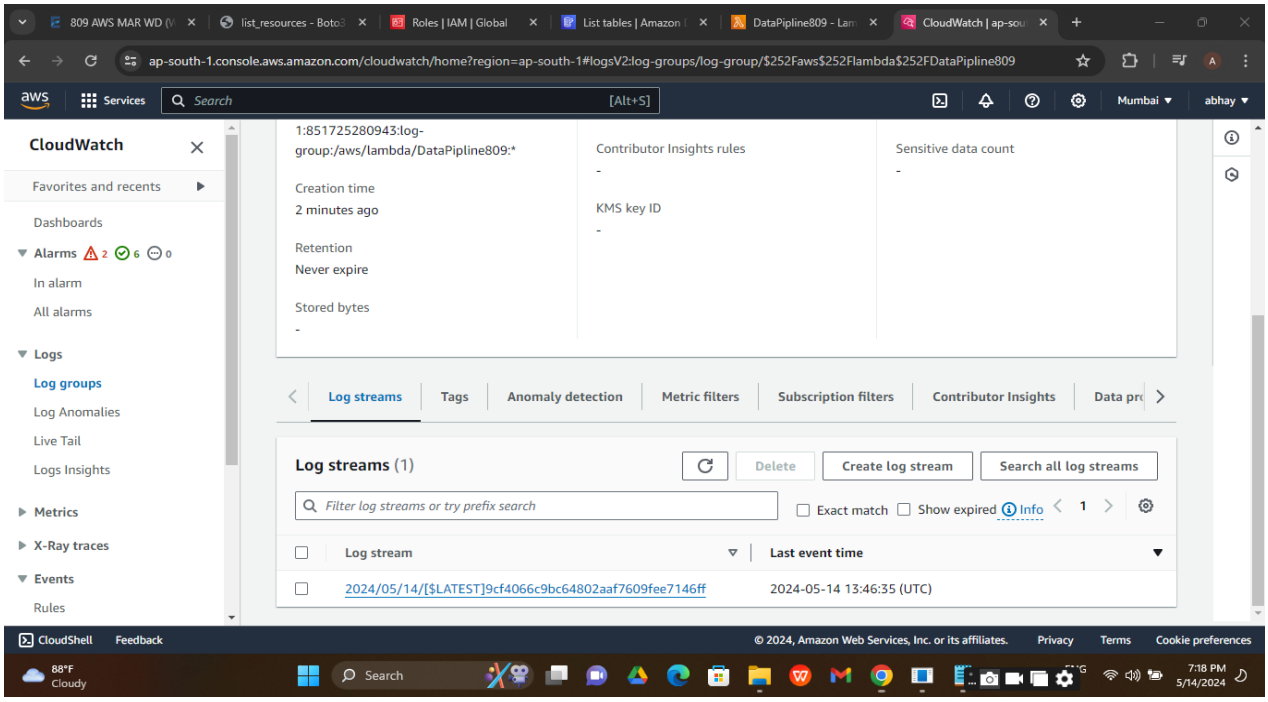
88°F
Cloudy
Search
7:18 PM
5/14/2024


CloudWatch
Favorites and recents
Dashboards
Alarms
In alarm
All alarms
Logs
Log groups
Log Anomalies
Live Tail
Logs Insights
Metrics
X-Ray traces
Events
Rules
Creation time
2 minutes ago
Retention
Never expire
Stored bytes
Contributor Insights rules
KMS key ID
Sensitive data count
Log streams
Tags
Anomaly detection
Metric filters
Subscription filters
Contributor Insights
Log streams (1)
Delete
Create log stream
Search all log streams
Filter log streams or try prefix search
Exact match
Show expired
Info
Log stream
Last event time
2024/05/14/[$LATEST]9cf4066c9bc64802aaf7609fee7146ff
2024-05-14 13:46:35 (UTC)
CloudShell
Feedback
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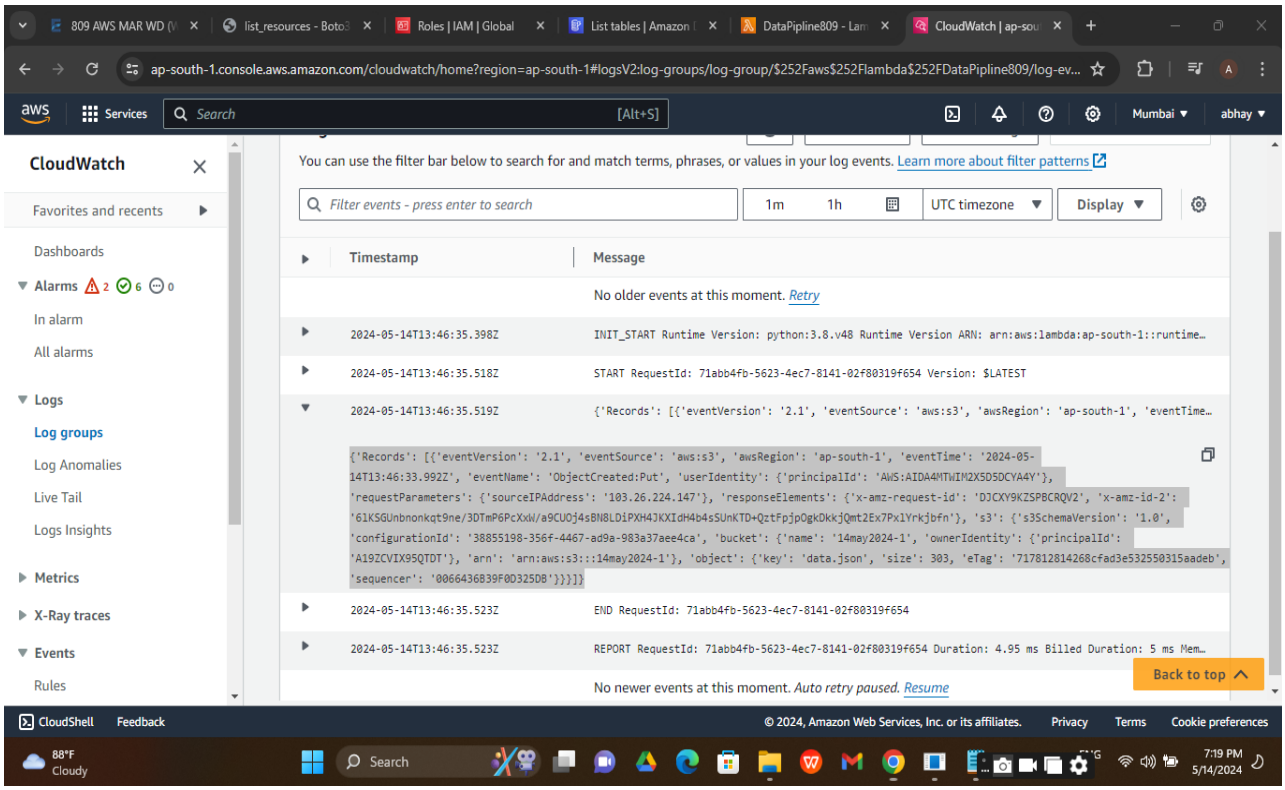
CloudWatch
You can use the filter bar below to search for and match terms, phrases, or values in your log events. Learn more about filter patterns
Filter events - press enter to search
1m
1h
UTC timezone
Display
Timestamp
Message
No older events at this moment. Retry
2024-05-14T13:46:35.398Z
INIT_START Runtime Version: python:3.8.v48 Runtime Version ARN: arn:aws:lambda:ap-south-1::runtime…
2024-05-14T13:46:35.518Z
START RequestId: 71abb4fb-5623-4ec7-8141-02f80319f654 Version: $LATEST
2024-05-14T13:46:35.519Z
{'Records': [{'eventVersion': '2.1', 'eventSource': 'aws:s3', 'awsRegion': 'ap-south-1', 'eventTime': '2024-05-14T13:46:33.992Z', 'eventName': 'ObjectCreated:Put', 'userIdentity': {'principalId': 'AWS:AIDA4MTWIM2X5D5DCYA4Y'}, 'requestParameters': {'sourceIPAddress': '103.26.224.147'}, 'responseElements': {'x-amz-request-id': 'DJCXY9KZSPBCRQV2', 'x-amz-id-2': '61KSGUnbnonkqt9ne/3DTmP6PcXxW/a9CUOj4sBN8LDiPXH4JKXIdH4b4sSUnKTD+QztFpjpOgkDkkjQmt2Ex7Px1Yrkjbfn'}, 's3': {'s3SchemaVersion': '1.0', 'configurationId': '38855198-356f-4467-ad9a-983a37aee4ca', 'bucket': {'name': '14may2024-1', 'ownerIdentity': {'principalId': 'A19ZCVIX95QTDT'}, 'arn': 'arn:aws:s3:::14may2024-1'}, 'object': {'key': 'data.json', 'size': 303, 'eTag': '717812814268cfad3e532550315aadeb', 'sequencer': '0066436B39F0D325D8'}}}]}
2024-05-14T13:46:35.523Z
END RequestId: 71abb4fb-5623-4ec7-8141-02f80319f654
2024-05-14T13:46:35.523Z
REPORT RequestId: 71abb4fb-5623-4ec7-8141-02f80319f654 Duration: 4.95 ms Billed Duration: 5 ms Mem…
No newer events at this moment. Auto retry paused. Resume
Back to top
CloudShell
Feedback
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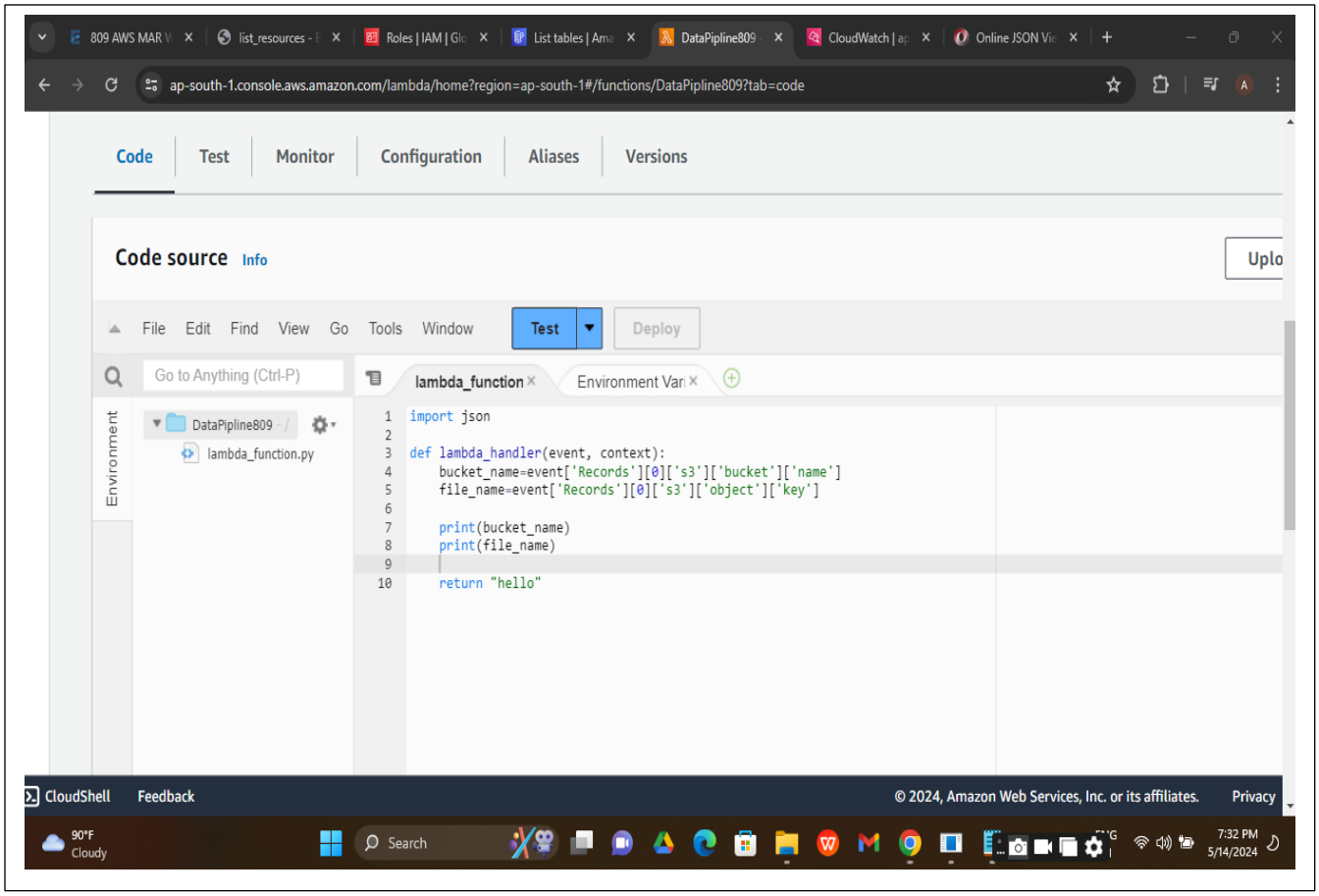
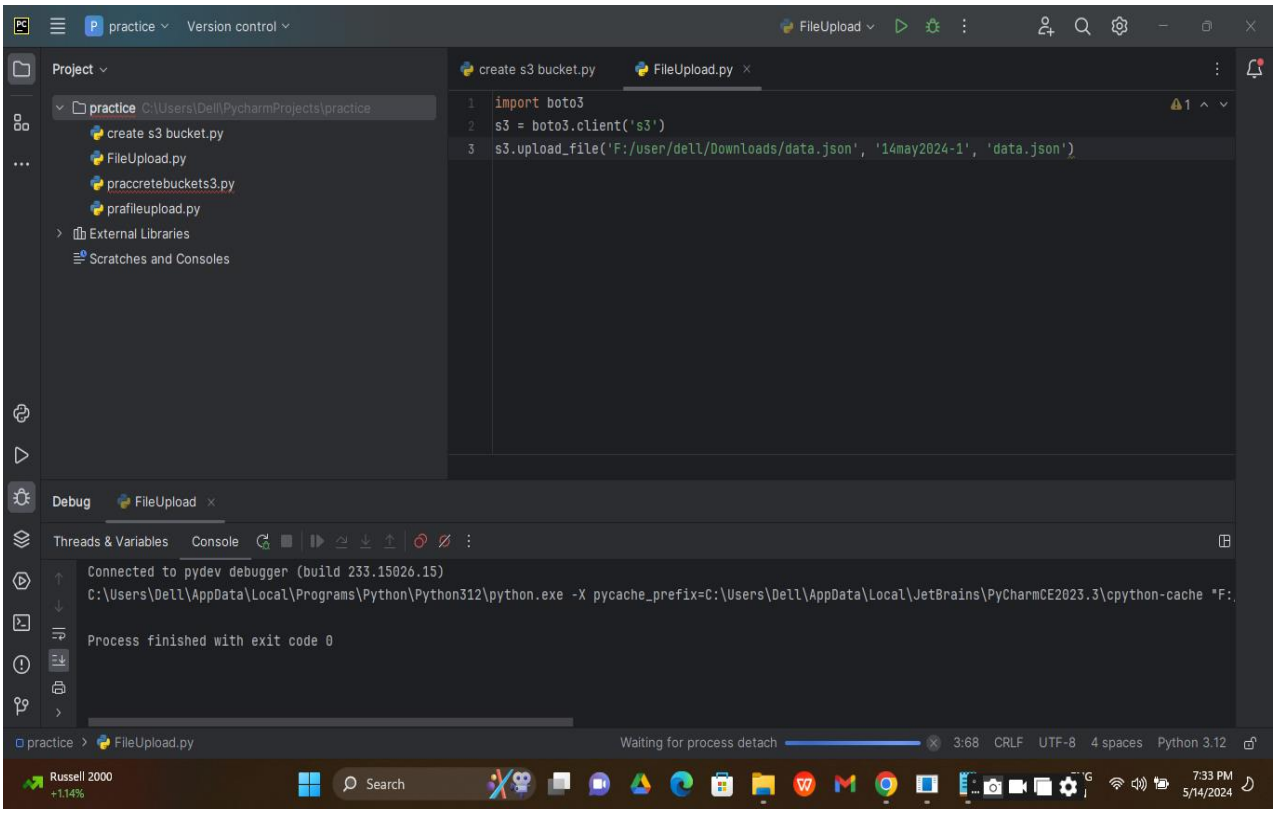
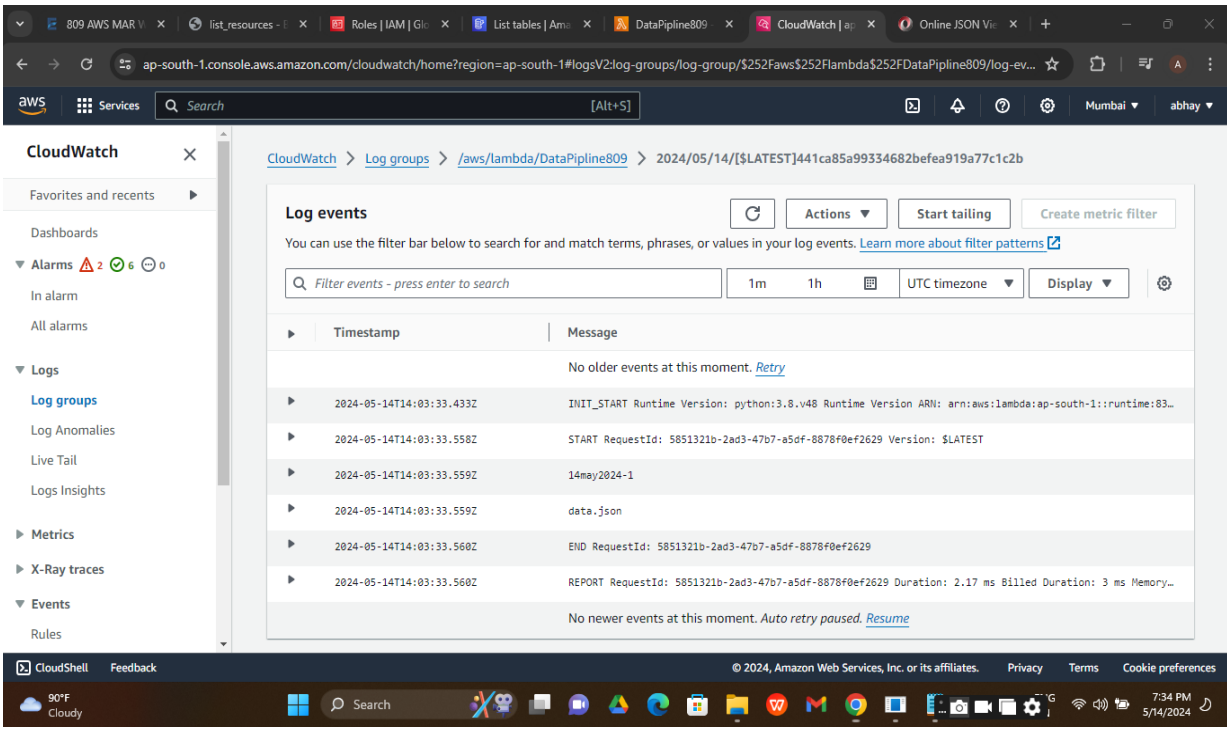
- We are the code in lambda for read the file from bucket and write in dynamodb database and also, covert the format in which we want to write.
- We write bucket and file name and check whether it is resolved or not.
- Upload the bucket for trigger and go to logs groups and see the resolved.




practice
Version control
FileUpload
Project
create s3 bucket.py
FileUpload.py
practice C:\Users\Dell\PycharmProjects\practice
create s3 bucket.py
FileUpload.py
praccretebuckets3.py
prafileupload.py
External Libraries
Scratches and Consoles
import boto3
s3 = boto3.client('s3')
s3.upload_file('F:/user/dell/Downloads/data.json', '14may2024-1', 'data.json')
Debug
FileUpload
Threads & Variables
Console
Connected to pydev debugger (build 233.15026.15)
C:\Users\Dell\AppData\Local\Programs\Python\Python312\python.exe -X pycache_prefix=C:\Users\Dell\AppData\Local\JetBrains\PyCharmCE2023.3\cpython-cache "F:
Process finished with exit code 0
practice
FileUpload.py
Waiting for process detach
3:68
CRLF
UTF-8
4 spaces
Python 3.12
Russell 2000
+1.14%
Search
7:33 PM
5/14/2024


ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#logsV2:log-groups/log-group/$252Faws$252Flambda$252FDataPipline809/log-ev...
aws
Services
Search
[Alt+S]
Mumbai
abhay
CloudWatch
Favorites and recents
Dashboards
Alarms
In alarm
All alarms
Logs
Log groups
Log Anomalies
Live Tail
Logs Insights
Metrics
X-Ray traces
Events
Rules
CloudWatch > Log groups > /aws/lambda/DataPipline809 > 2024/05/14/[$LATEST]441ca85a99334682befea919a77c1c2b
Log events
Actions
Start tailing
Create metric filter
You can use the filter bar below to search for and match terms, phrases, or values in your log events. Learn more about filter patterns
Filter events - press enter to search
1m
1h
UTC timezone
Display
Timestamp
Message
No older events at this moment. Retry
2024-05-14T14:03:33.433Z INIT_START Runtime Version: python:3.8.v48 Runtime Version ARN: arn:aws:lambda:ap-south-1::runtime:83...
2024-05-14T14:03:33.558Z START RequestId: 5851321b-2ad3-47b7-a5df-8878f0ef2629 Version: $LATEST
2024-05-14T14:03:33.559Z 14may2024-1
2024-05-14T14:03:33.559Z data.json
2024-05-14T14:03:33.560Z END RequestId: 5851321b-2ad3-47b7-a5df-8878f0ef2629
2024-05-14T14:03:33.560Z REPORT RequestId: 5851321b-2ad3-47b7-a5df-8878f0ef2629 Duration: 2.17 ms Billed Duration: 3 ms Memory...
No newer events at this moment. Auto retry paused. Resume
CloudShell
Feedback
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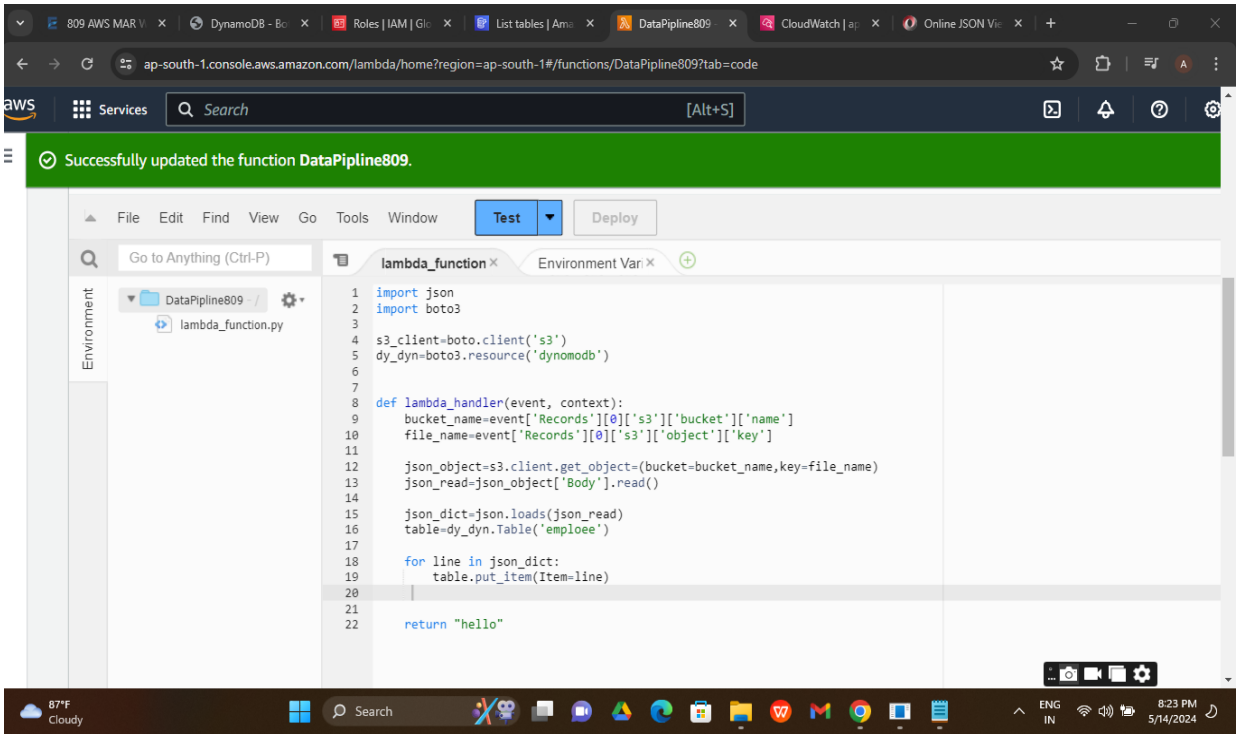
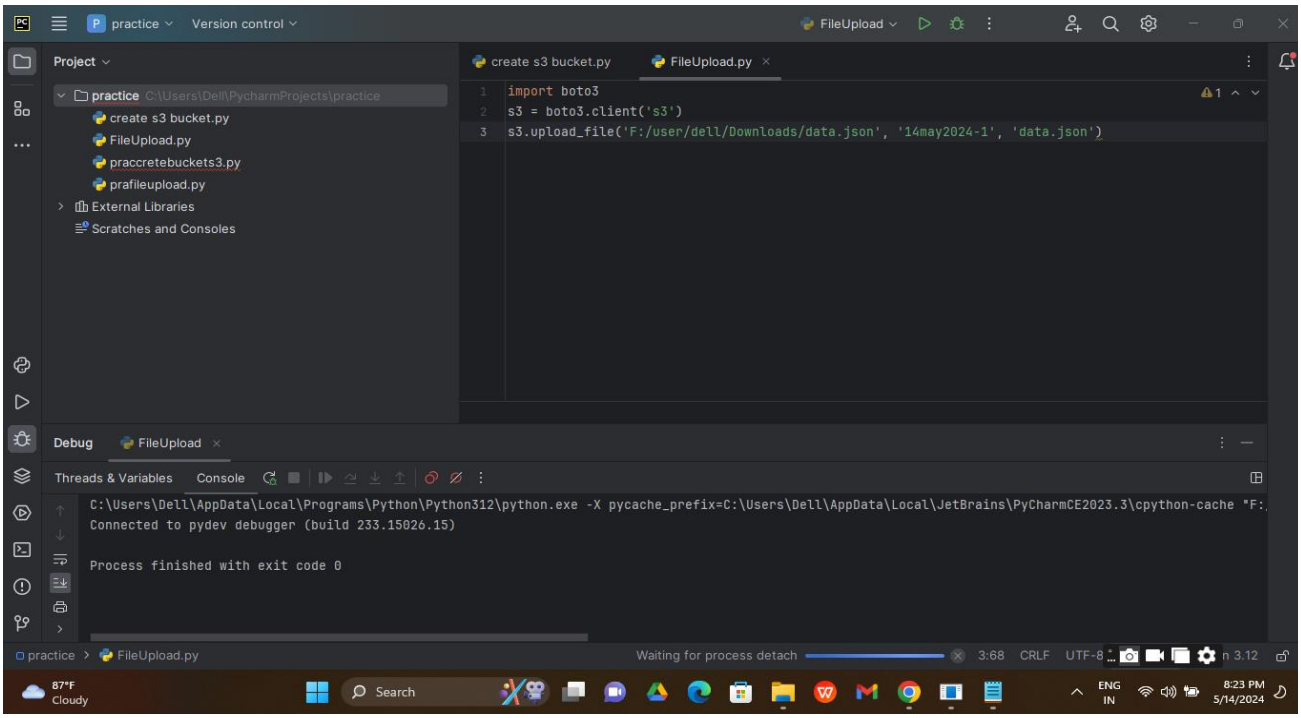
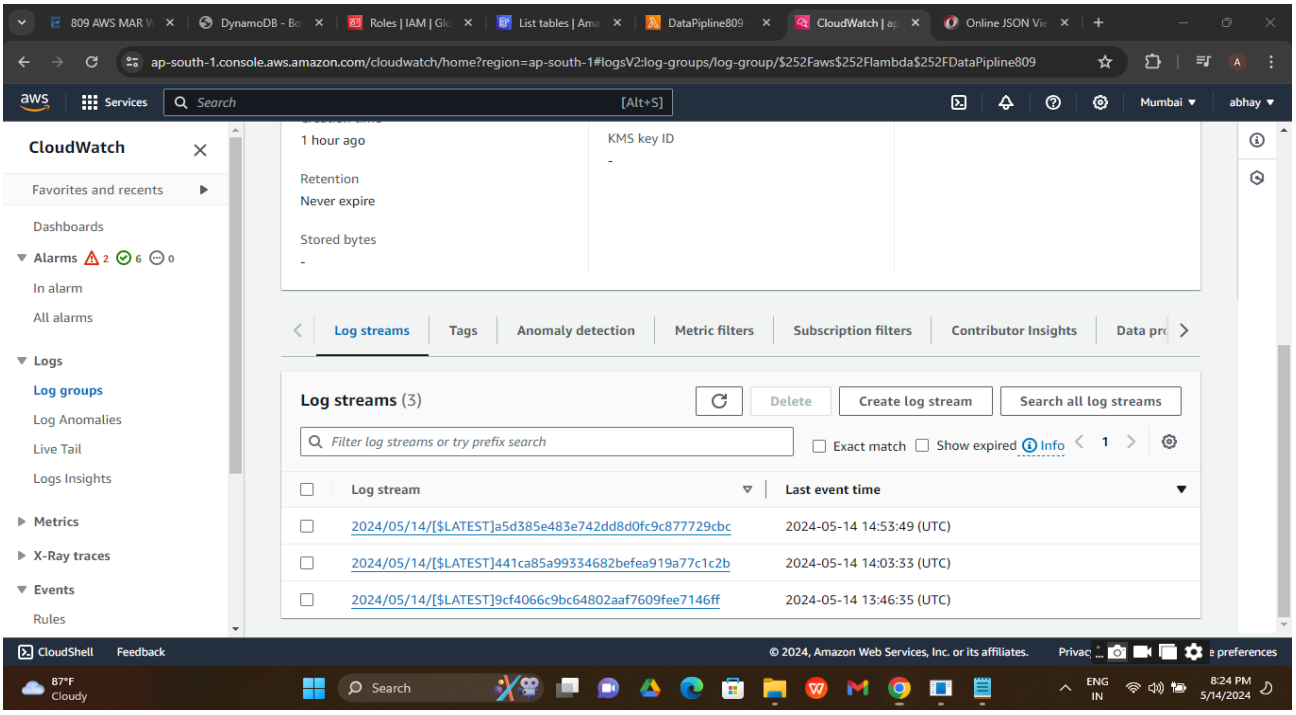
Terms
Cookie preferences
90°F
Cloudy
Search
7:34 PM
5/14/2024

- Write code for lambda automation datapipline
- Upload file as trigger
- Go to dynamodb database and check data will store.




practice
Version control
FileUpload
Project
practice C:\Users\Dell\PycharmProjects\practice
create s3 bucket.py
FileUpload.py
praccretebuckets3.py
prafileupload.py
External Libraries
Scratches and Consoles
create s3 bucket.py
FileUpload.py
import boto3
s3 = boto3.client('s3')
s3.upload_file('F:/user/dell/Downloads/data.json', '14may2024-1', 'data.json')
Debug
FileUpload
Threads & Variables
Console
C:\Users\Dell\AppData\Local\Programs\Python\Python312\python.exe -X pycache_prefix=C:\Users\Dell\AppData\Local\JetBrains\PyCharmCE2023.3\cpython-cache "F:
Connected to pydev debugger (build 233.15026.15)
Process finished with exit code 0
practice
FileUpload.py
Waiting for process detach
3:68
CRLF
UTF-8
87°F
Cloudy
Search
ENG
IN
8:23 PM
5/14/2024


ap-south-1.console.aws.amazon.com/cloudwatch/home?region=ap-south-1#logsV2:log-groups/log-group/$252Faws$252Flambda$252FDataPipline809
aws
Services
Search
[Alt+S]
Mumbai
abhay
CloudWatch
Favorites and recents
Dashboards
Alarms
In alarm
All alarms
Logs
Log groups
Log Anomalies
Live Tail
Logs Insights
Metrics
X-Ray traces
Events
Rules
1 hour ago
KMS key ID
-
Retention
Never expire
Stored bytes
-
Log streams
Tags
Anomaly detection
Metric filters
Subscription filters
Contributor Insights
Log streams (3)
Delete
Create log stream
Search all log streams
Filter log streams or try prefix search
Exact match
Show expired
Info
Log stream
Last event time
2024/05/14/[$LATEST]a5d385e483e742dd8d0fc9c877729cbc
2024-05-14 14:53:49 (UTC)
2024/05/14/[$LATEST]441ca85a99334682befea919a77c1c2b
2024-05-14 14:03:33 (UTC)
2024/05/14/[$LATEST]9cf4066c9bc64802aaf7609fee7146ff
2024-05-14 13:46:35 (UTC)
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Feedback
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87°F
Cloudy
Search
ENG
IN
8:24 PM
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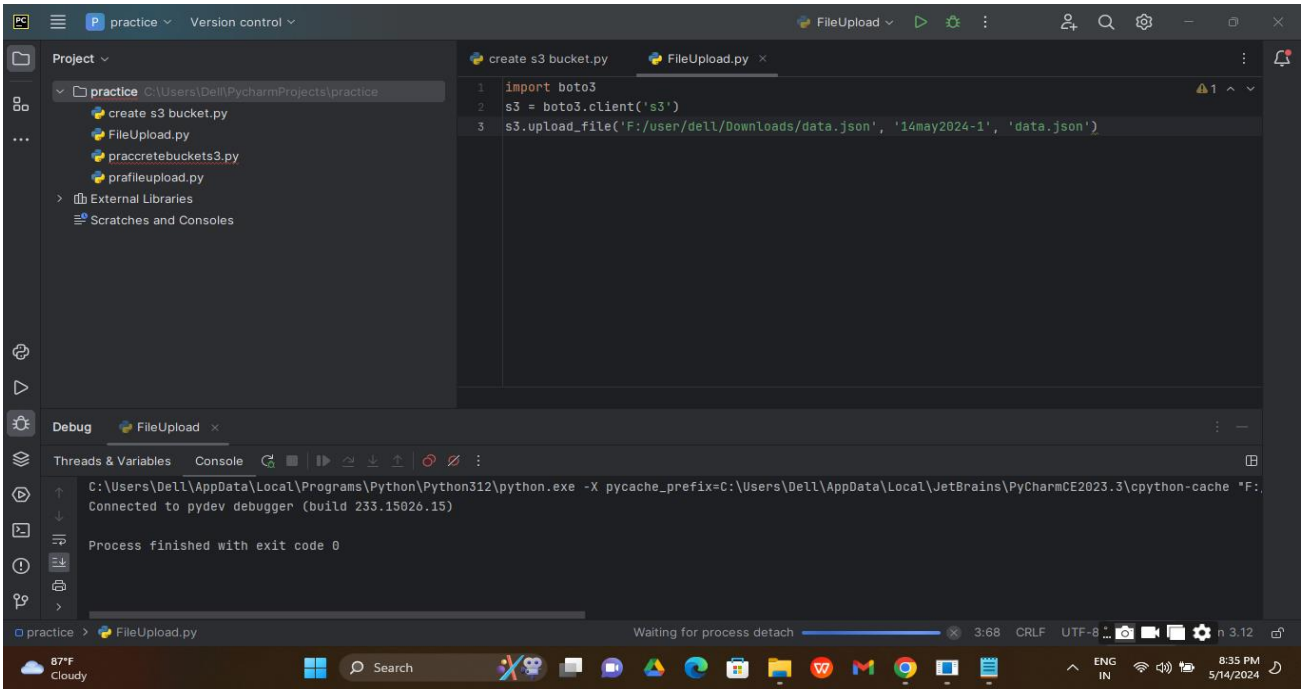
practice
Version control
FileUpload
Project
practice C:\Users\Dell\PycharmProjects\practice
create s3 bucket.py
FileUpload.py
praccretebuckets3.py
prafileupload.py
External Libraries
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FileUpload
Threads & Variables
Console
C:\Users\Dell\AppData\Local\Programs\Python\Python312\python.exe -X pycache_prefix=C:\Users\Dell\AppData\Local\JetBrains\PyCharmCE2023.3\cpython-cache "F:
Connected to pydev debugger (build 233.15026.15)
Process finished with exit code 0
practice
FileUpload.py
Waiting for process detach
3:68
CRLF
UTF-8
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Cloudy
Search
ENG
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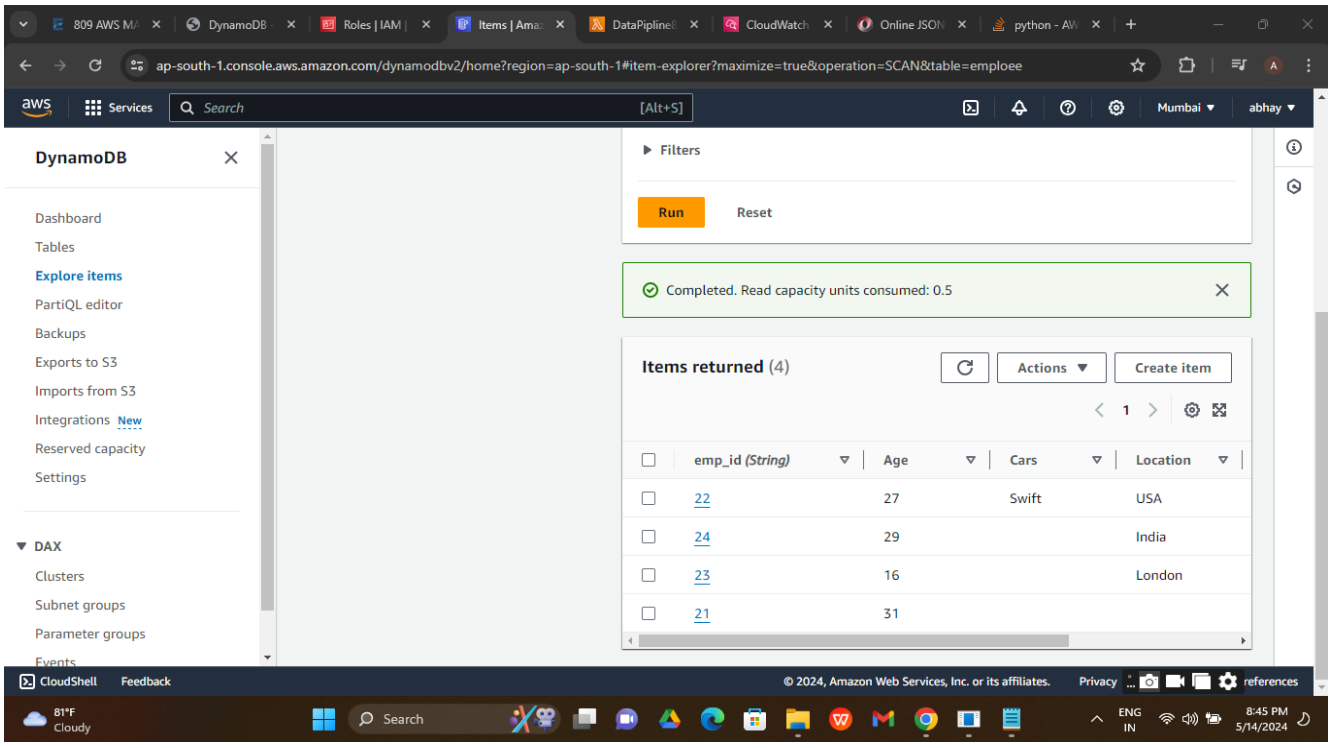
8:35 PM
5/14/2024


809 AWS MA
DynamoDB
Roles | IAM |
Items | Ama
DataPipline
CloudWatch
Online JSON
python - AW
ap-south-1.console.aws.amazon.com/dynamodbv2/home?region=ap-south-1#item-explorer?maximize=true&operation=SCAN&table=emploee
aws
Services
Search
[Alt+S]
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abhay
DynamoDB
Dashboard
Tables
Explore items
PartiQL editor
Backups
Exports to S3
Imports from S3
Integrations New
Reserved capacity
Settings
DAX
Clusters
Subnet groups
Parameter groups
Events
Filters
Run
Reset
Completed. Read capacity units consumed: 0.5
Items returned (4)
Actions
Create item
emp_id (String)
Age
Cars
Location
22
27
Swift
USA
24
29
India
23
16
London
21
31
CloudShell
Feedback
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