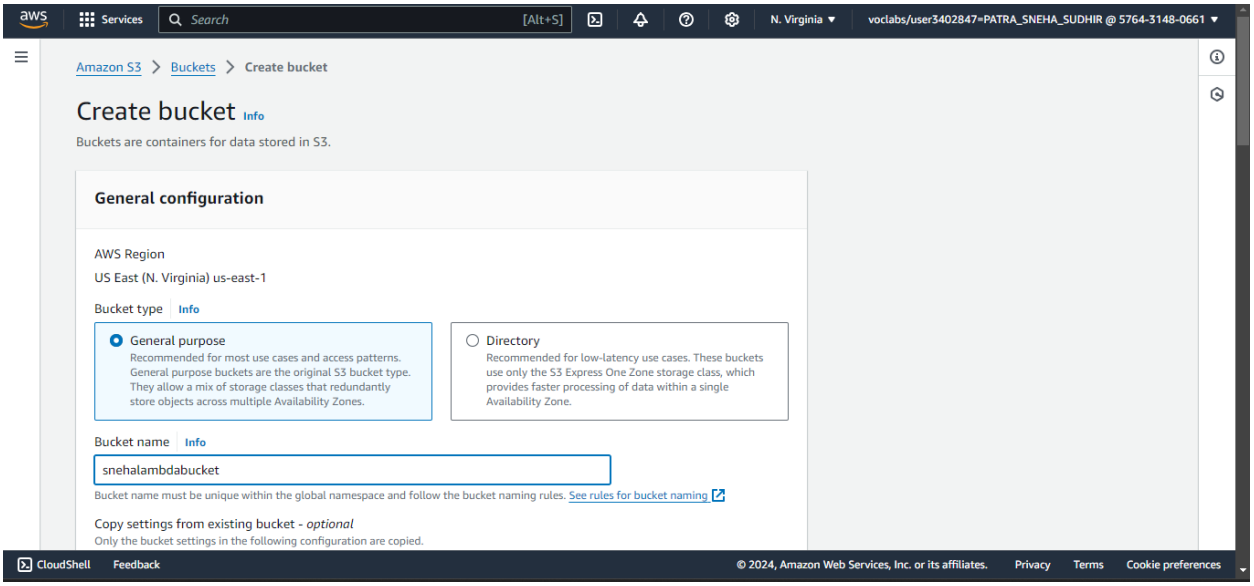
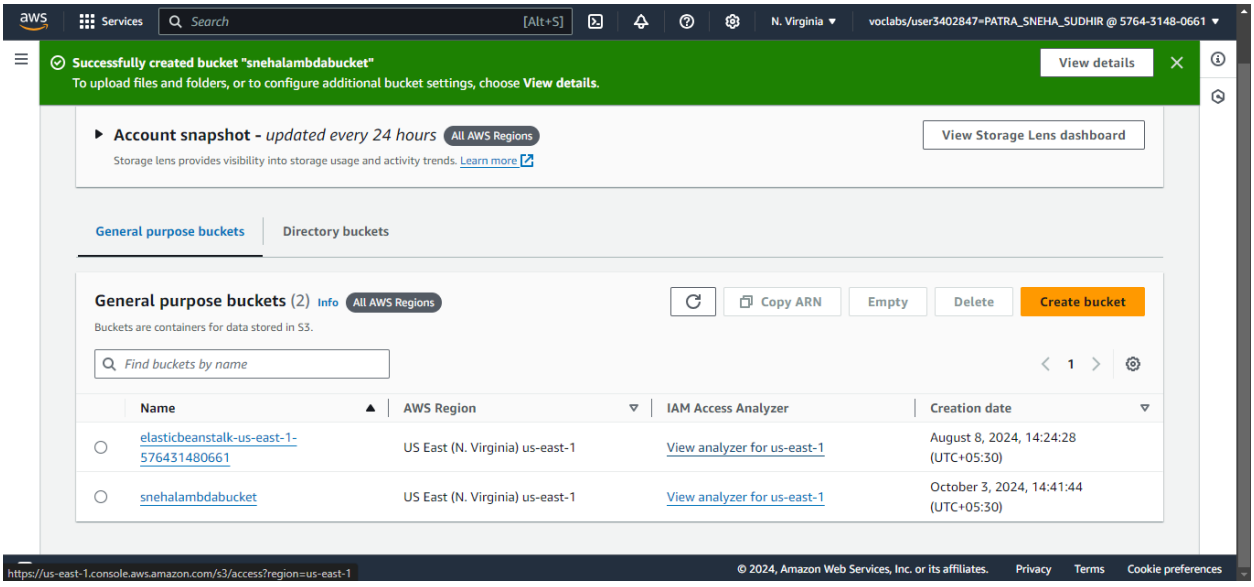
Experiment-12

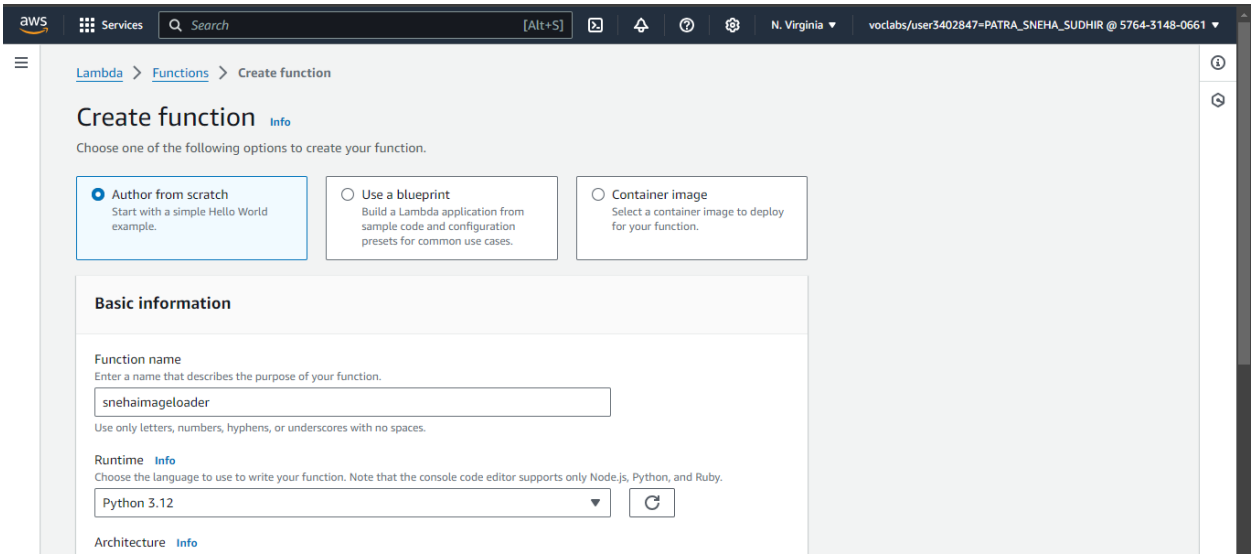
AIM: To create a Lambda function which will log “An Image has been added” once you add an object to a specific bucket in S3.

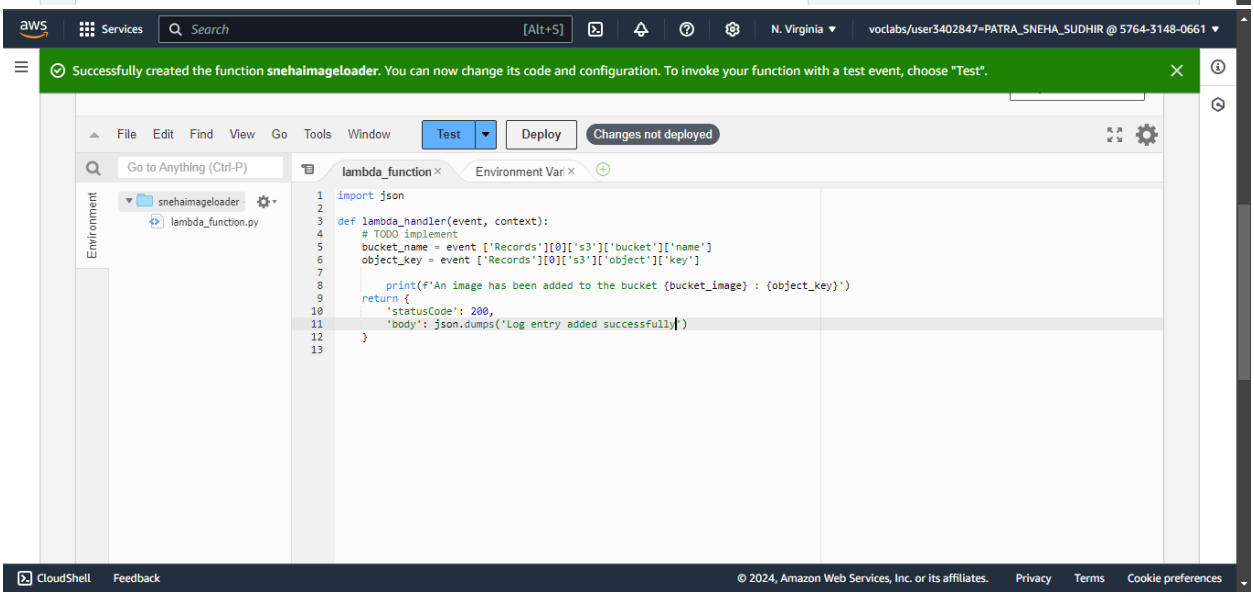
Step 1: First, create an S3 bucket that will store the objects. This bucket will act as the trigger source for the Lambda function.



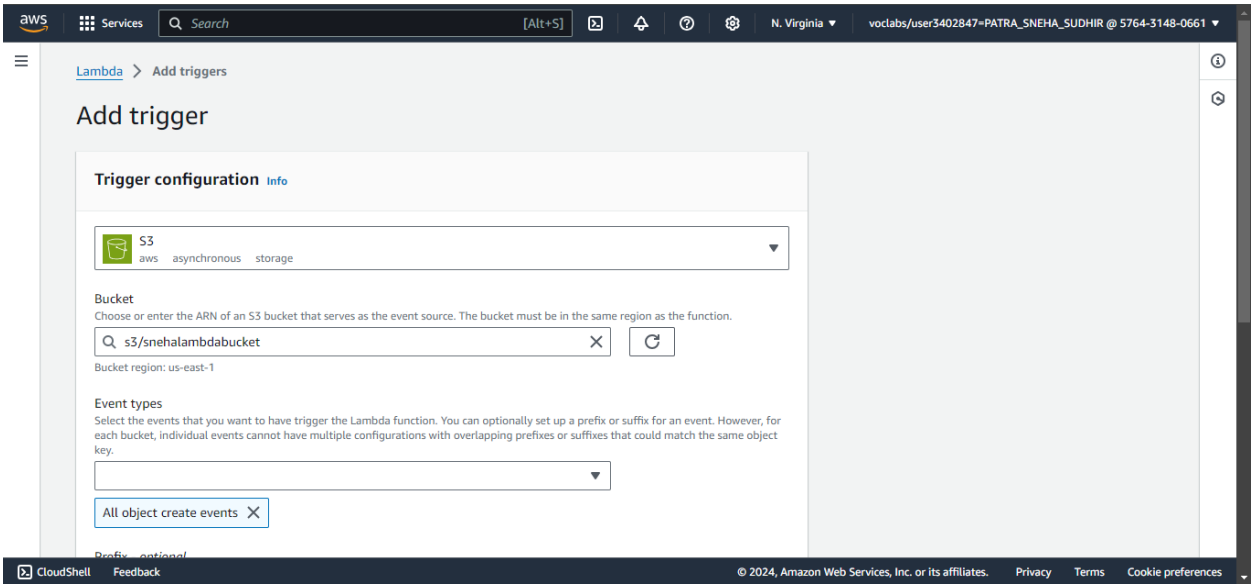


Step 2: Set up a new Lambda function using AWS Lambda's console. You can choose a runtime environment like Python, Node.js, or Java. I have selected python environment.





Step 3:Link the S3 bucket to the Lambda function by setting up a trigger.


Services
Search
[Alt+S]
N. Virginia
voclabs/user3402847=PATRA_SNEHA_SUDHIR @ 5764-3148-0661
Lambda
Add triggers
Add trigger
Trigger configuration
Info
S3
aws
asynchronous
storage
Bucket
Choose or enter the ARN of an S3 bucket that serves as the event source. The bucket must be in the same region as the function.
s3/snehalambdabucket
Bucket region: us-east-1
Event types
Select the events that you want to have trigger the Lambda function. You can optionally set up a prefix or suffix for an event. However, for each bucket, individual events cannot have multiple configurations with overlapping prefixes or suffixes that could match the same object key.
All object create events
CloudShell
Feedback
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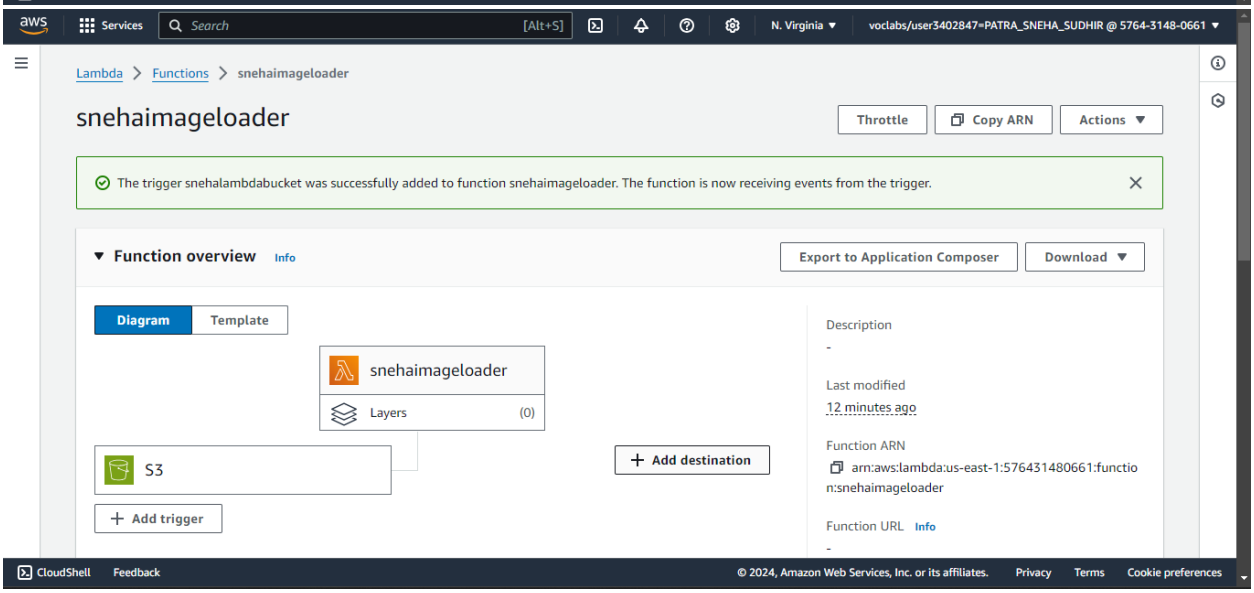
Services
Search
[Alt+S]
N. Virginia
voclabs/user3402847=PATRA_SNEHA_SUDHIR @ 5764-3148-0661
Lambda
Functions
snehaimageloader
snehaimageloader
Throttle
Copy ARN
Actions
The trigger snehalambdabucket was successfully added to function snehaimageloader. The function is now receiving events from the trigger.
Function overview
Info
Export to Application Composer
Download
Diagram
Template
snehaimageloader
Layers
(0)
S3
Add trigger
Add destination
Description
-
Last modified
12 minutes ago
Function ARN
arn:aws:lambda:us-east-1:576431480661:function:snehaimageloader
Function URL
Info
-
CloudShell
Feedback
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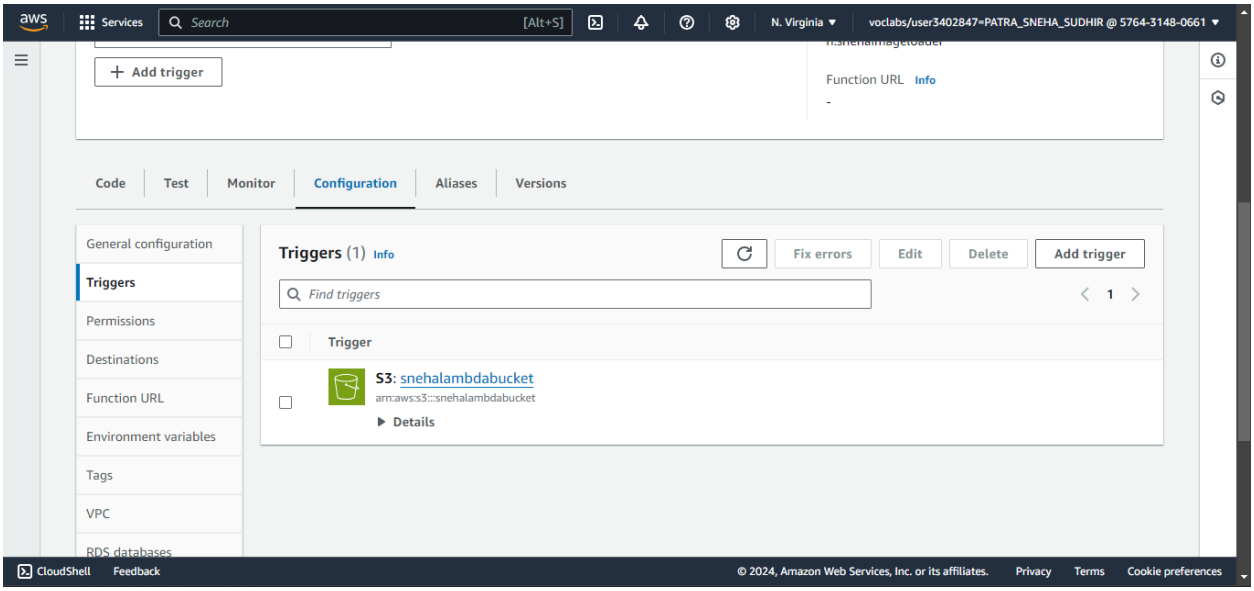
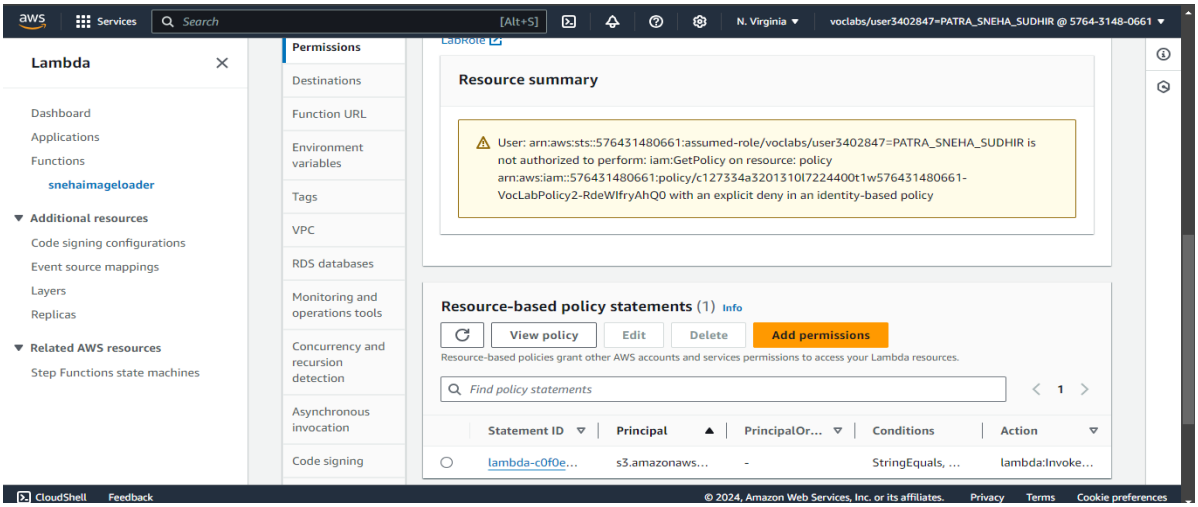
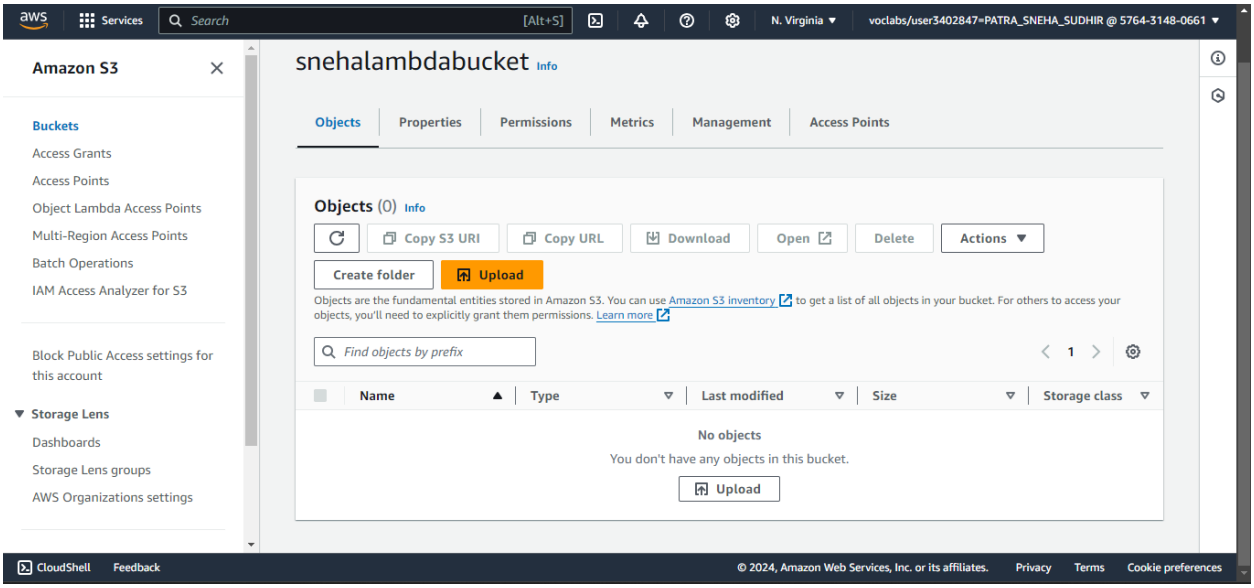
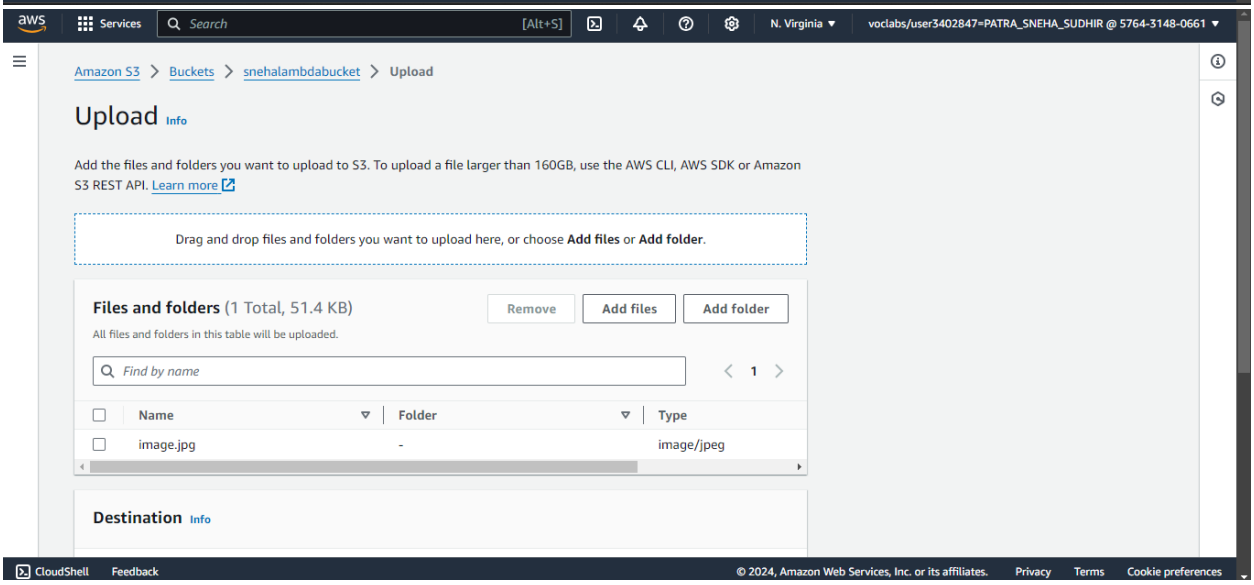


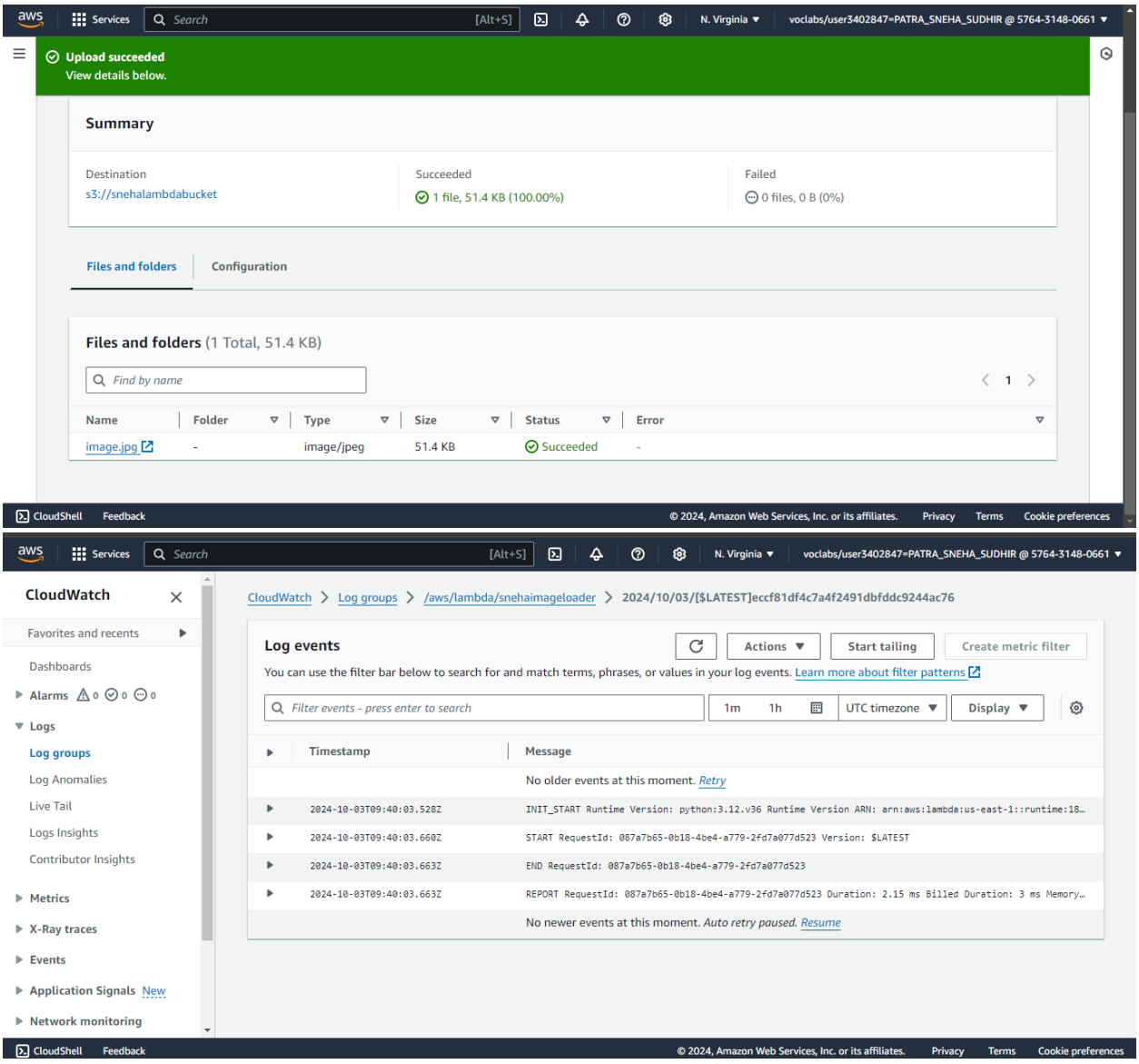
Step 4:Setup rthe required permissions.



Step 5: Upload an object (e.g., an image) to the S3 bucket to test the trigger. The Lambda function should execute and log the message “An Image has been added” in AWS CloudWatch Logs.







Conclusion:

Integrating AWS Lambda with S3 allows for real-time, automated processing of events such as file uploads. In this example, a Lambda function is configured to log a message whenever an image is added to a specific S3 bucket. This setup demonstrates the power and flexibility of serverless computing by automating tasks without requiring manual intervention or server management. By leveraging AWS Lambda, developers can efficiently handle event-driven workflows, reduce operational overhead, and quickly deploy scalable solutions that respond to specific actions within cloud environments.