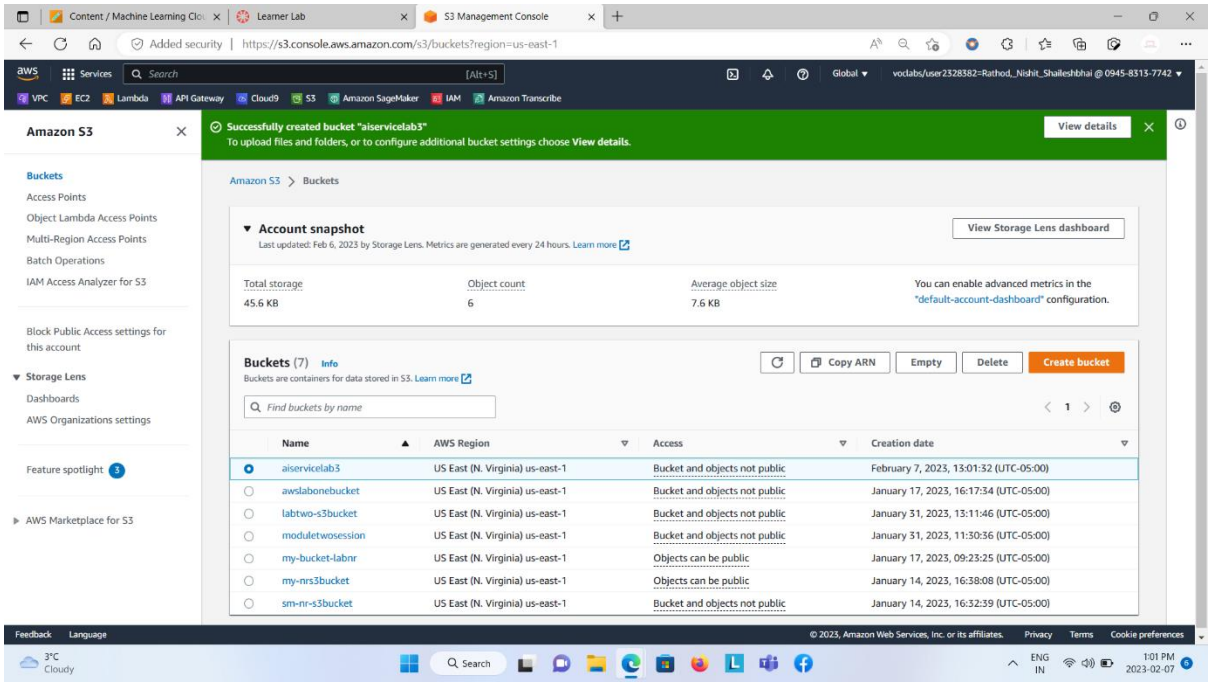
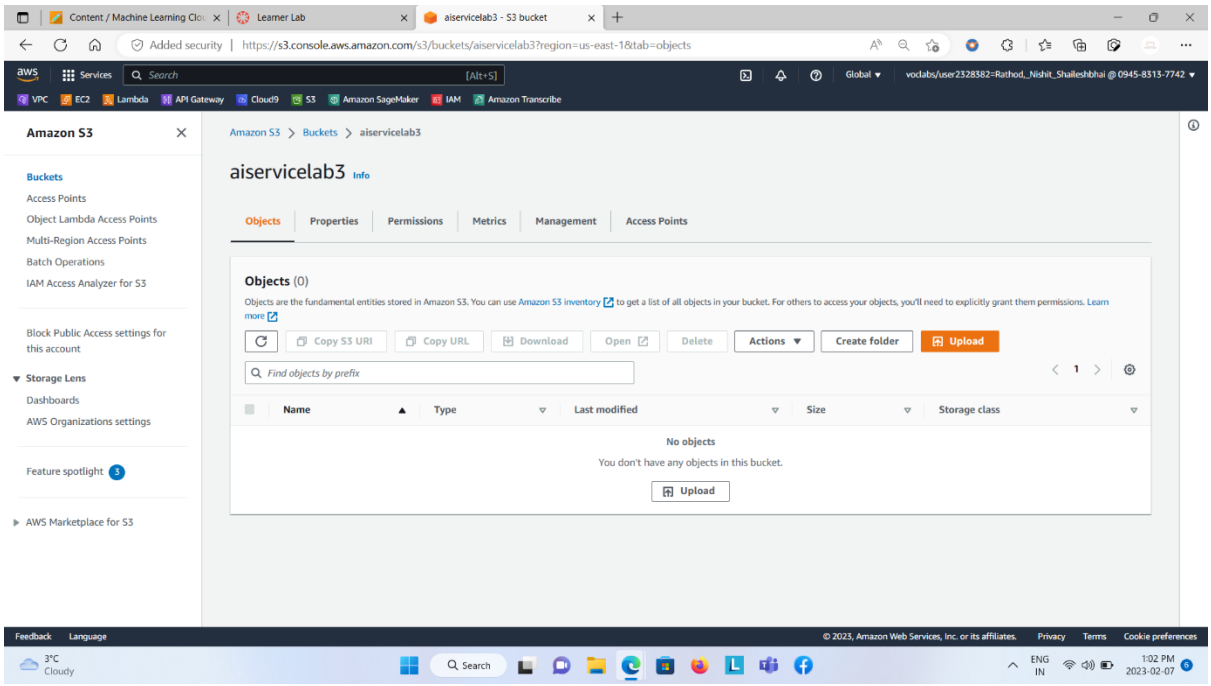
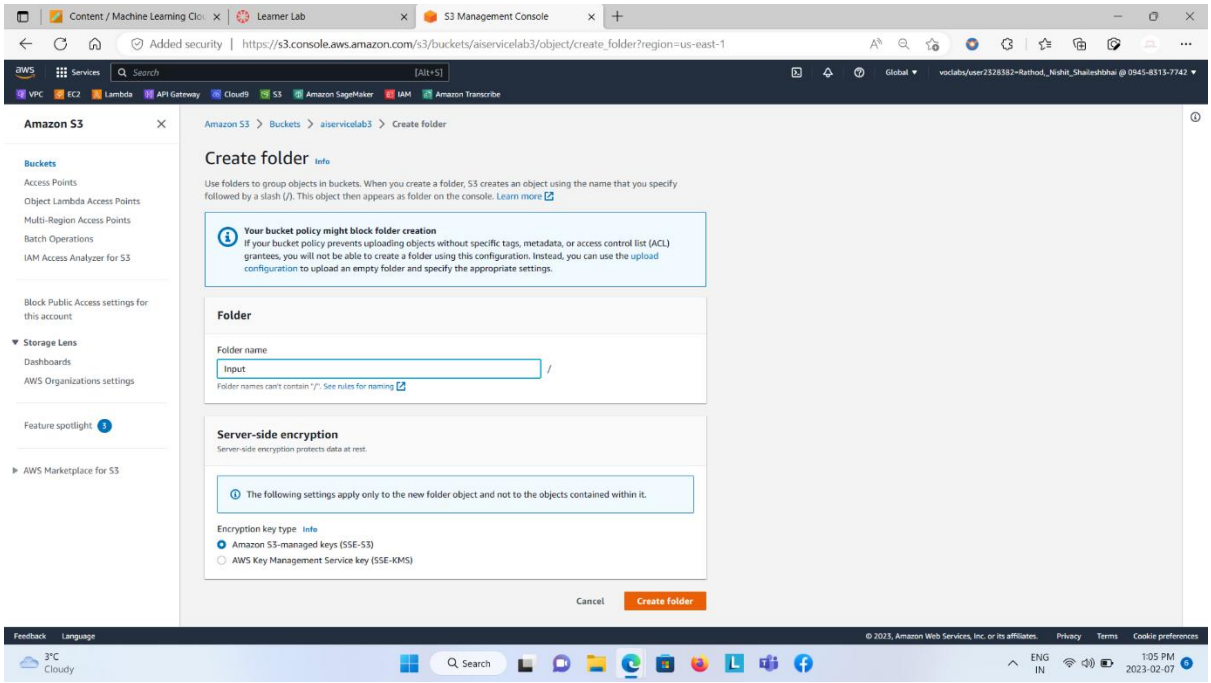
Assignment 3

Use one of the services like translate, transcribe, Rekognition, etc. and upload an appropriate file in S3 (depending on the target AI service, upload different file formats). That upload should triggers a lambda function code and use that event to learn about the location of object in the S3 bucket. After that, pass that object to the AI service to do the job like translation, or detecting some sentiment or detecting text inside image, based on the chosen AI service. The result of that AI service should be either printed in Lambda function or show in cloudwatch or save in S3.

Step 1: Create S3 Bucket and Inside it Create a Folder.






Content / Machine Learning Clo
Learner Lab
S3 Management Console
Added security | https://s3.console.aws.amazon.com/s3/buckets/aiservicelab3/object/create_folder?region=us-east-1
Amazon S3
Amazon S3 > Buckets > aiservicelab3 > Create folder
Create folder Info
Use folders to group objects in buckets. When you create a folder, S3 creates an object using the name that you specify followed by a slash (/). This object then appears as folder on the console. Learn more
Your bucket policy might block folder creation
If your bucket policy prevents uploading objects without specific tags, metadata, or access control list (ACL) grantees, you will not be able to create a folder using this configuration. Instead, you can use the upload configuration to upload an empty folder and specify the appropriate settings.
Folder
Folder name
Input
Folder names can't contain "/". See rules for naming
Server-side encryption
Server-side encryption protects data at rest.
The following settings apply only to the new folder object and not to the objects contained within it.
Encryption key type Info
Amazon S3-managed keys (SSE-S3)
AWS Key Management Service key (SSE-KMS)
Cancel
Create folder
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
AWS Marketplace for S3
Feedback
Language
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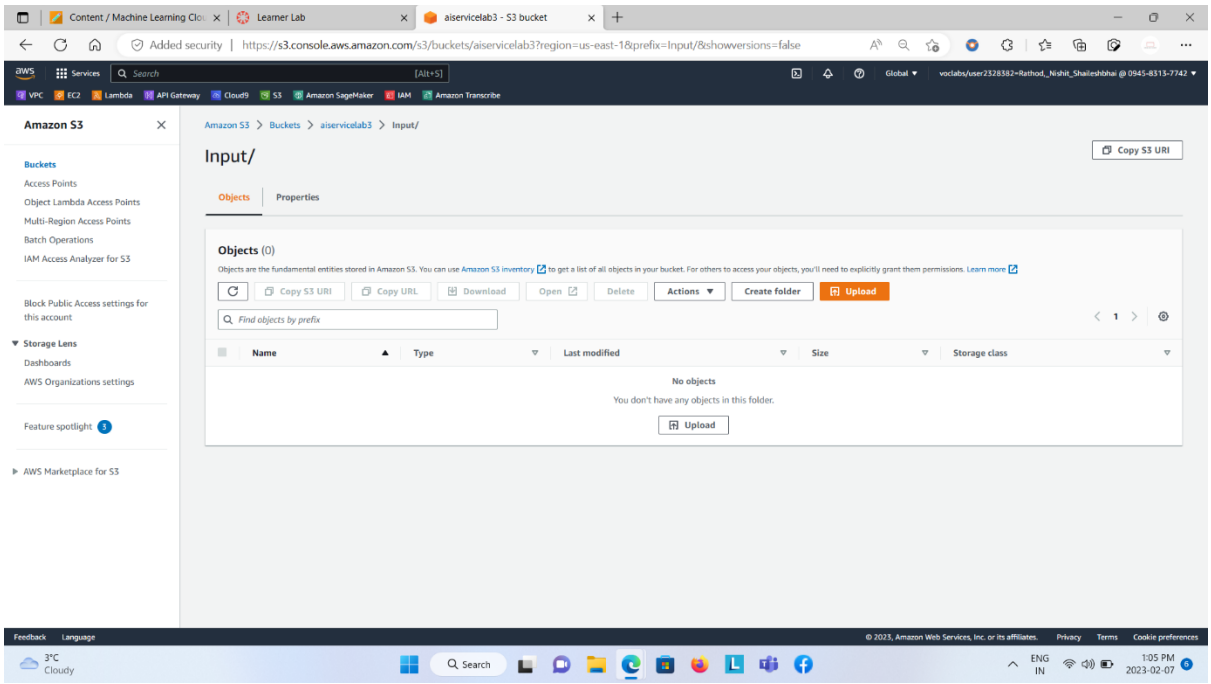
Privacy
Terms
Cookie preferences
3°C
Cloudy
Search
ENG
IN
1:05 PM
2023-02-07


Content / Machine Learning Clo
Learner Lab
aiservicelab3 - S3 bucket
Added security | https://s3.console.aws.amazon.com/s3/buckets/aiservicelab3?region=us-east-1&prefix=Input/&showversions=false
Amazon S3
Amazon S3 > Buckets > aiservicelab3 > Input/
Input/
Copy S3 URI
Objects
Properties
Objects (0)
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
Copy S3 URI
Copy URL
Download
Open
Delete
Actions
Create folder
Upload
Find objects by prefix
Name
Type
Last modified
Size
Storage class
No objects
You don't have any objects in this folder.
Upload
Buckets
Access Points
Object Lambda Access Points
Multi-Region Access Points
Batch Operations
IAM Access Analyzer for S3
Block Public Access settings for this account
Storage Lens
Dashboards
AWS Organizations settings
Feature spotlight
AWS Marketplace for S3
Feedback
Language
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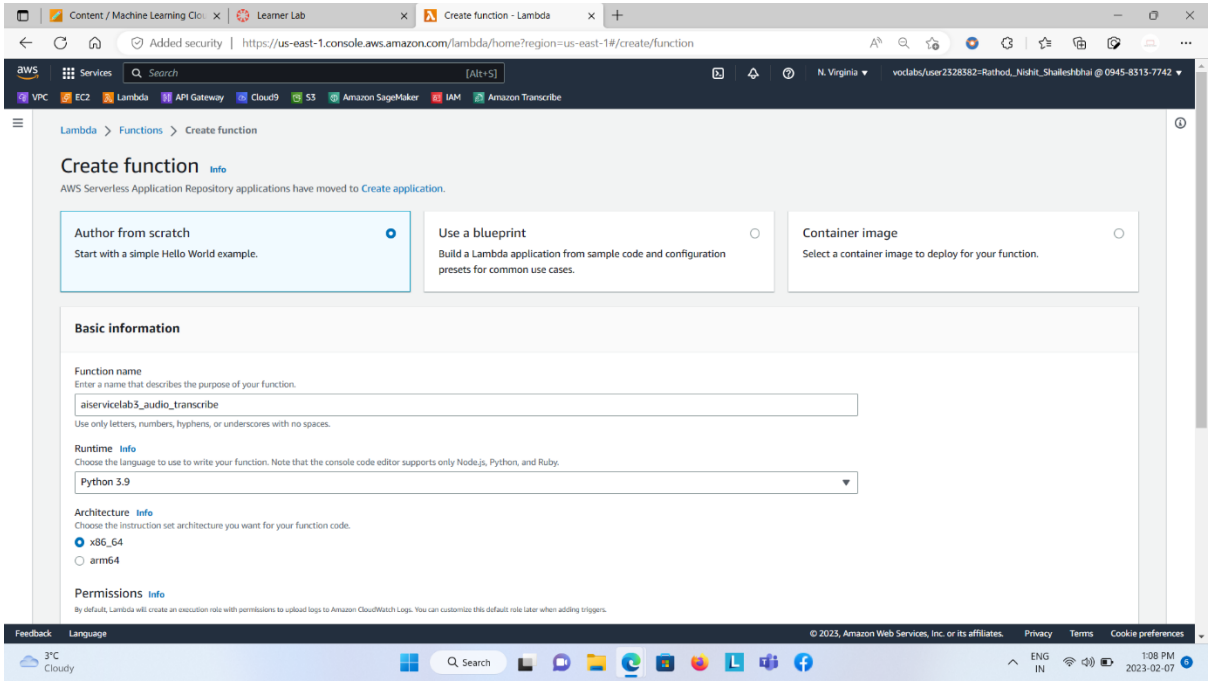
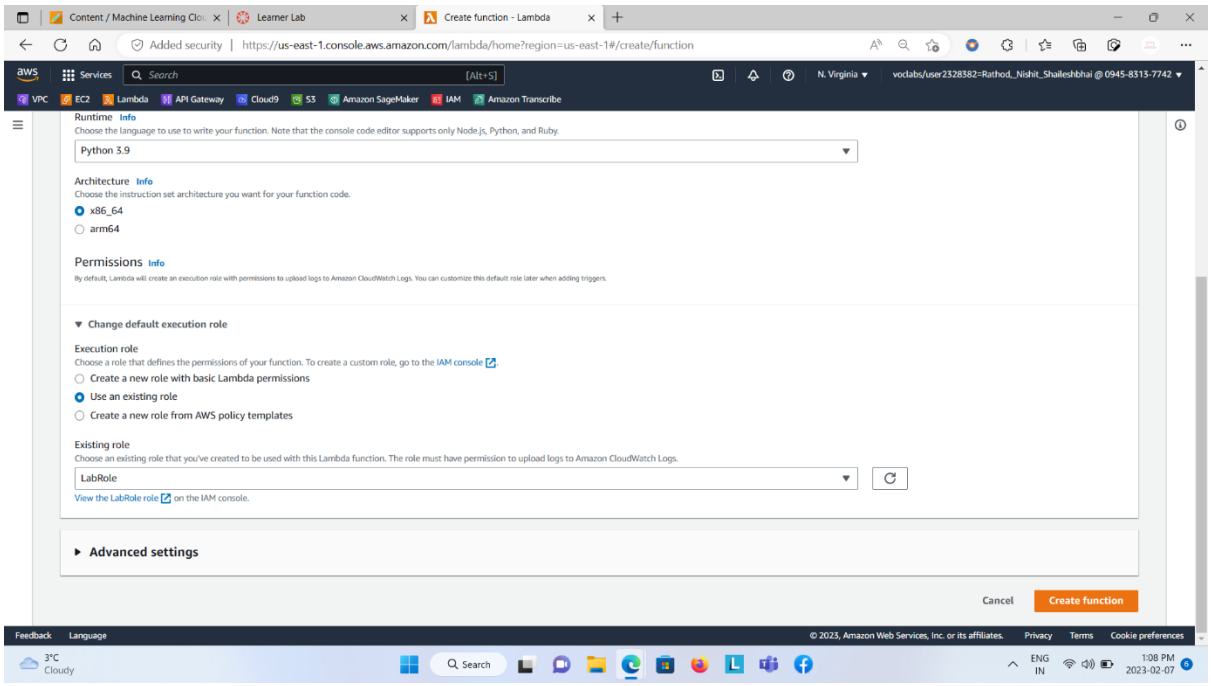
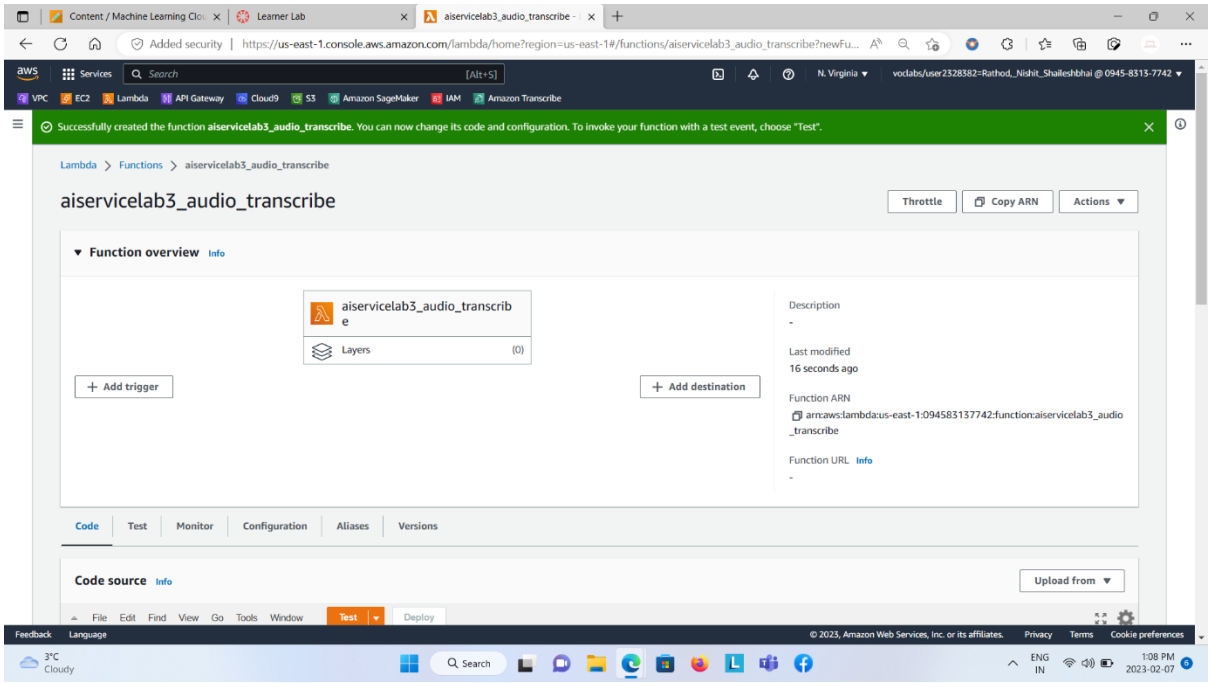
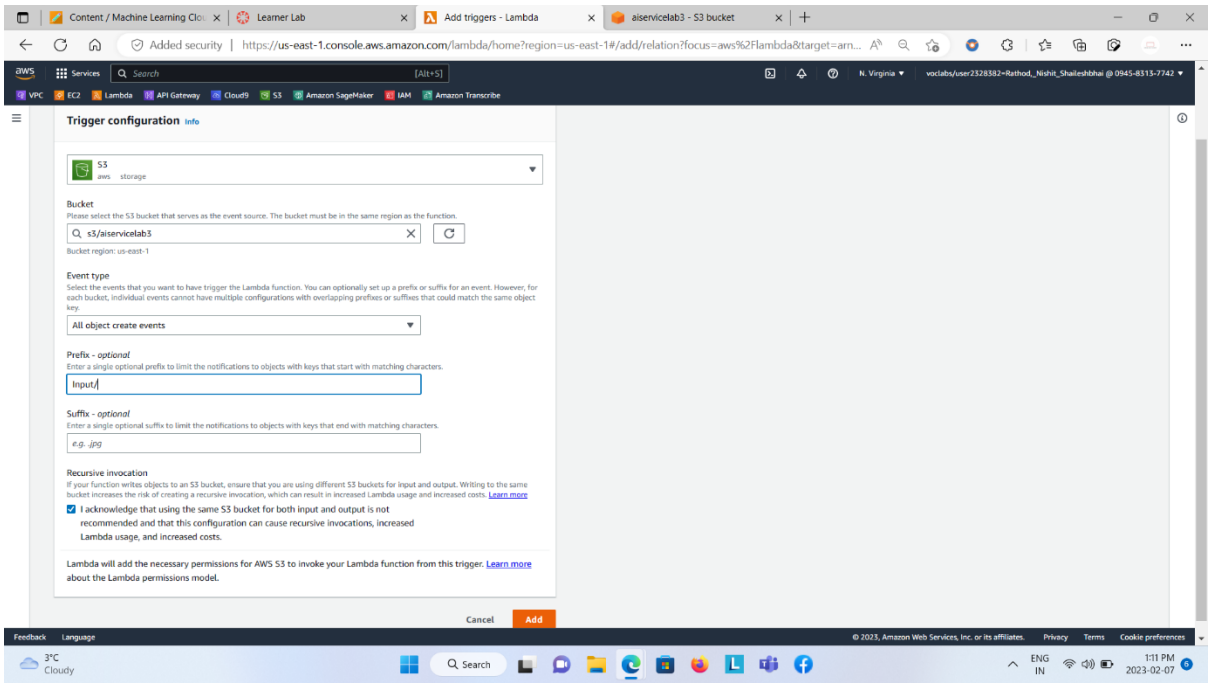
Privacy
Terms
Cookie preferences
3°C
Cloudy
Search
ENG
IN
1:05 PM
2023-02-07

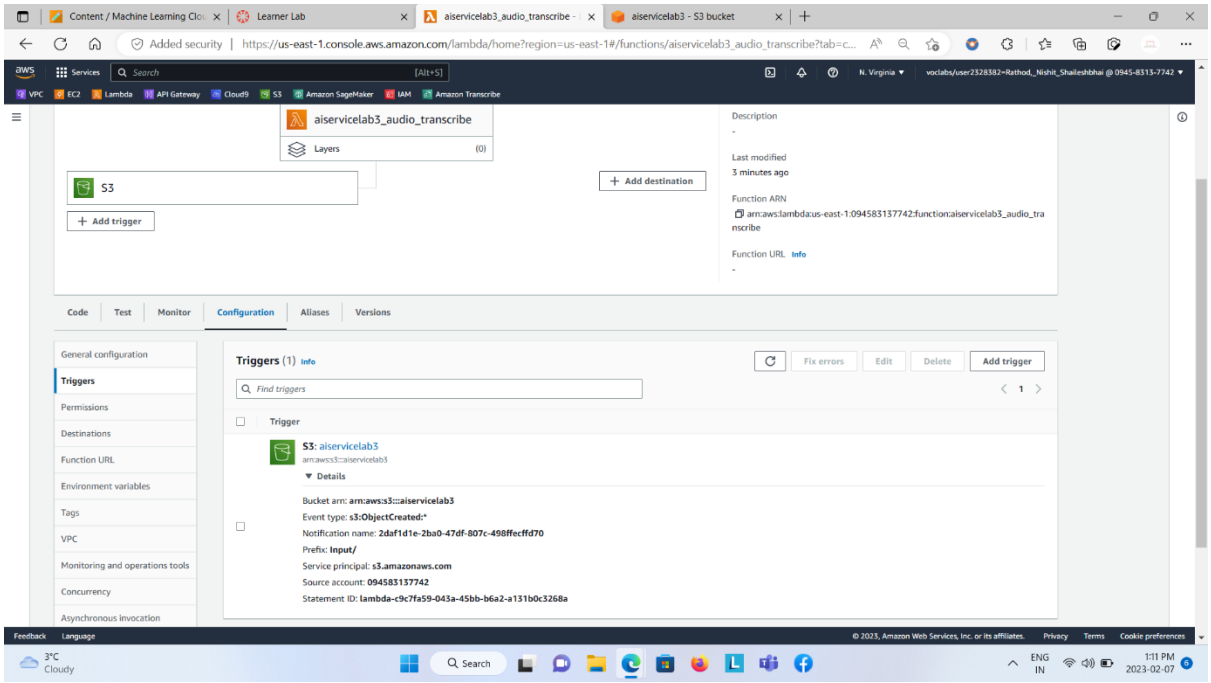
Step 2: Create Lambda Function One and add S3 Trigger to it.



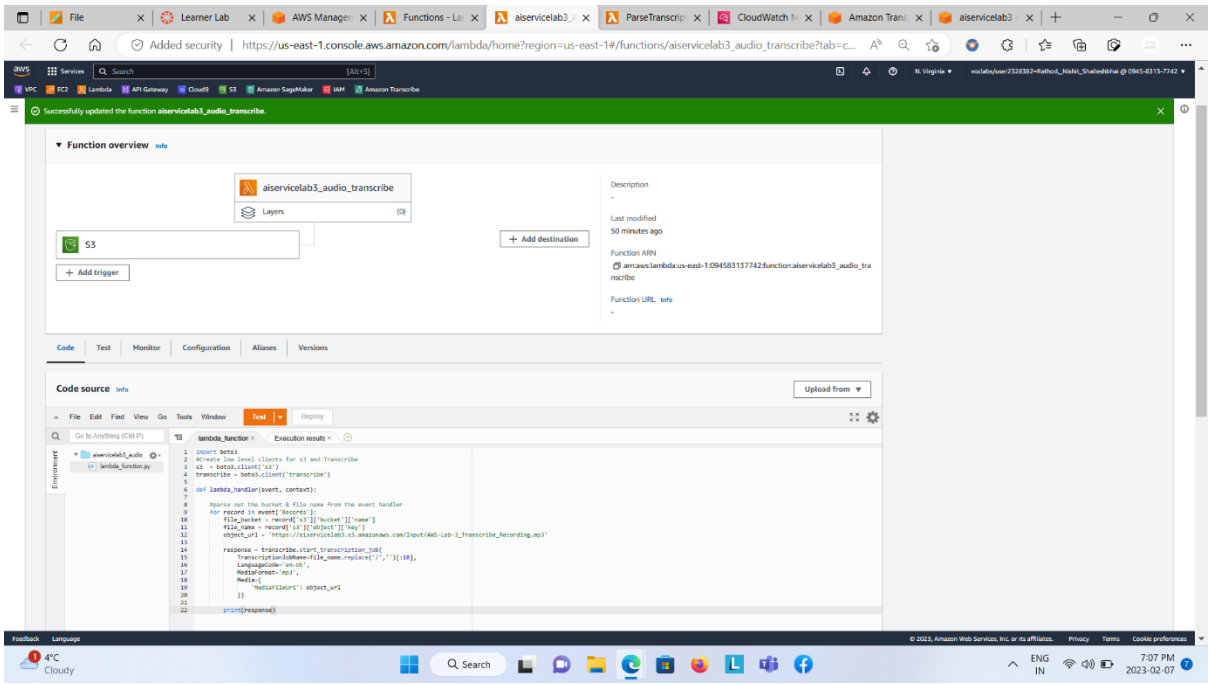



Content / Machine Learning Clo
Learner Lab
aiservicelab3_audio_transcribe -
Added security | https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/aiservicelab3_audio_transcribe?newFu...
Services
Search
[Alt+S]
N. Virginia
voclabs/user2328382=Rathod,_Nishit_Shaileshbhai @ 0945-8313-7742
VPC
EC2
Lambda
API Gateway
Cloud9
S3
Amazon SageMaker
IAM
Amazon Transcribe
Successfully created the function aiservicelab3_audio_transcribe. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
Lambda > Functions > aiservicelab3_audio_transcribe
aiservicelab3_audio_transcribe
Throttle
Copy ARN
Actions
Function overview Info
aiservicelab3_audio_transcrib
e
Layers
(0)
+ Add trigger
+ Add destination
Description
-
Last modified
16 seconds ago
Function ARN
arn:aws:lambda:us-east-1:094583137742:function:aiservicelab3_audio
_transcribe
Function URL Info
-
Code
Test
Monitor
Configuration
Aliases
Versions
Code source Info
Upload from
File
Edit
Find
View
Go
Tools
Window
Test
Deploy
Feedback
Language
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
3°C
Cloudy
Search
ENG
IN
1:08 PM
2023-02-07

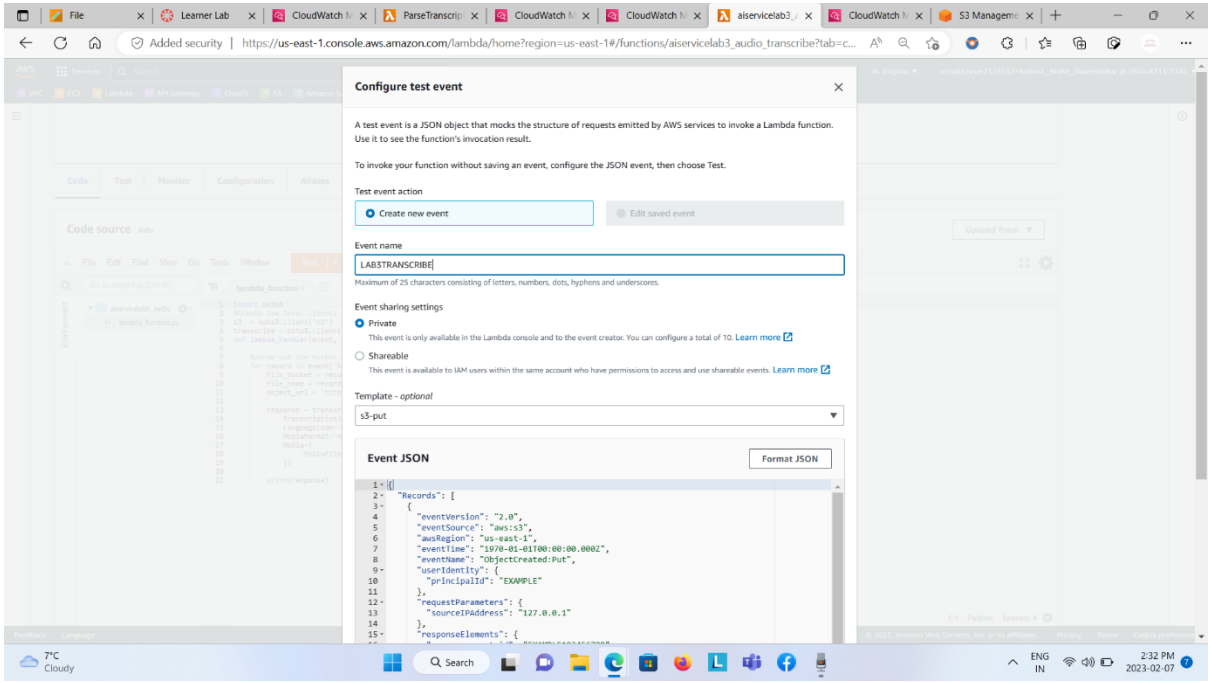

Content / Machine Learning Clo
Learner Lab
Add triggers - Lambda
aiservicelab3 - S3 bucket
Added security | https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/add/relation?focus=aws%2Flambda&target=arn...
Services
Search
[Alt+S]
N. Virginia
voclabs/user2328382=Rathod,_Nishit_Shaileshbhai @ 0945-8313-7742
VPC
EC2
Lambda
API Gateway
Cloud9
S3
Amazon SageMaker
IAM
Amazon Transcribe
Trigger configuration Info
S3
aws
storage
Bucket
Please select the S3 bucket that serves as the event source. The bucket must be in the same region as the function.
s3/aiservicelab3
Bucket region: us-east-1
Event type
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
Prefix - optional
Enter a single optional prefix to limit the notifications to objects with keys that start with matching characters.
Input/
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
Feedback
Language
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences
3°C
Cloudy
Search
ENG
IN
1:11 PM
2023-02-07



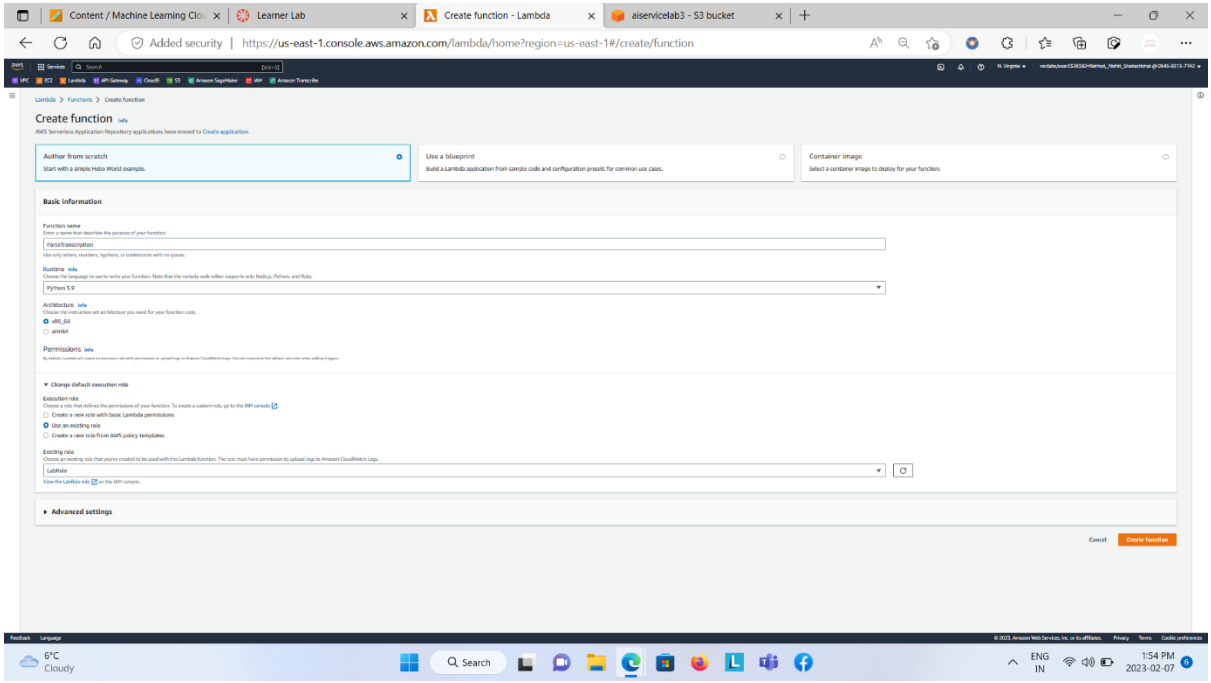
Write the code into it.

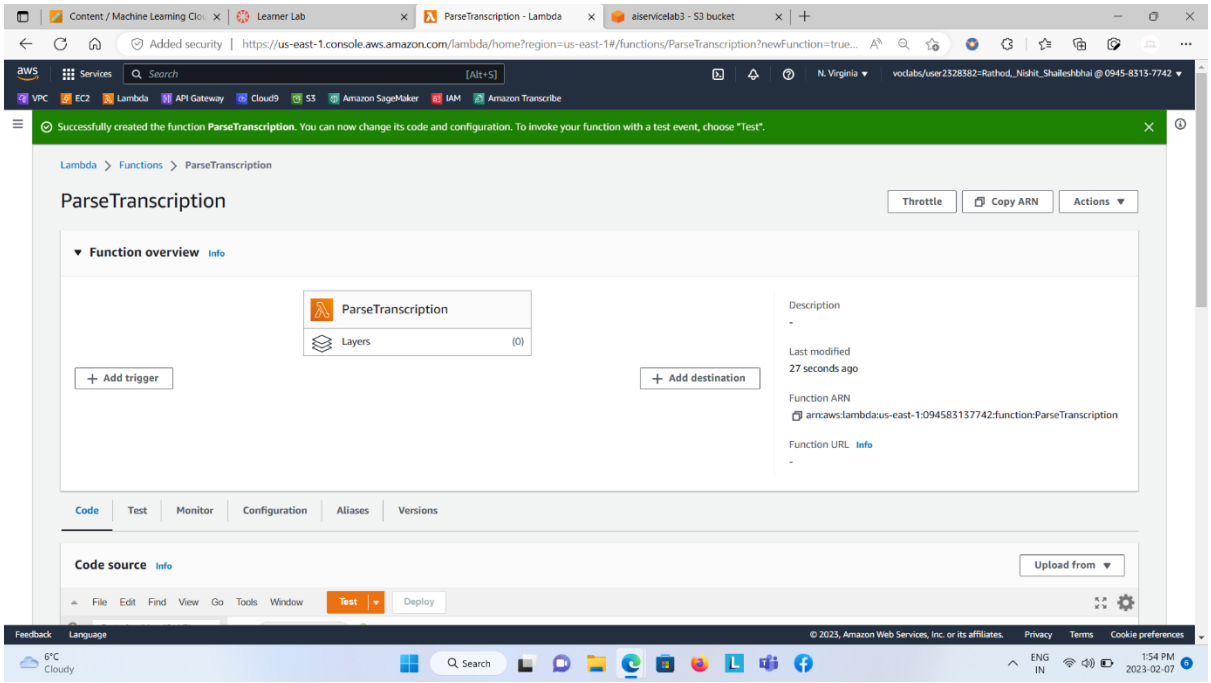


Step 3: From Configure Test Event, create new event and attach s3-put template.



Step 4: Create Lambda Function Two and add CloudWatch Trigger to it.




Content / Machine Learning Clo
Learner Lab
ParseTranscription - Lambda
aiservicelab3 - S3 bucket
https://us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/ParseTranscription?newFunction=true...
Services
Search
[Alt+S]
N. Virginia
voclabs/user2328382=Rathod,_Nishit_Shaileshbhai @ 0945-8313-7742
VPC
EC2
Lambda
API Gateway
Cloud9
S3
Amazon SageMaker
IAM
Amazon Transcribe
Successfully created the function ParseTranscription. You can now change its code and configuration. To invoke your function with a test event, choose "Test".
Lambda > Functions > ParseTranscription
ParseTranscription
Throttle
Copy ARN
Actions
Function overview Info
ParseTranscription
Layers
(0)
+ Add trigger
+ Add destination
Description
-
Last modified
27 seconds ago
Function ARN
arn:aws:lambda:us-east-1:094583137742:function:ParseTranscription
Function URL Info
-
Code
Test
Monitor
Configuration
Aliases
Versions
Code source Info
Upload from
File
Edit
Find
View
Go
Tools
Window
Test
Deploy
Feedback
Language
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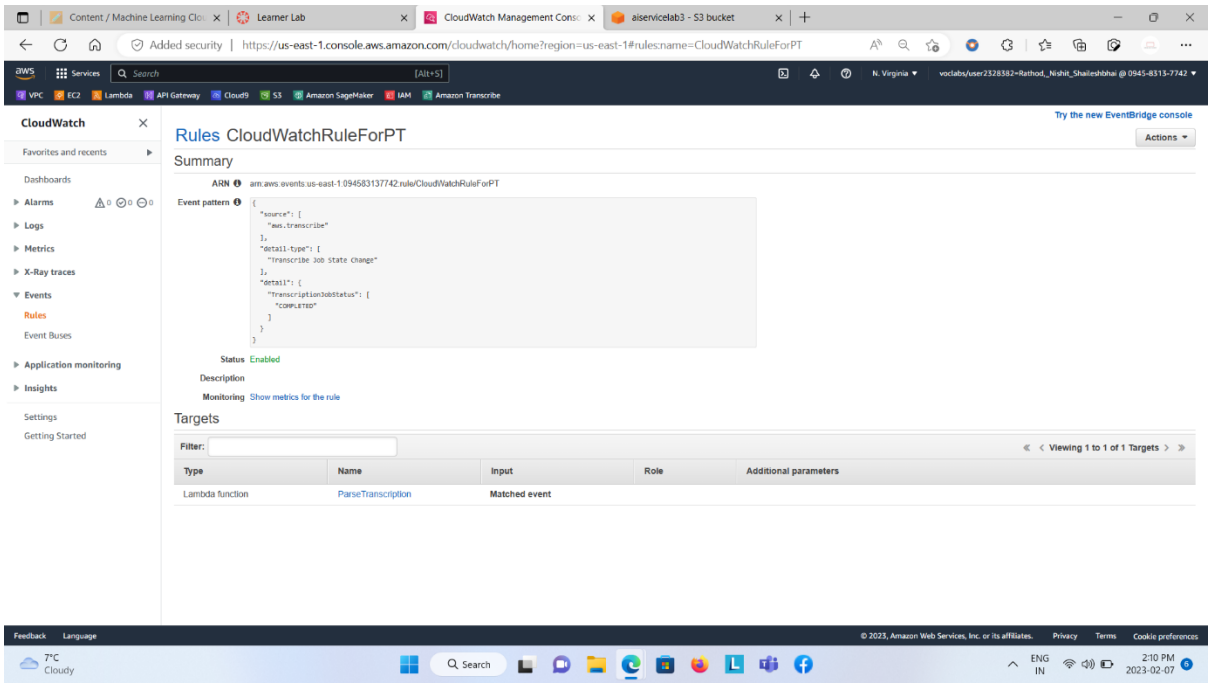
Privacy
Terms
Cookie preferences
6°C
Cloudy
Search
ENG
IN
1:54 PM
2023-02-07


Content / Machine Learning Clo
Learner Lab
CloudWatch Management Cons
aiservicelab3 - S3 bucket
https://us-east-1.console.aws.amazon.com/cloudwatch/home?region=us-east-1#rules:name=CloudWatchRuleForPT
Services
Search
[Alt+S]
N. Virginia
voclabs/user2328382=Rathod,_Nishit_Shaileshbhai @ 0945-8313-7742
VPC
EC2
Lambda
API Gateway
Cloud9
S3
Amazon SageMaker
IAM
Amazon Transcribe
CloudWatch
Favorites and recents
Dashboards
Alarms
Logs
Metrics
X-Ray traces
Events
Rules
Event Buses
Application monitoring
Insights
Settings
Getting Started
Try the new EventBridge console
Rules CloudWatchRuleForPT
Actions
Summary
ARN
arn:aws:events:us-east-1:094583137742:rule/CloudWatchRuleForPT
Event pattern
{
"source": [
"aws.transcribe"
],
"detail-type": [
"Transcribe Job State Change"
],
"detail": {
"TranscriptionJobStatus": [
"COMPLETED"
]
}
}
Status
Enabled
Description
Monitoring
Show metrics for the rule
Targets
Filter:
Viewing 1 to 1 of 1 Targets
Type
Name
Input
Role
Additional parameters
Lambda function
ParseTranscription
Matched event
Feedback
Language
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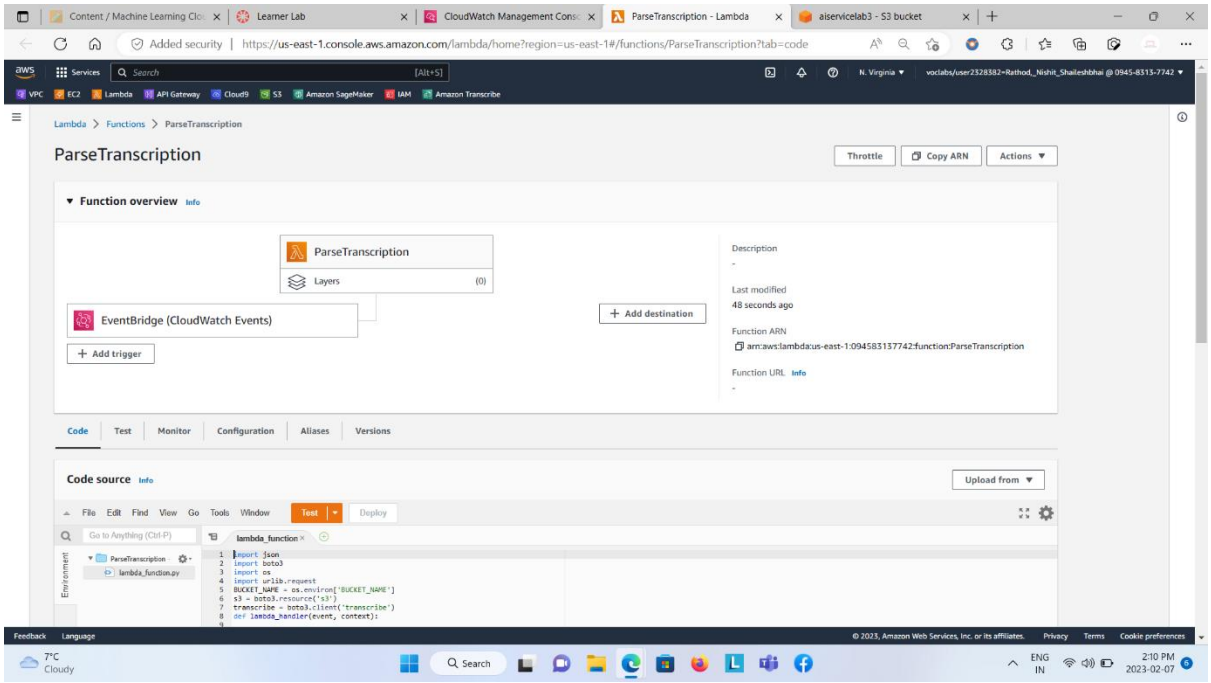
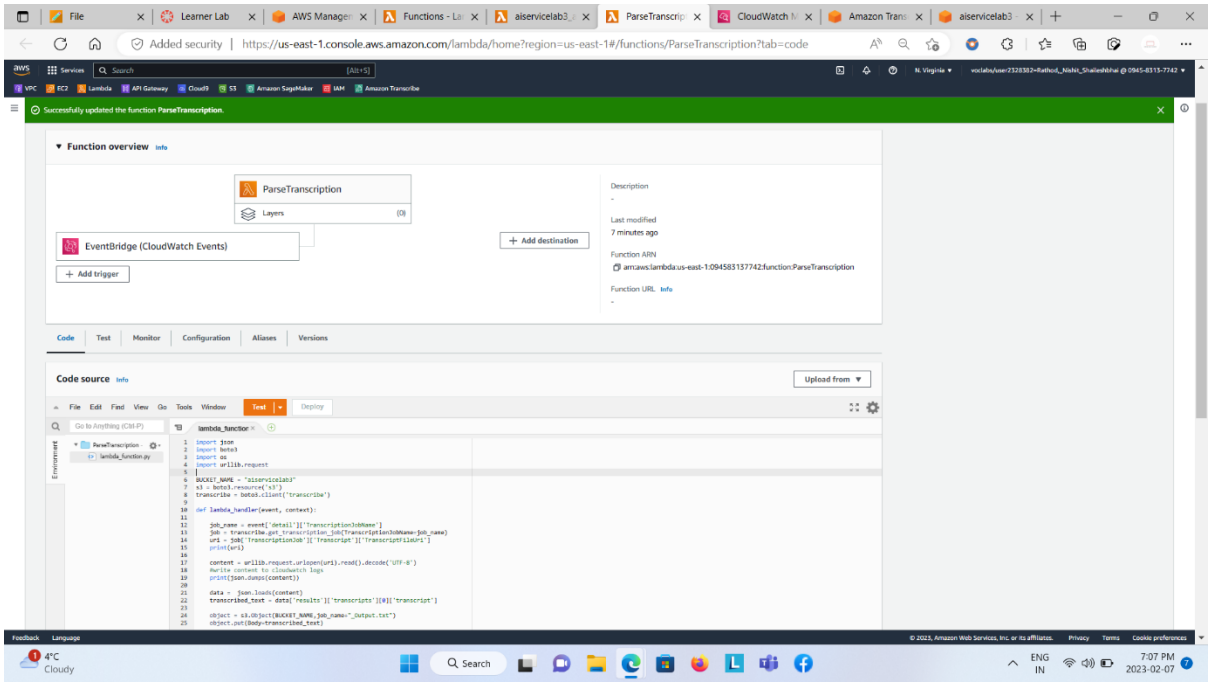
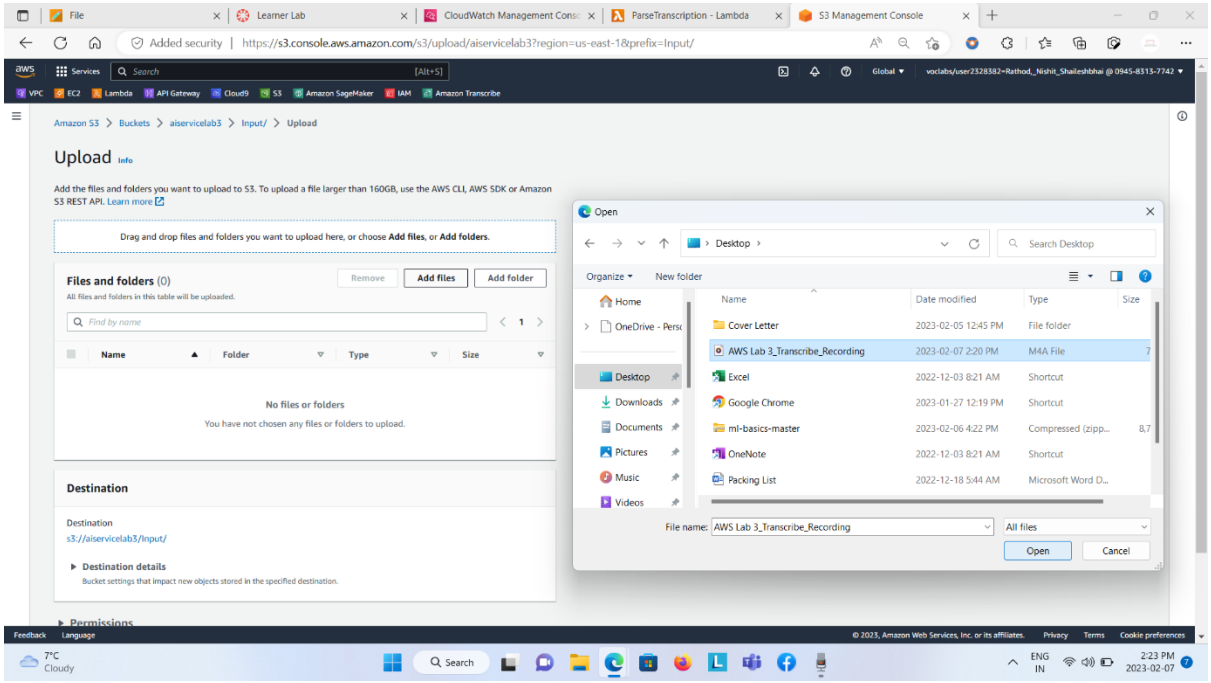
Privacy
Terms
Cookie preferences
7°C
Cloudy
Search
ENG
IN
2:10 PM
2023-02-07

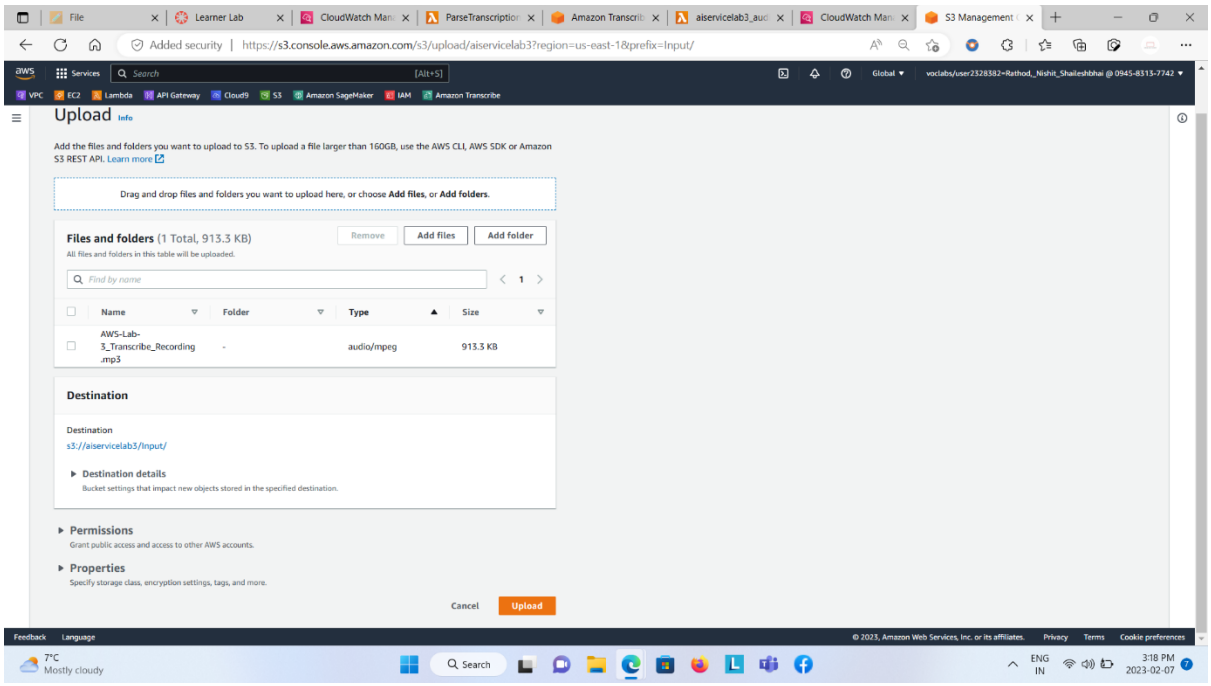


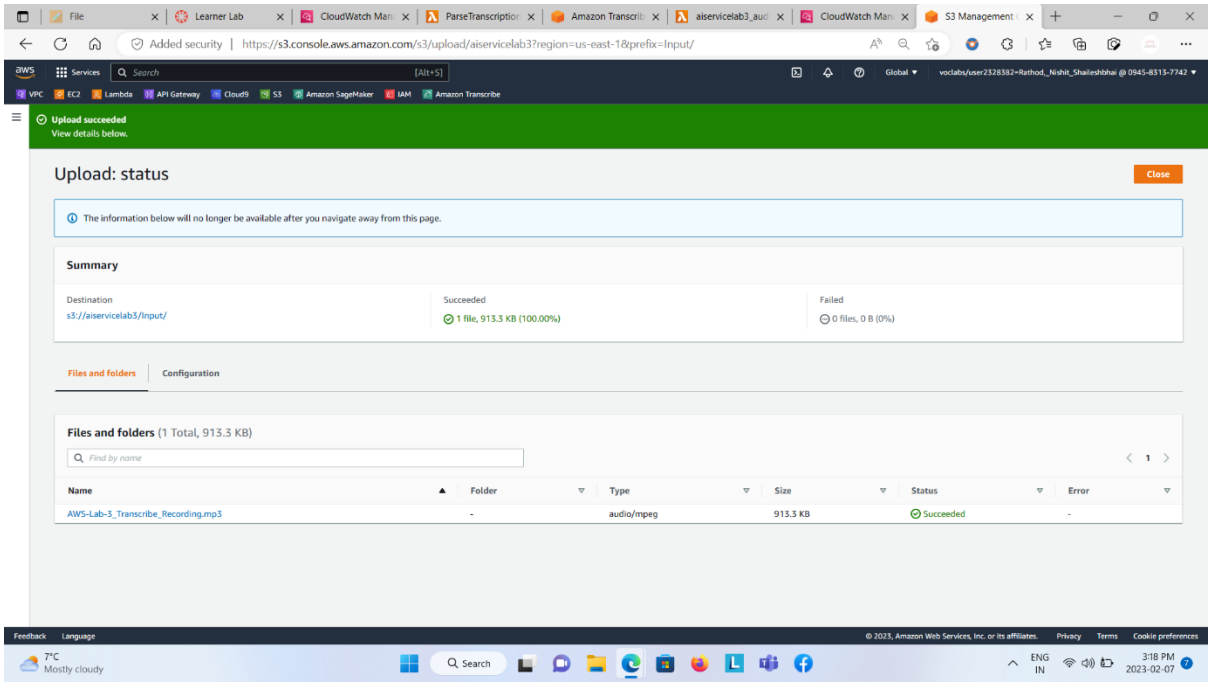
Write the code into it.



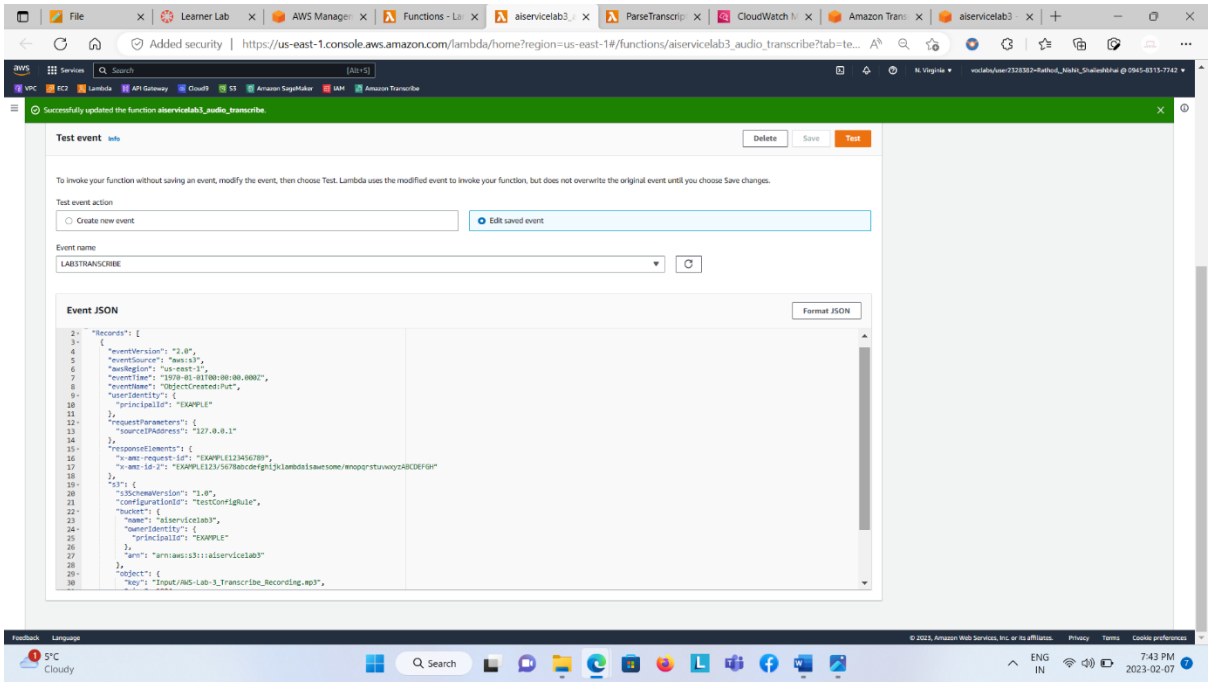
Step 5: Upload .mp3 file into the S3 bucket, inside the created folder.



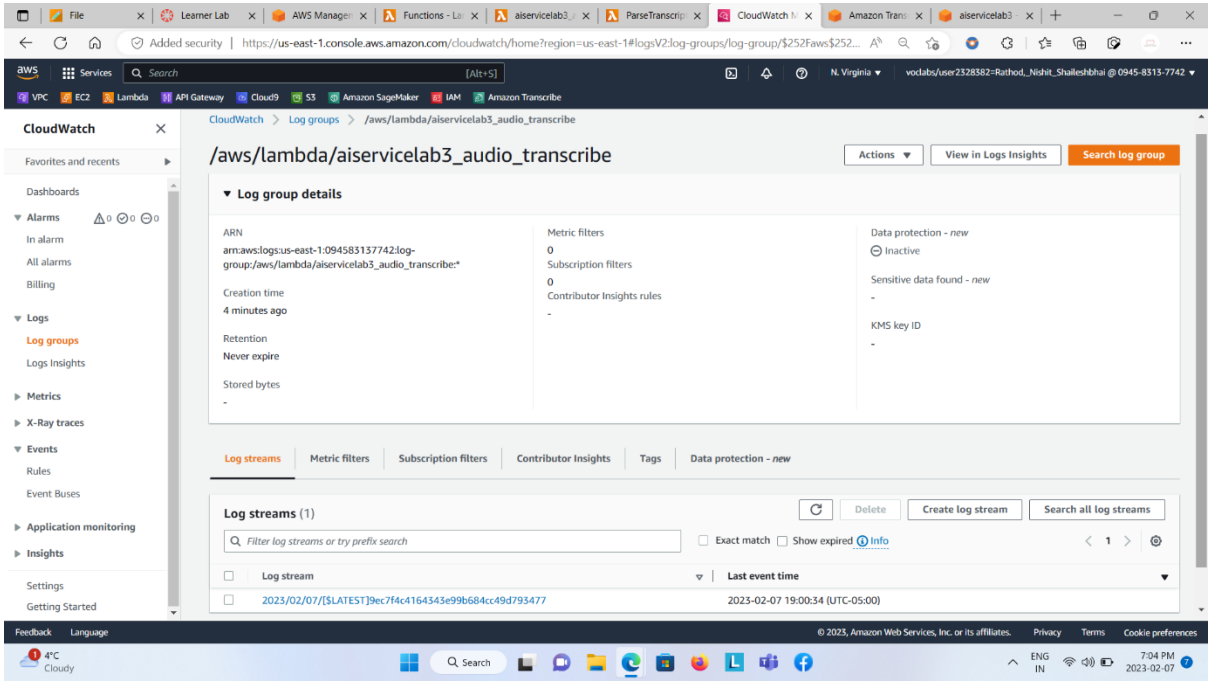


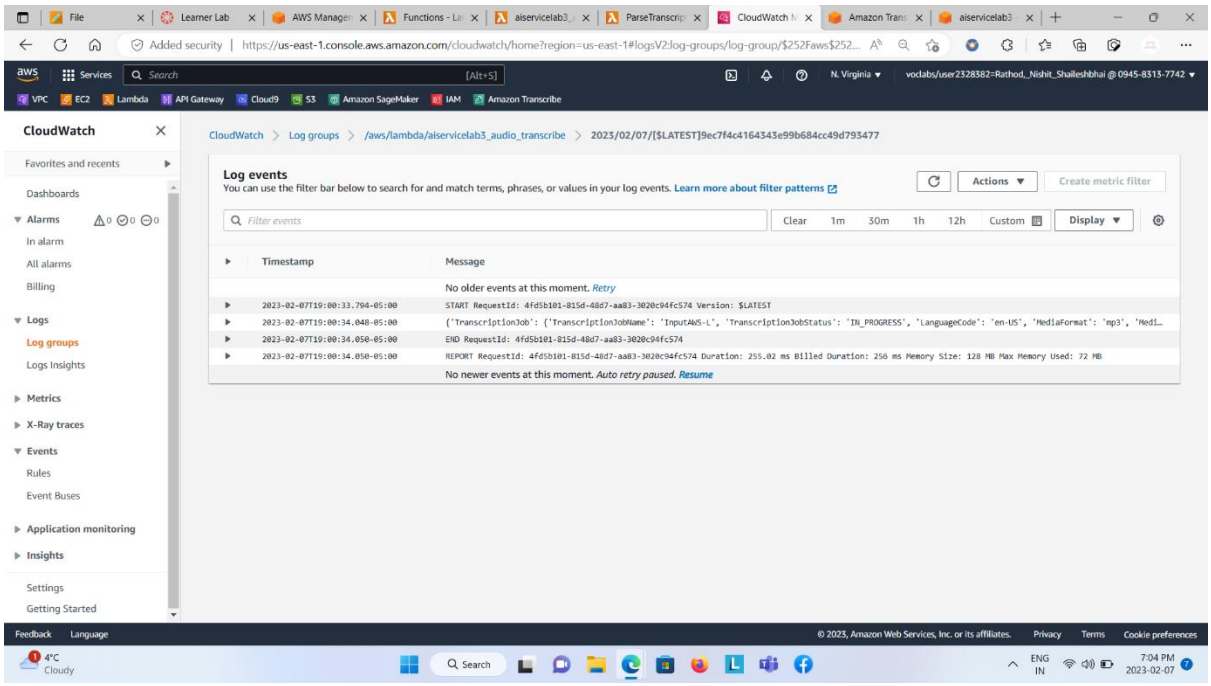


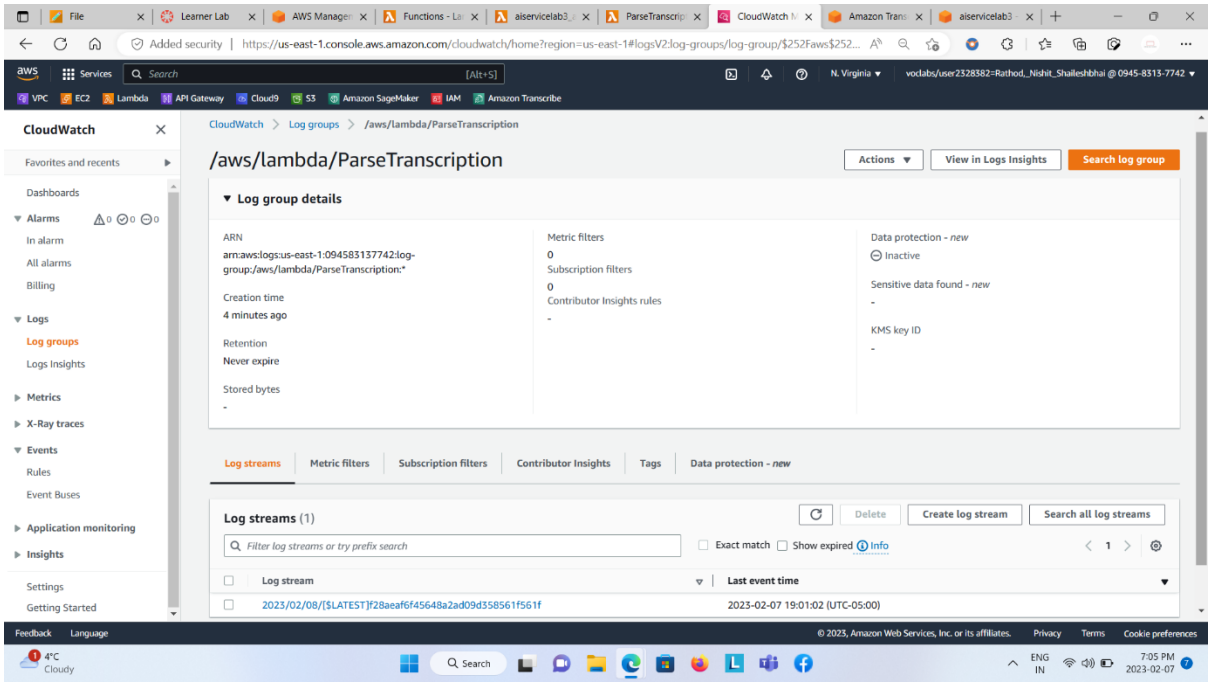
Edit the created event.

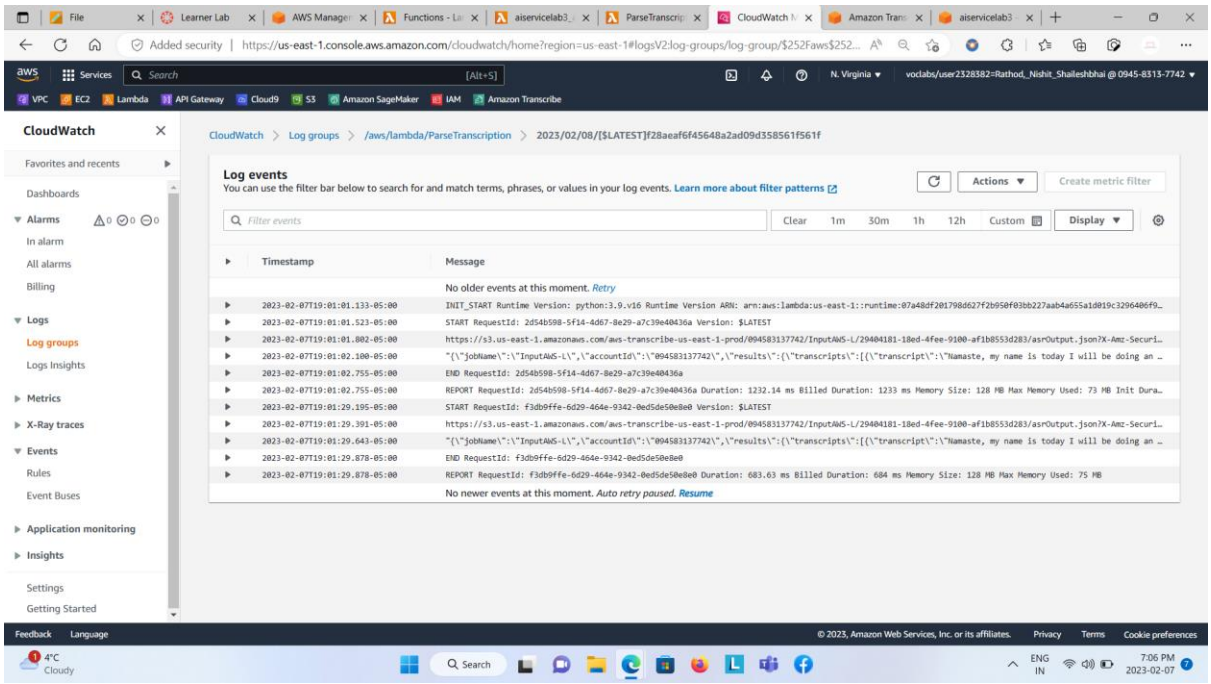


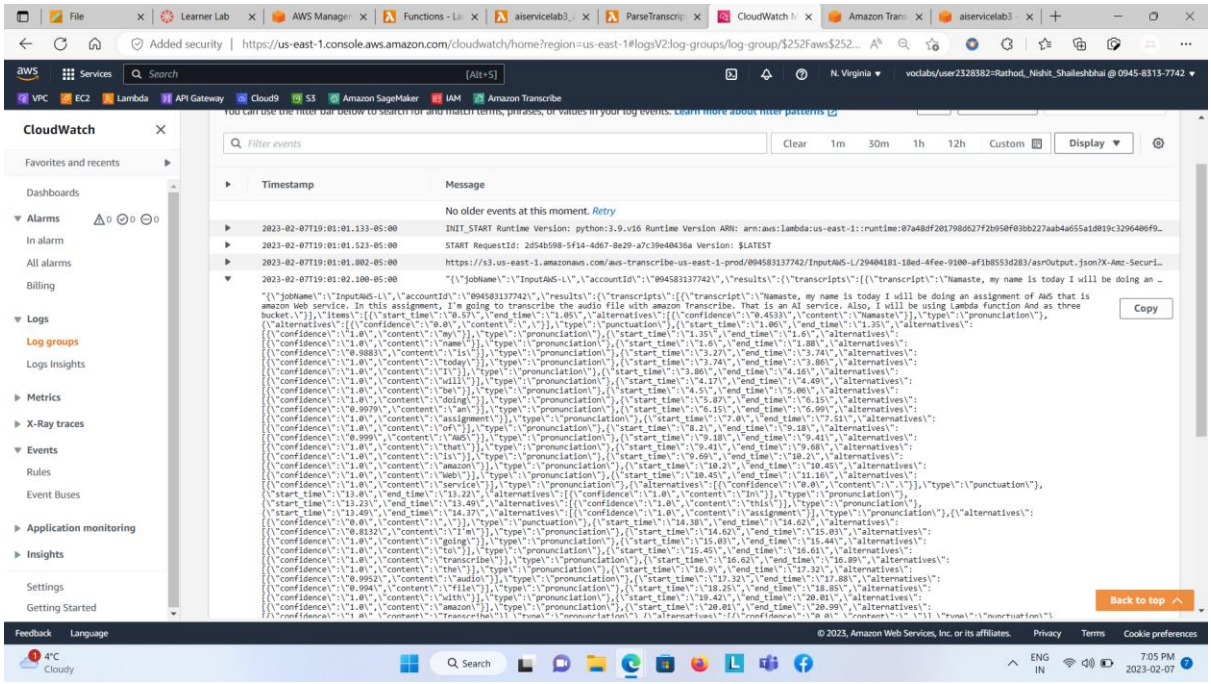
Step 6: Open CloudWatch Logs and see the desired transcribe result.



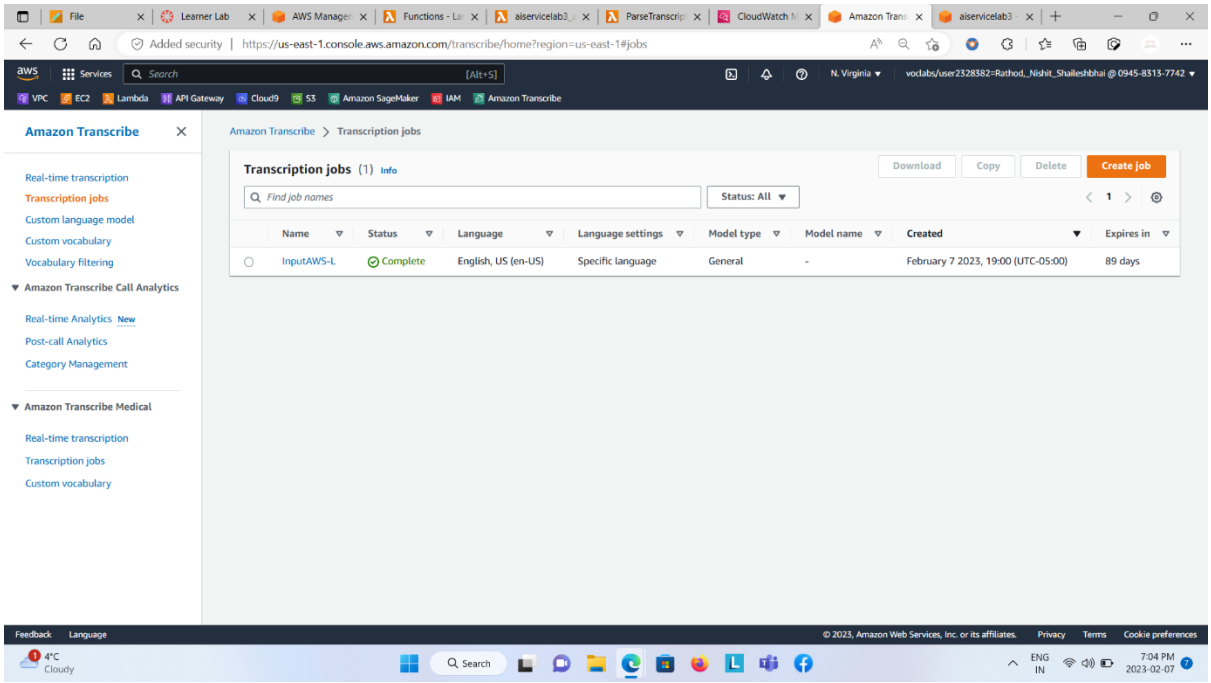


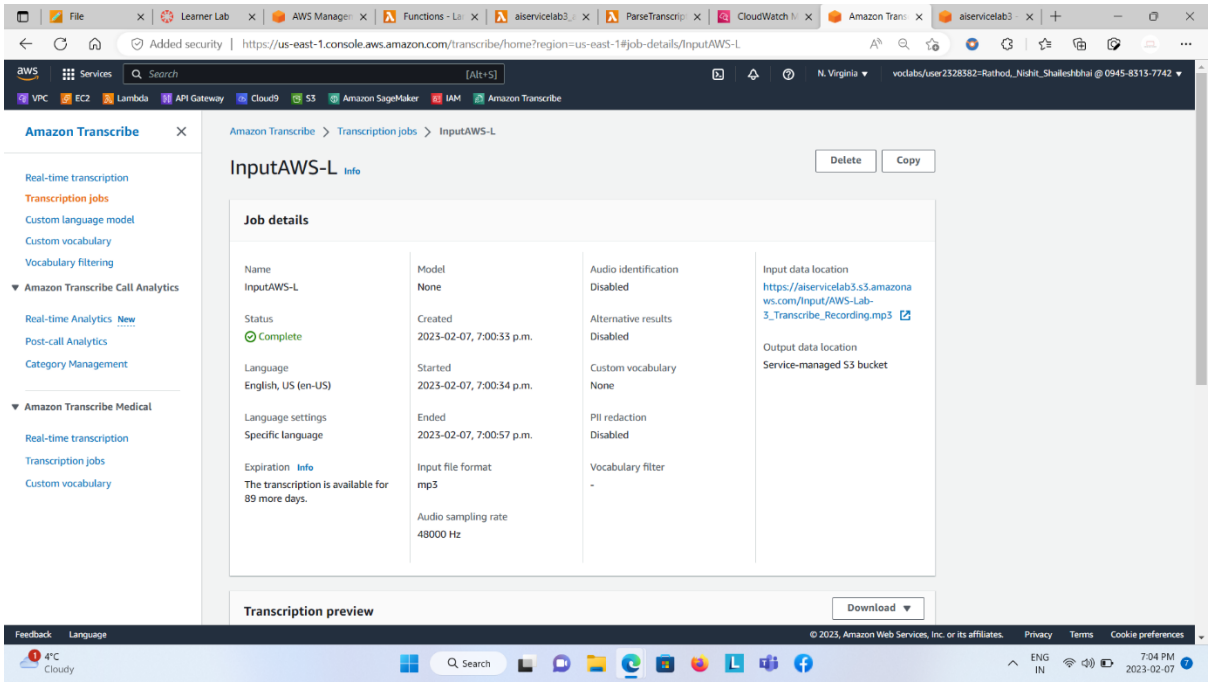

CloudWatch
/aws/lambda/ParseTranscription
Actions
View in Logs Insights
Search log group
Log group details
ARN
arn:aws:logs:us-east-1:094583137742:log-group:/aws/lambda/ParseTranscription:*
Creation time
4 minutes ago
Retention
Never expire
Stored bytes
-
Metric filters
0
Subscription filters
0
Contributor Insights rules
-
Data protection - new
Inactive
Sensitive data found - new
-
KMS key ID
-
Log streams
Metric filters
Subscription filters
Contributor Insights
Tags
Data protection - new
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
2023/02/08/[$LATEST]f28aeaf6f45648a2ad09d358561f561f
2023-02-07 19:01:02 (UTC-05:00)

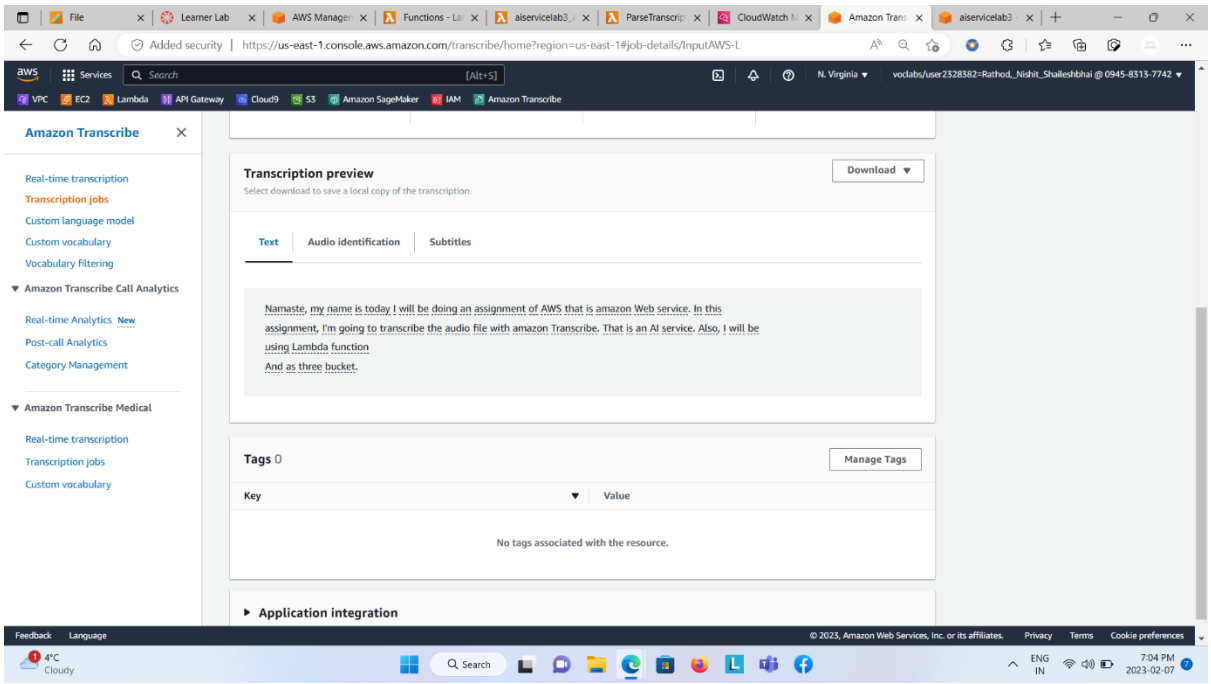

CloudWatch
/aws/lambda/ParseTranscription
2023/02/08/[$LATEST]f28aeaf6f45648a2ad09d358561f561f
Log events
You can use the filter bar below to search for and match terms, phrases, or values in your log events.
Learn more about filter patterns
Actions
Create metric filter
Filter events
Clear
1m
30m
1h
12h
Custom
Display
Timestamp
Message
No older events at this moment.
Retry
2023-02-07T19:01:01.133-05:00 INIT_START Runtime Version: python:3.9.v16 Runtime Version ARN: arn:aws:lambda:us-east-1::runtime:07a48df201798d627f2b950f03bb227aab4a655a1d019c329640 6f9…
2023-02-07T19:01:01.523-05:00 START RequestId: 2d54b598-5f14-4d67-8e29-a7c39e40436a Version: $LATEST
2023-02-07T19:01:01.802-05:00 https://s3.us-east-1.amazonaws.com/aws-transcribe-us-east-1-prod/094583137742/InputAWS-L/29404181-18ed-4fee-9100-af1b8553d283/asrOutput.json?X-Amz-Securi…
2023-02-07T19:01:02.100-05:00 "{\"jobName\":\"InputAWS-L\",\"accountId\":\"094583137742\",\"results\":{\"transcripts\":[{\"transcript\":\"Namaste, my name is today I will be doing an …
2023-02-07T19:01:02.755-05:00 END RequestId: 2d54b598-5f14-4d67-8e29-a7c39e40436a
2023-02-07T19:01:02.755-05:00 REPORT RequestId: 2d54b598-5f14-4d67-8e29-a7c39e40436a Duration: 1232.14 ms Billed Duration: 1233 ms Memory Size: 128 MB Max Memory Used: 73 MB Init Dura…
2023-02-07T19:01:29.195-05:00 START RequestId: f3db9ffe-6d29-464e-9342-0ed5de50e8e0 Version: $LATEST
2023-02-07T19:01:29.391-05:00 https://s3.us-east-1.amazonaws.com/aws-transcribe-us-east-1-prod/094583137742/InputAWS-L/29404181-18ed-4fee-9100-af1b8553d283/asrOutput.json?X-Amz-Securi…
2023-02-07T19:01:29.643-05:00 "{\"jobName\":\"InputAWS-L\",\"accountId\":\"094583137742\",\"results\":{\"transcripts\":[{\"transcript\":\"Namaste, my name is today I will be doing an …
2023-02-07T19:01:29.878-05:00 END RequestId: f3db9ffe-6d29-464e-9342-0ed5de50e8e0
2023-02-07T19:01:29.878-05:00 REPORT RequestId: f3db9ffe-6d29-464e-9342-0ed5de50e8e0 Duration: 683.63 ms Billed Duration: 684 ms Memory Size: 128 MB Max Memory Used: 75 MB
No newer events at this moment. Auto retry paused. Resume



Step 7: Open Amazon Transcribe and Transcription job would be created with defined name.




Amazon Transcribe
Real-time transcription
Transcription jobs
Custom language model
Custom vocabulary
Vocabulary filtering
Amazon Transcribe Call Analytics
Real-time Analytics New
Post-call Analytics
Category Management
Amazon Transcribe Medical
Real-time transcription
Transcription jobs
Custom vocabulary
Amazon Transcribe > Transcription jobs > InputAWS-L
InputAWS-L Info
Delete
Copy
Job details
Name
InputAWS-L
Status
Complete
Language
English, US (en-US)
Language settings
Specific language
Expiration Info
The transcription is available for 89 more days.
Model
None
Created
2023-02-07, 7:00:33 p.m.
Started
2023-02-07, 7:00:34 p.m.
Ended
2023-02-07, 7:00:57 p.m.
Input file format
mp3
Audio sampling rate
48000 Hz
Audio identification
Disabled
Alternative results
Disabled
Custom vocabulary
None
PII redaction
Disabled
Vocabulary filter
-
Input data location
https://aiservicelab3.s3.amazonaws.com/Input/AWS-Lab-3_Transcribe_Recording.mp3
Output data location
Service-managed S3 bucket
Transcription preview
Download
Feedback
Language
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences


Amazon Transcribe
Real-time transcription
Transcription jobs
Custom language model
Custom vocabulary
Vocabulary filtering
Amazon Transcribe Call Analytics
Real-time Analytics New
Post-call Analytics
Category Management
Amazon Transcribe Medical
Real-time transcription
Transcription jobs
Custom vocabulary
Transcription preview
Select download to save a local copy of the transcription.
Download
Text
Audio identification
Subtitles
Namaste, my name is today I will be doing an assignment of AWS that is amazon Web service. In this assignment, I'm going to transcribe the audio file with amazon Transcribe. That is an AI service. Also, I will be using Lambda function
And as three bucket.
Tags 0
Manage Tags
Key
Value
No tags associated with the resource.
Application integration
Feedback
Language
© 2023, Amazon Web Services, Inc. or its affiliates.
Privacy
Terms
Cookie preferences

Step 8: Save theresult in .txt file of the transcript from the Transcription job using lambda function two.