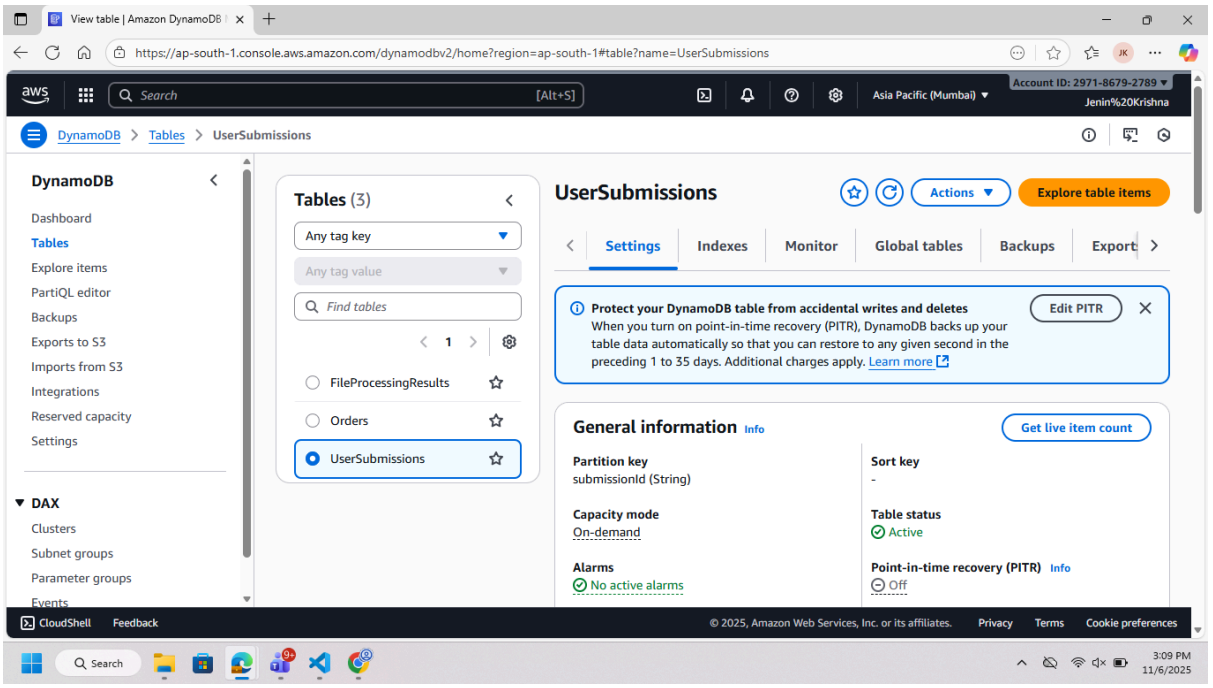
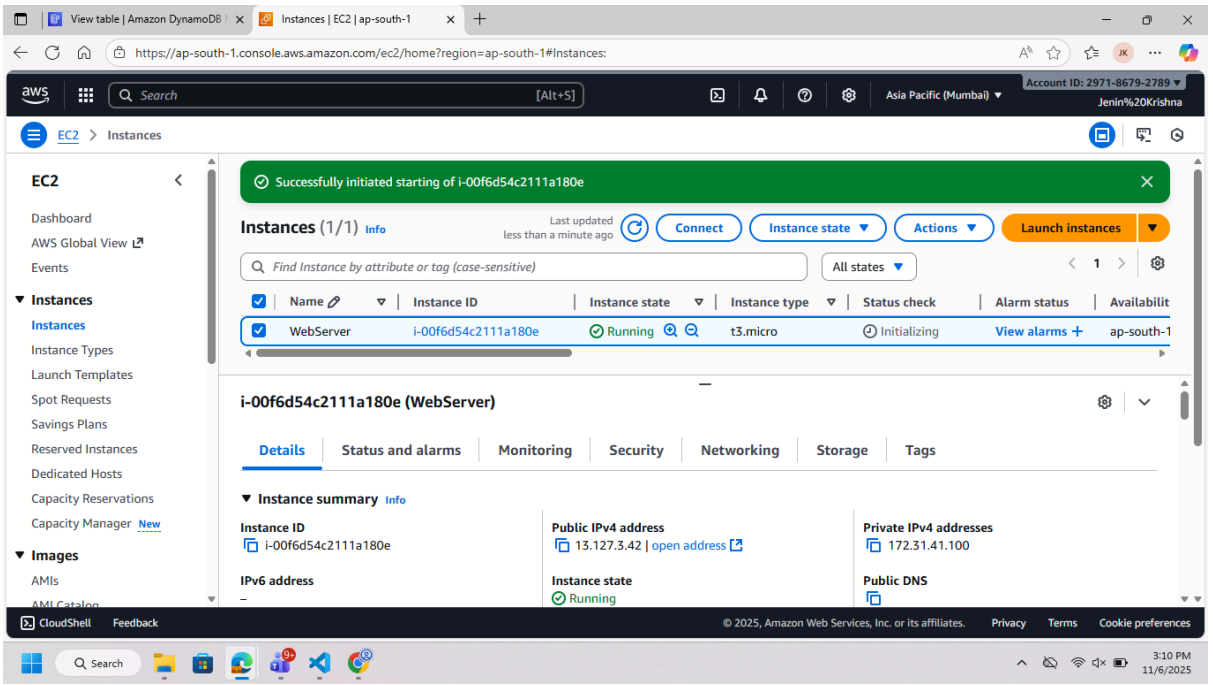
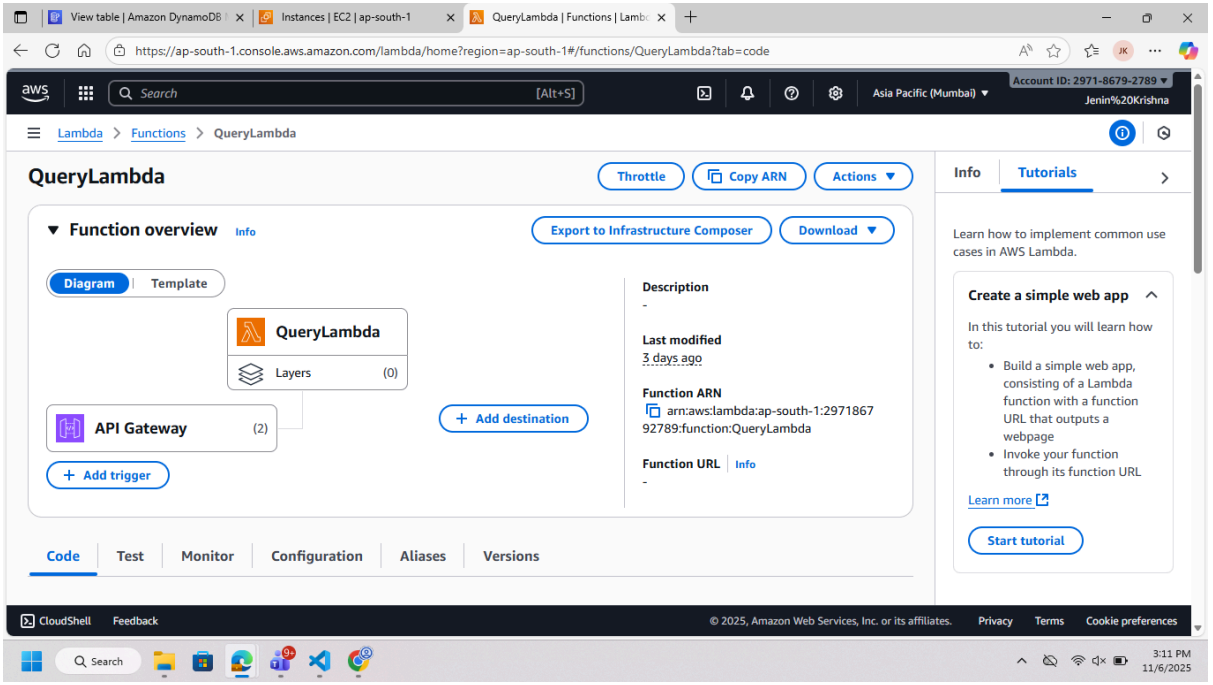
Task - 1

Name: Jenin Krishna K P
Location: Chennai

Serverless Web Application






View table | Amazon DynamoDB
Instances | EC2 | ap-south-1
QueryLambda | Functions | Lamb
https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/QueryLambda?tab=code
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Lambda > Functions > QueryLambda
QueryLambda
Throttle
Copy ARN
Actions
Function overview Info
Export to Infrastructure Composer
Download
Diagram | Template
QueryLambda
Layers (0)
API Gateway (2)
Add destination
Add trigger
Description
-
Last modified
3 days ago
Function ARN
arn:aws:lambda:ap-south-1:297186792789:function:QueryLambda
Function URL Info
-
Code
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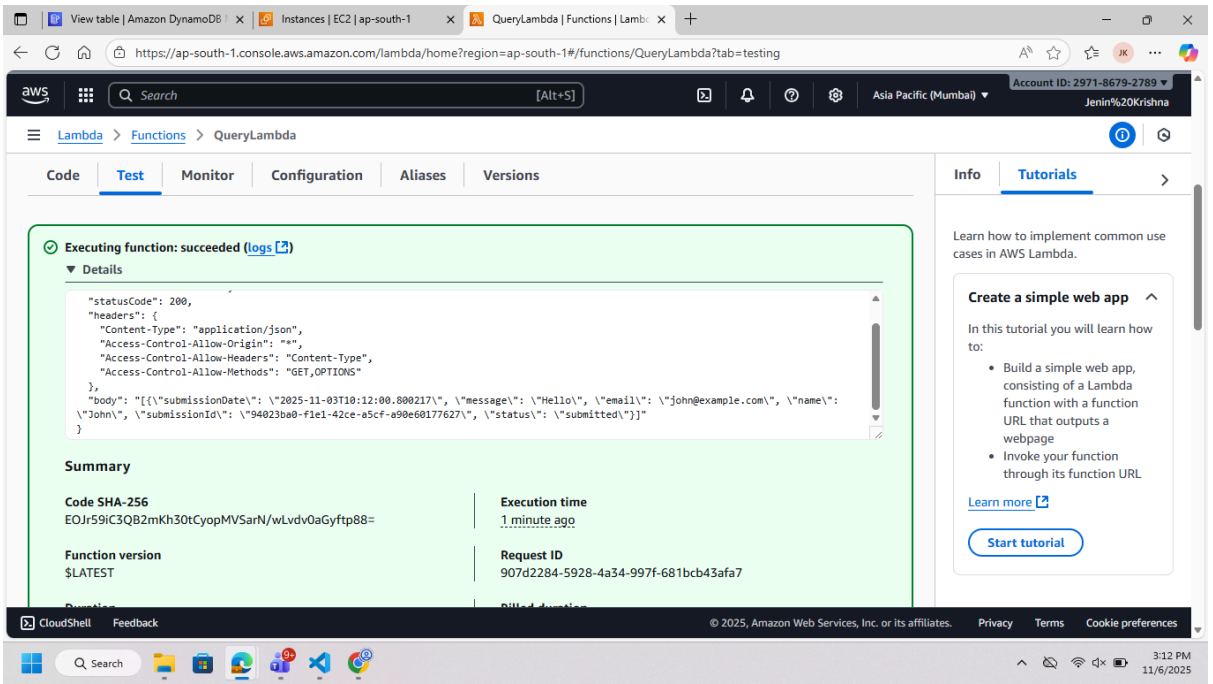
View table | Amazon DynamoDB
Instances | EC2 | ap-south-1
QueryLambda | Functions | Lamb
https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/QueryLambda?tab=testing
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Lambda > Functions > QueryLambda
Code
Test
Monitor
Configuration
Aliases
Versions
Executing function: succeeded (logs)
Details
"statusCode": 200,
"headers": {
"Content-Type": "application/json",
"Access-Control-Allow-Origin": "*",
"Access-Control-Allow-Headers": "Content-Type",
"Access-Control-Allow-Methods": "GET,OPTIONS"
},
"body": "[{\"submissionDate\": \"2025-11-03T10:12:00.800217\", \"message\": \"Hello\", \"email\": \"john@example.com\", \"name\": \"John\", \"submissionId\": \"94023ba0-f1e1-42ce-a5cf-a90e60177627\", \"status\": \"submitted\"}]"
}
Summary
Code SHA-256
EOJr59iC3QB2mKh30tCyopMVSarN/wLvdv0aGyftp88=
Execution time
1 minute ago
Function version
$LATEST
Request ID
907d2284-5928-4a34-997f-681bcb43afa7
Info
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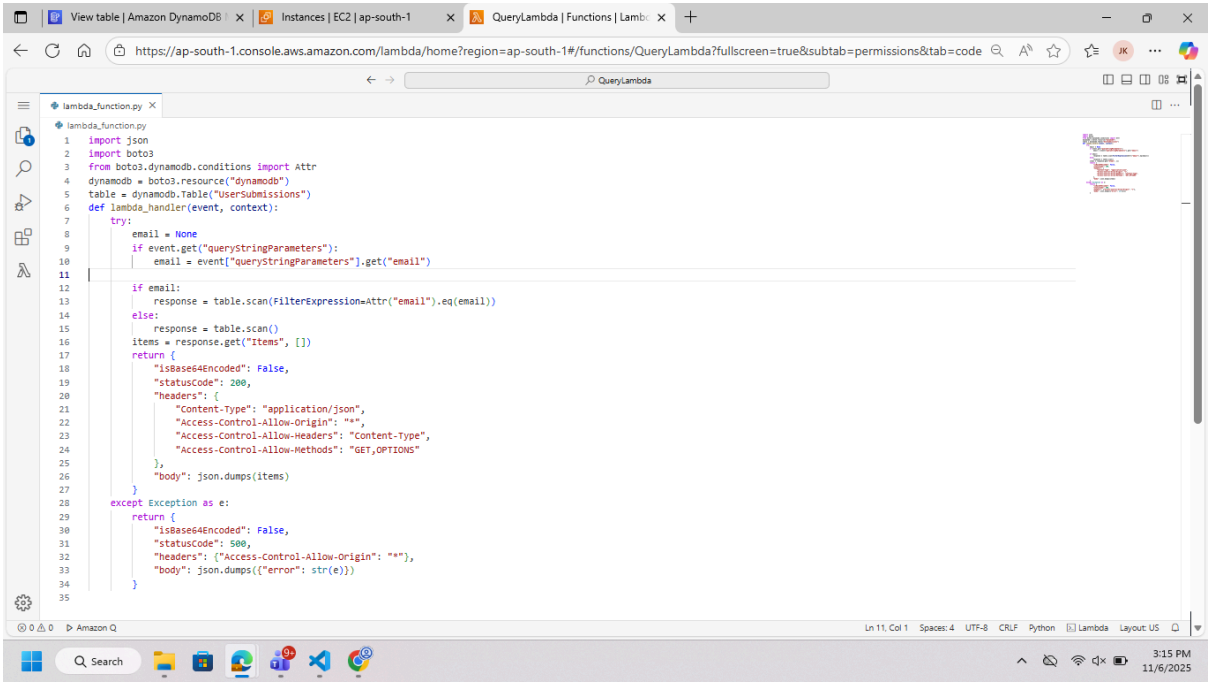
View table | Amazon DynamoDB
Instances | EC2 | ap-south-1
QueryLambda | Functions | Lamb
https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/QueryLambda?fullscreen=true&subtab=permissions&tab=code
QueryLambda
lambda_function.py
import json
import boto3
from boto3.dynamodb.conditions import Attr
dynamodb = boto3.resource("dynamodb")
table = dynamodb.Table("UserSubmissions")
def lambda_handler(event, context):
try:
email = None
if event.get("queryStringParameters"):
email = event["queryStringParameters"].get("email")
if email:
response = table.scan(FilterExpression=Attr("email").eq(email))
else:
response = table.scan()
items = response.get("Items", [])
return {
"isBase64Encoded": False,
"statusCode": 200,
"headers": {
"Content-Type": "application/json",
"Access-Control-Allow-Origin": "*",
"Access-Control-Allow-Headers": "Content-Type",
"Access-Control-Allow-Methods": "GET,OPTIONS"
},
"body": json.dumps(items)
}
except Exception as e:
return {
"isBase64Encoded": False,
"statusCode": 500,
"headers": {"Access-Control-Allow-Origin": "*"},
"body": json.dumps({"error": str(e)})
}
Search
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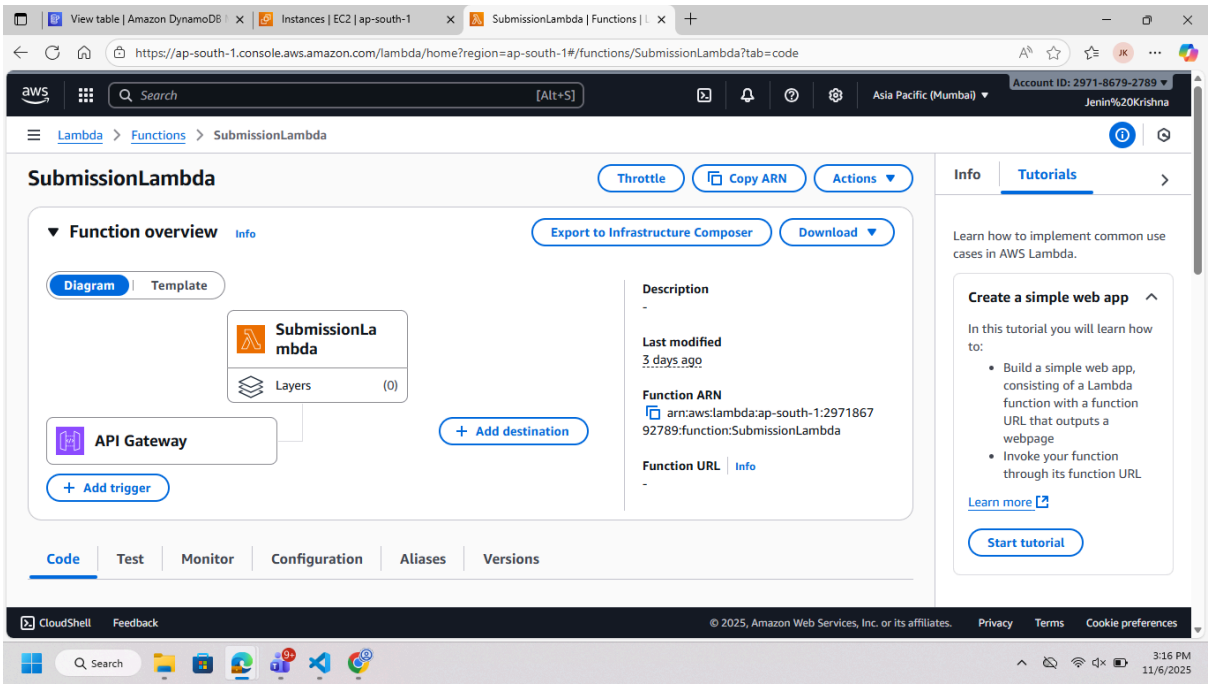
View table | Amazon DynamoDB
Instances | EC2 | ap-south-1
SubmissionLambda | Functions |
https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/SubmissionLambda?tab=code
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Lambda > Functions > SubmissionLambda
SubmissionLambda
Throttle
Copy ARN
Actions
Function overview
Info
Export to Infrastructure Composer
Download
Diagram
Template
SubmissionLambda
Layers (0)
API Gateway
Add destination
Add trigger
Description
-
Last modified
3 days ago
Function ARN
arn:aws:lambda:ap-south-1:297186792789:function:SubmissionLambda
Function URL
Info
-
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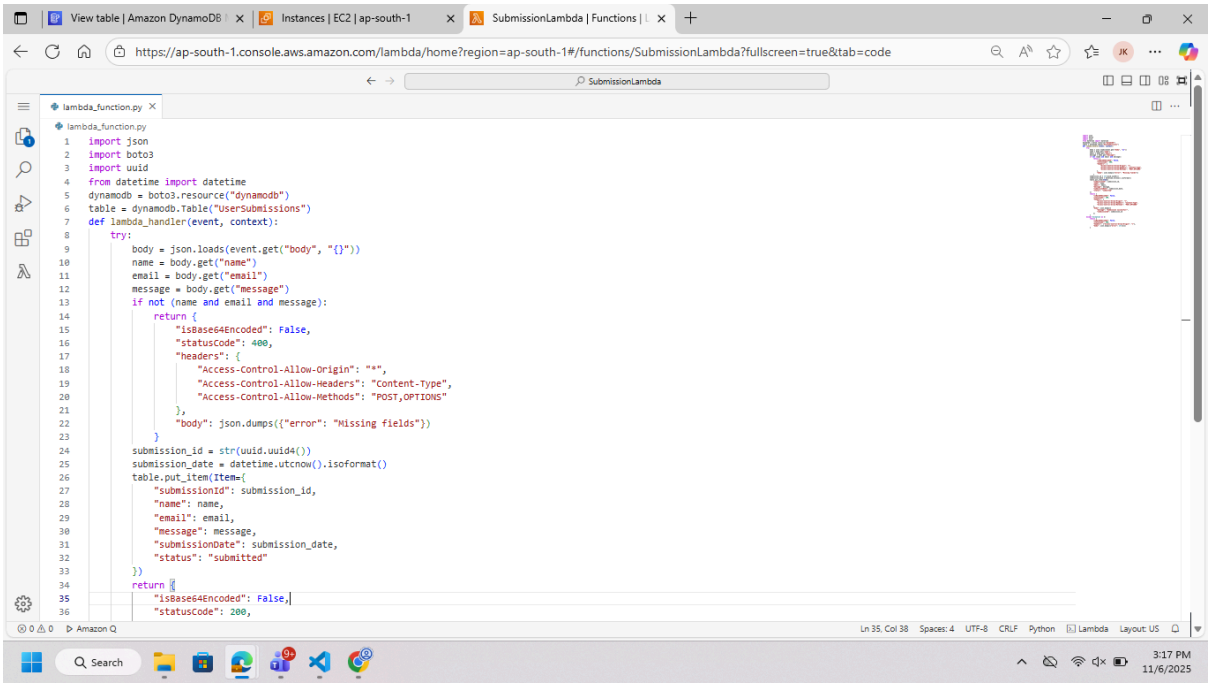
View table | Amazon DynamoDB
Instances | EC2 | ap-south-1
SubmissionLambda | Functions
https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/SubmissionLambda?fullscreen=true&tab=code
SubmissionLambda
lambda_function.py
import json
import boto3
import uuid
from datetime import datetime
dynamodb = boto3.resource("dynamodb")
table = dynamodb.Table("UserSubmissions")
def lambda_handler(event, context):
try:
body = json.loads(event.get("body", "{}"))
name = body.get("name")
email = body.get("email")
message = body.get("message")
if not (name and email and message):
return {
"isBase64Encoded": False,
"statusCode": 400,
"headers": {
"Access-Control-Allow-Origin": "*",
"Access-Control-Allow-Headers": "Content-Type",
"Access-Control-Allow-Methods": "POST,OPTIONS"
},
"body": json.dumps({"error": "Missing fields"})
}
submission_id = str(uuid.uuid4())
submission_date = datetime.utcnow().isoformat()
table.put_item(Item={
"submissionId": submission_id,
"name": name,
"email": email,
"message": message,
"submissionDate": submission_date,
"status": "submitted"
})
return {
"isBase64Encoded": False,
"statusCode": 200,
Ln 35, Col 38
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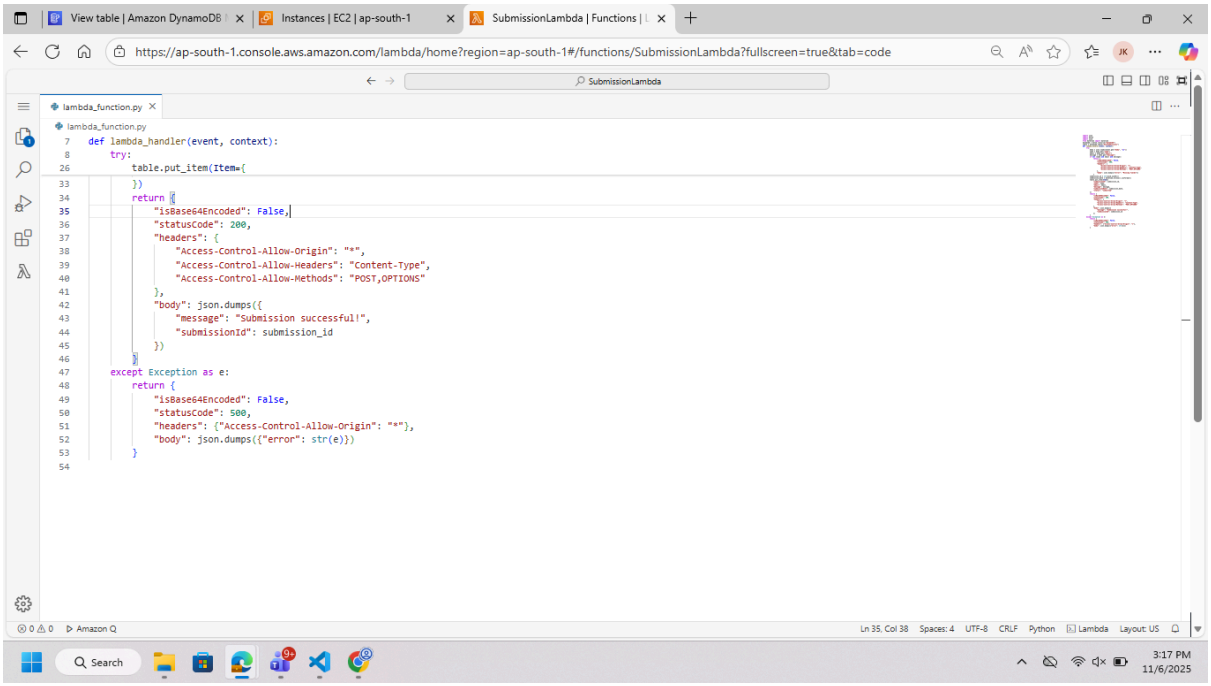
View table | Amazon DynamoDB
Instances | EC2 | ap-south-1
SubmissionLambda | Functions
https://ap-south-1.console.aws.amazon.com/lambda/home?region=ap-south-1#/functions/SubmissionLambda?fullscreen=true&tab=code
SubmissionLambda
lambda_function.py
def lambda_handler(event, context):
try:
table.put_item(Item={
})
return {
"isBase64Encoded": False,
"statusCode": 200,
"headers": {
"Access-Control-Allow-Origin": "*",
"Access-Control-Allow-Headers": "Content-Type",
"Access-Control-Allow-Methods": "POST,OPTIONS"
},
"body": json.dumps({
"message": "Submission successful!",
"submissionId": submission_id
})
}
except Exception as e:
return {
"isBase64Encoded": False,
"statusCode": 500,
"headers": {"Access-Control-Allow-Origin": "*"},
"body": json.dumps({"error": str(e)})
}
Ln 35, Col 38
Spaces: 4
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CRLF
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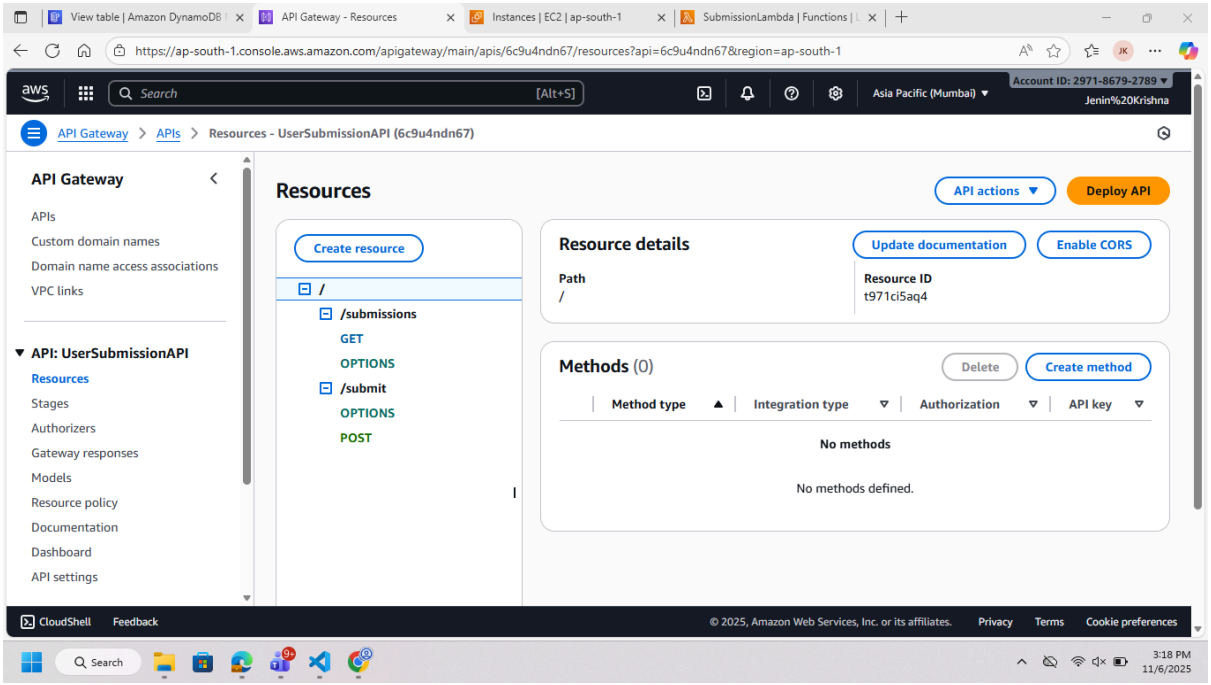
View table | Amazon DynamoDB
API Gateway - Resources
Instances | EC2 | ap-south-1
SubmissionLambda | Functions
https://ap-south-1.console.aws.amazon.com/apigateway/main/apis/6c9u4ndn67/resources?api=6c9u4ndn67&region=ap-south-1
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API Gateway > APIs > Resources - UserSubmissionAPI (6c9u4ndn67)
API Gateway
APIs
Custom domain names
Domain name access associations
VPC links
API: UserSubmissionAPI
Resources
Stages
Authorizers
Gateway responses
Models
Resource policy
Documentation
Dashboard
API settings
Resources
API actions
Deploy API
Create resource
/
/submissions
GET
OPTIONS
/submit
OPTIONS
POST
Resource details
Update documentation
Enable CORS
Path
/
Resource ID
t971ci5aq4
Methods (0)
Delete
Create method
Method type
Integration type
Authorization
API key
No methods
No methods defined.
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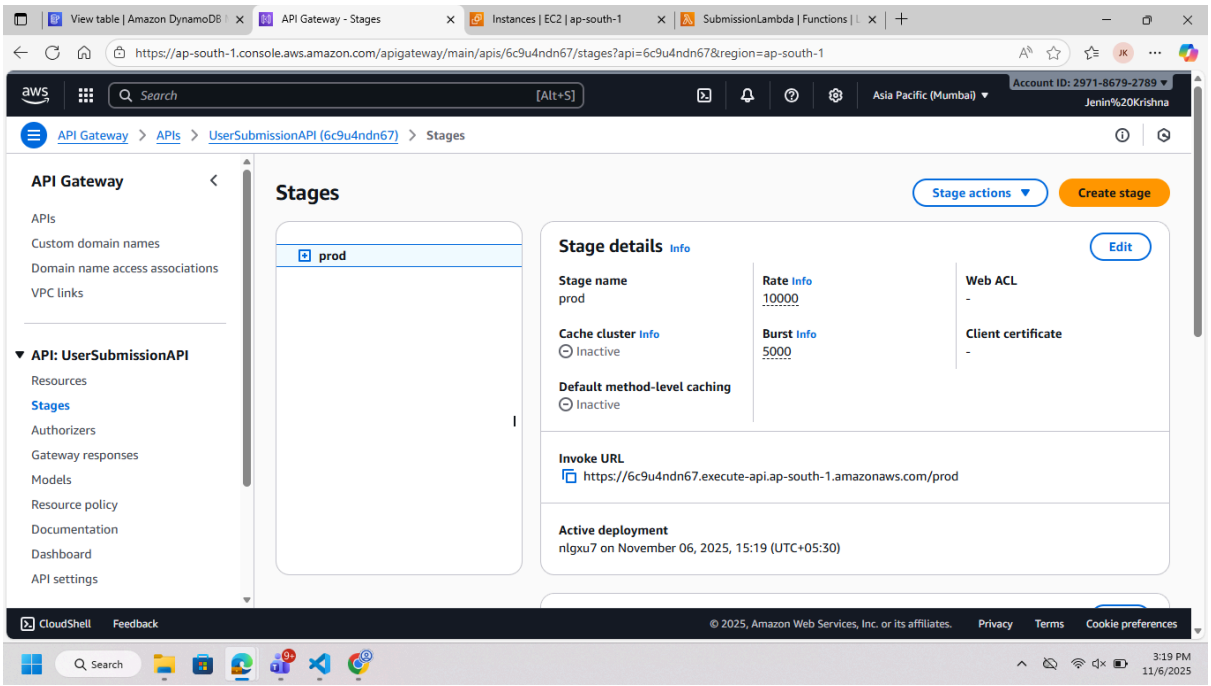
View table | Amazon DynamoDB
API Gateway - Stages
Instances | EC2 | ap-south-1
SubmissionLambda | Functions
https://ap-south-1.console.aws.amazon.com/apigateway/main/apis/6c9u4ndn67/stages?api=6c9u4ndn67&region=ap-south-1
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API Gateway > APIs > UserSubmissionAPI (6c9u4ndn67) > Stages
API Gateway
APIs
Custom domain names
Domain name access associations
VPC links
API: UserSubmissionAPI
Resources
Stages
Authorizers
Gateway responses
Models
Resource policy
Documentation
Dashboard
API settings
Stages
Stage actions
Create stage
prod
Stage details Info
Edit
Stage name
prod
Rate Info
10000
Web ACL
-
Cache cluster Info
Inactive
Burst Info
5000
Client certificate
-
Default method-level caching
Inactive
Invoke URL
https://6c9u4ndn67.execute-api.ap-south-1.amazonaws.com/prod
Active deployment
nlgxu7 on November 06, 2025, 15:19 (UTC+05:30)
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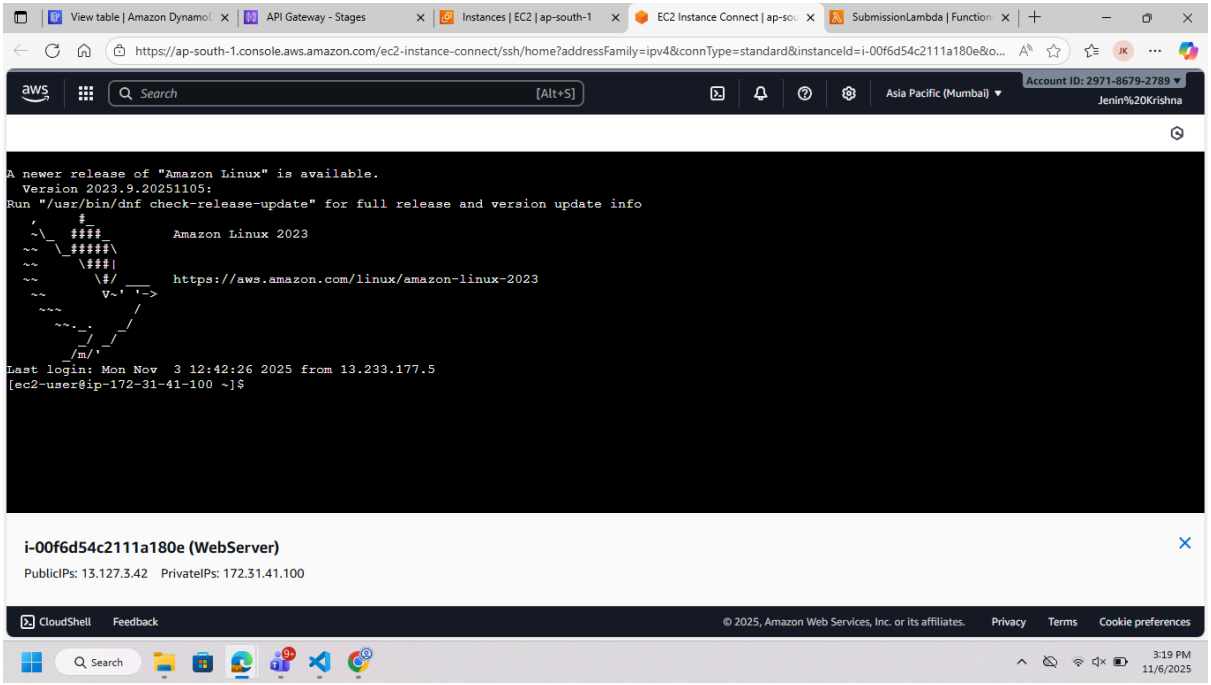
View table | Amazon Dynamo
API Gateway - Stages
Instances | EC2 | ap-south-1
EC2 Instance Connect | ap-so
SubmissionLambda | Function
https://ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh/home?addressFamily=ipv4&connType=standard&instanceId=i-00f6d54c2111a180e&o...
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A newer release of "Amazon Linux" is available.
Version 2023.9.20251105:
Run "/usr/bin/dnf check-release-update" for full release and version update info
Amazon Linux 2023
https://aws.amazon.com/linux/amazon-linux-2023
Last login: Mon Nov 3 12:42:26 2025 from 13.233.177.5
[ec2-user@ip-172-31-41-100 ~]$
i-00f6d54c2111a180e (WebServer)
PublicIPs: 13.127.3.42 PrivateIPs: 172.31.41.100
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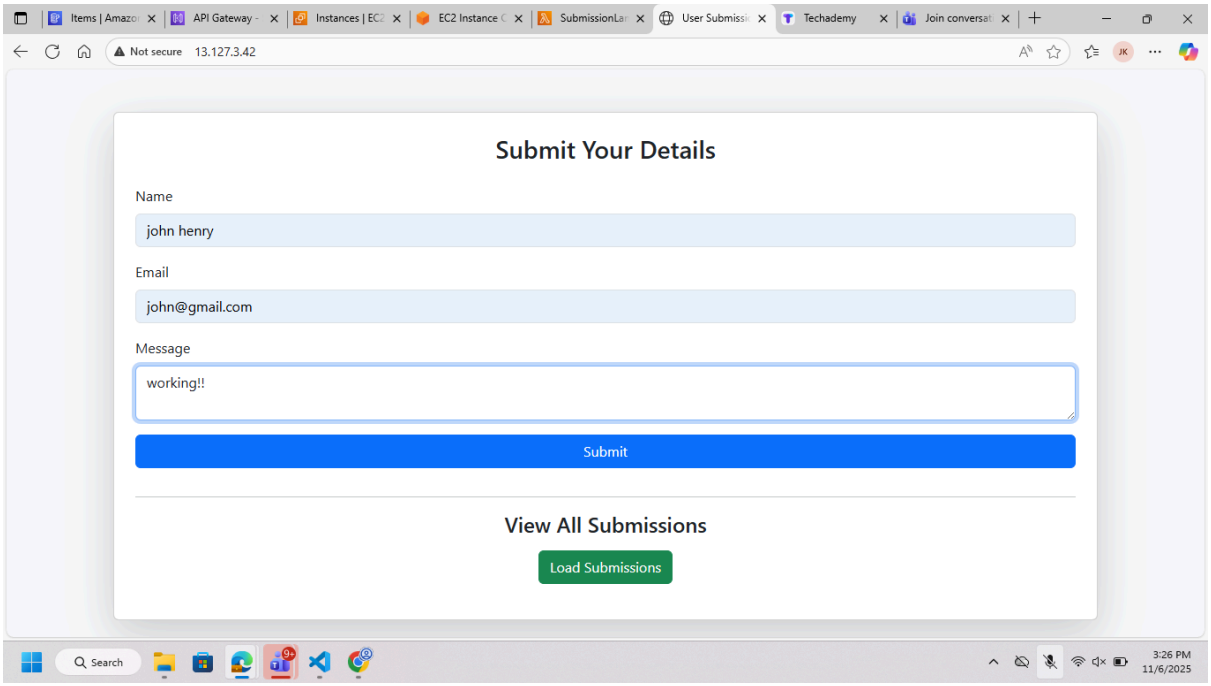
Items | Amazo
API Gateway -
Instances | EC2
EC2 Instance
SubmissionLar
User Submissi
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Join conversati
Not secure 13.127.3.42
Submit Your Details
Name
john henry
Email
john@gmail.com
Message
working!!
Submit
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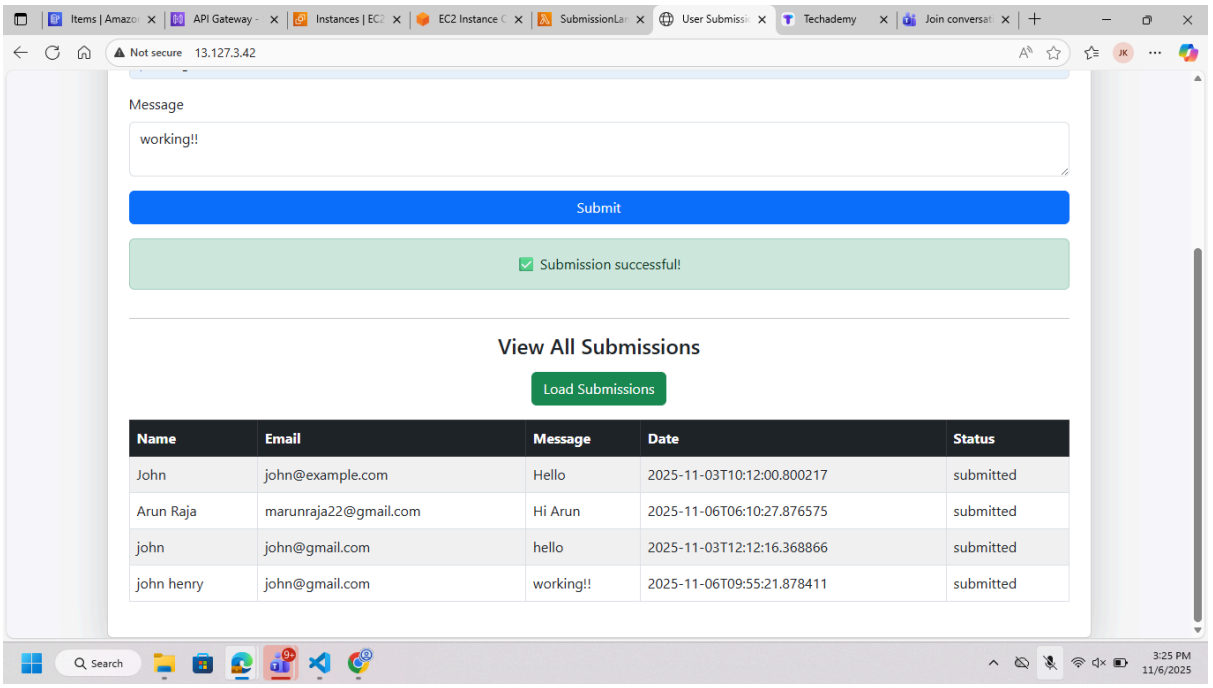
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Message
working!!
Submit
Submission successful!
View All Submissions
Load Submissions
Name Email Message Date Status
John john@example.com Hello 2025-11-03T10:12:00.800217 submitted
Arun Raja marunraja22@gmail.com Hi Arun 2025-11-06T06:10:27.876575 submitted
john john@gmail.com hello 2025-11-03T12:12:16.368866 submitted
john henry john@gmail.com working!! 2025-11-06T09:55:21.878411 submitted
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