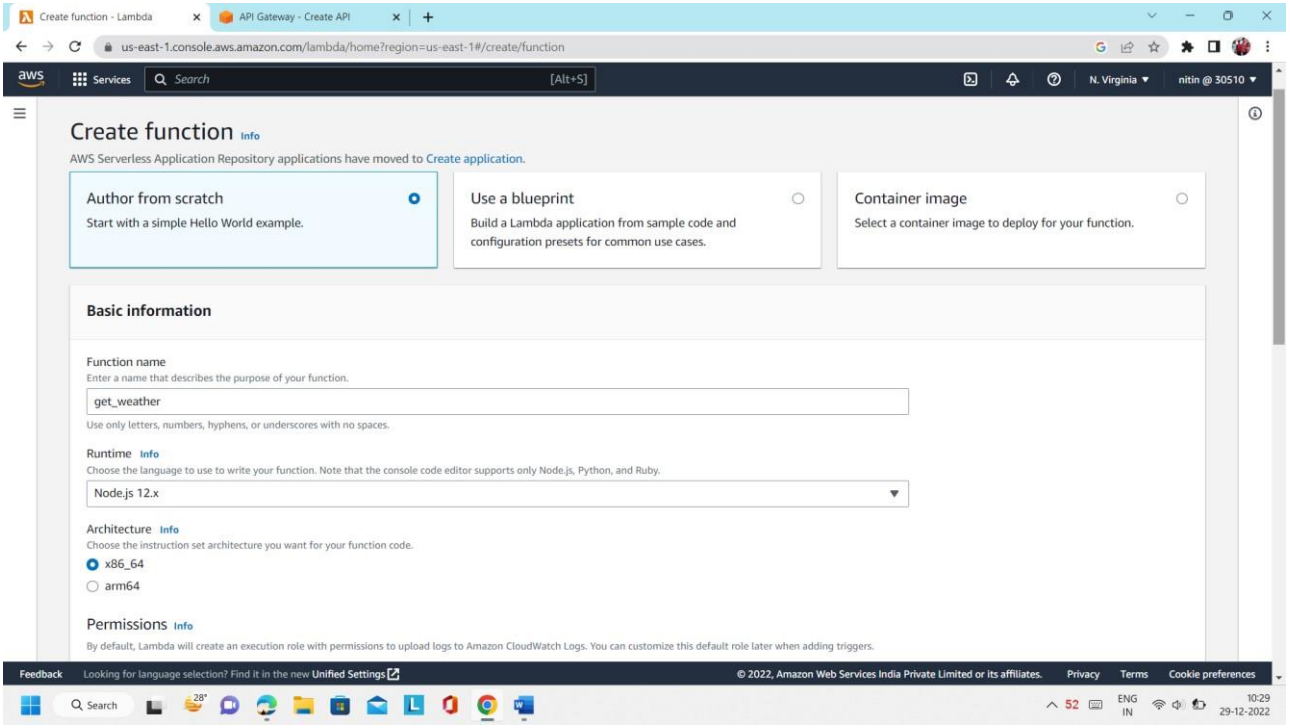
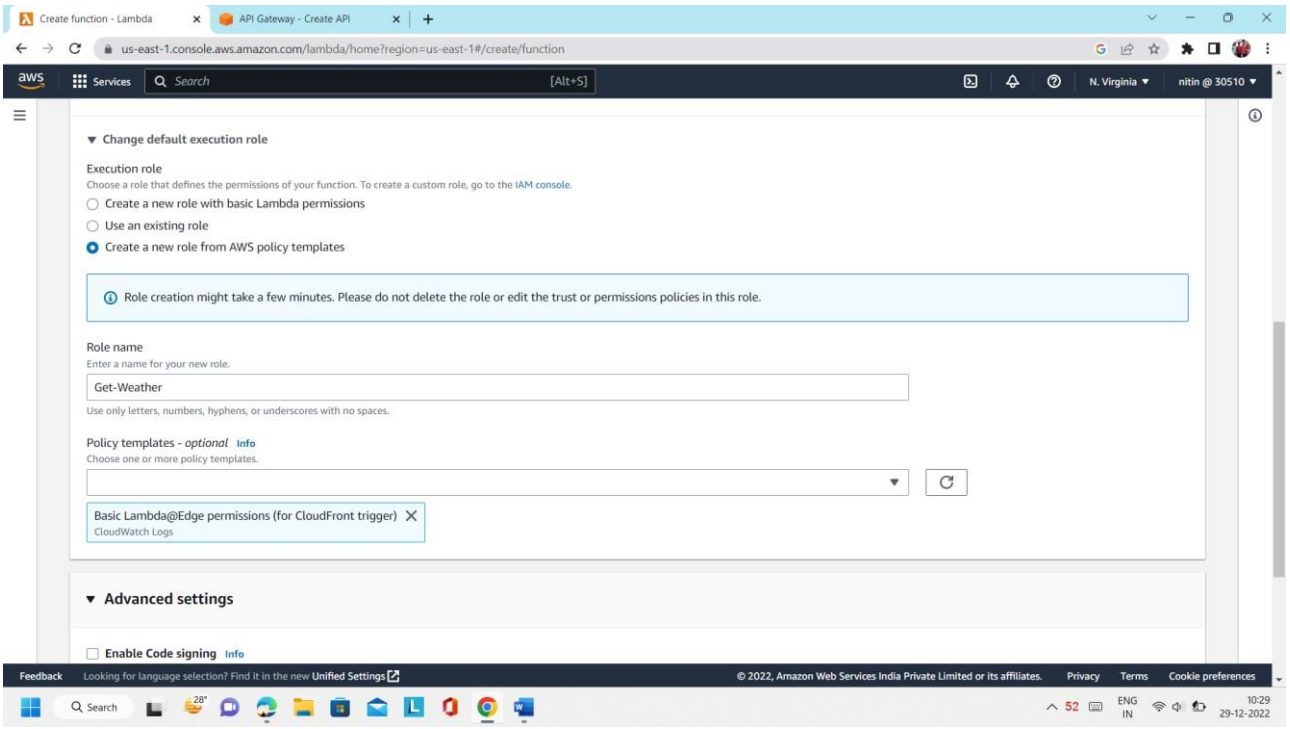
CSC SKILL – 12

Name: K.Nitin reddy

ID no: 2000030510

Sec: 13




Create function - Lambda
API Gateway - Create API
us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/create/function
Services
Search
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N. Virginia
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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
Role creation might take a few minutes. Please do not delete the role or edit the trust or permissions policies in this role.
Role name
Enter a name for your new role.
Get-Weather
Use only letters, numbers, hyphens, or underscores with no spaces.
Policy templates - optional Info
Choose one or more policy templates.
Basic Lambda@Edge permissions (for CloudFront trigger)
CloudWatch Logs
Advanced settings
Enable Code signing Info
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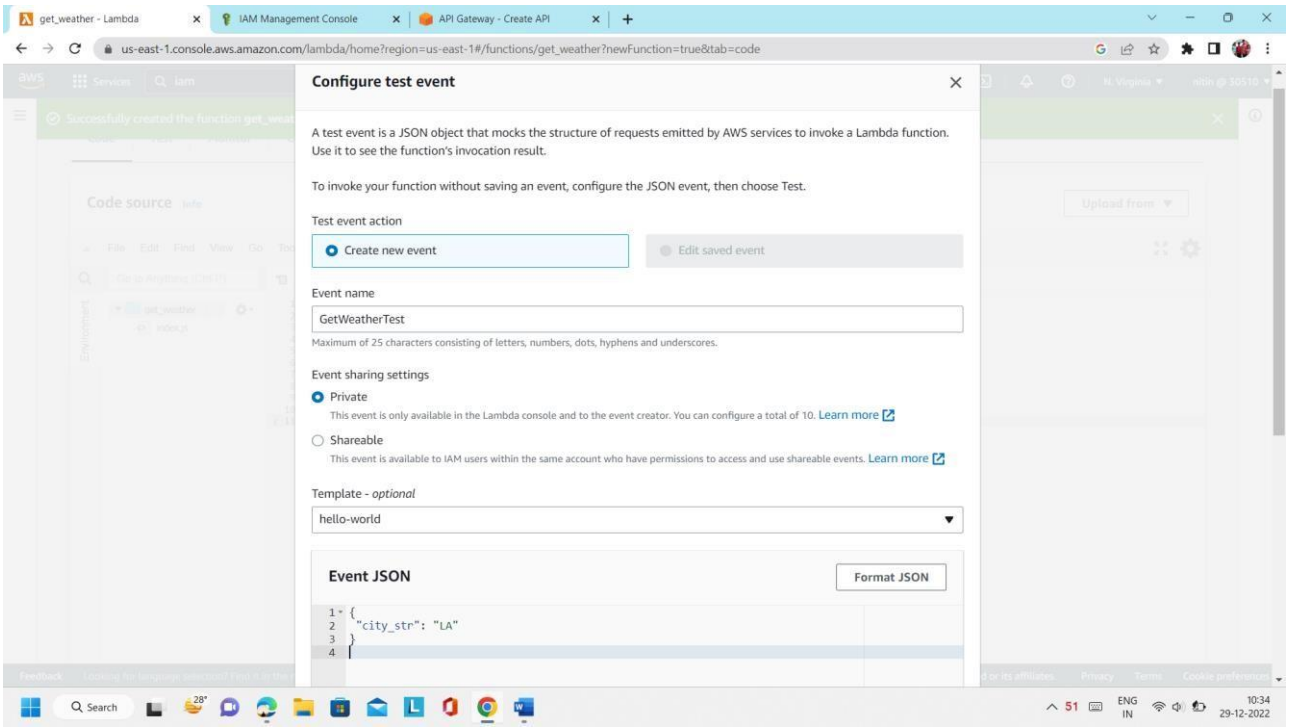
get_weather - Lambda
IAM Management Console
API Gateway - Create API
us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/get_weather?newFunction=true&tab=code
Configure test event
A test event is a JSON object that mocks the structure of requests emitted by AWS services to invoke a Lambda function. Use it to see the function's invocation result.
To invoke your function without saving an event, configure the JSON event, then choose Test.
Test event action
Create new event
Edit saved event
Event name
GetWeatherTest
Maximum of 25 characters consisting of letters, numbers, dots, hyphens and underscores.
Event sharing settings
Private
This event is only available in the Lambda console and to the event creator. You can configure a total of 10. Learn more
Shareable
This event is available to IAM users within the same account who have permissions to access and use shareable events. Learn more
Template - optional
hello-world
Event JSON
Format JSON
{
"city_str": "LA"
}
Search
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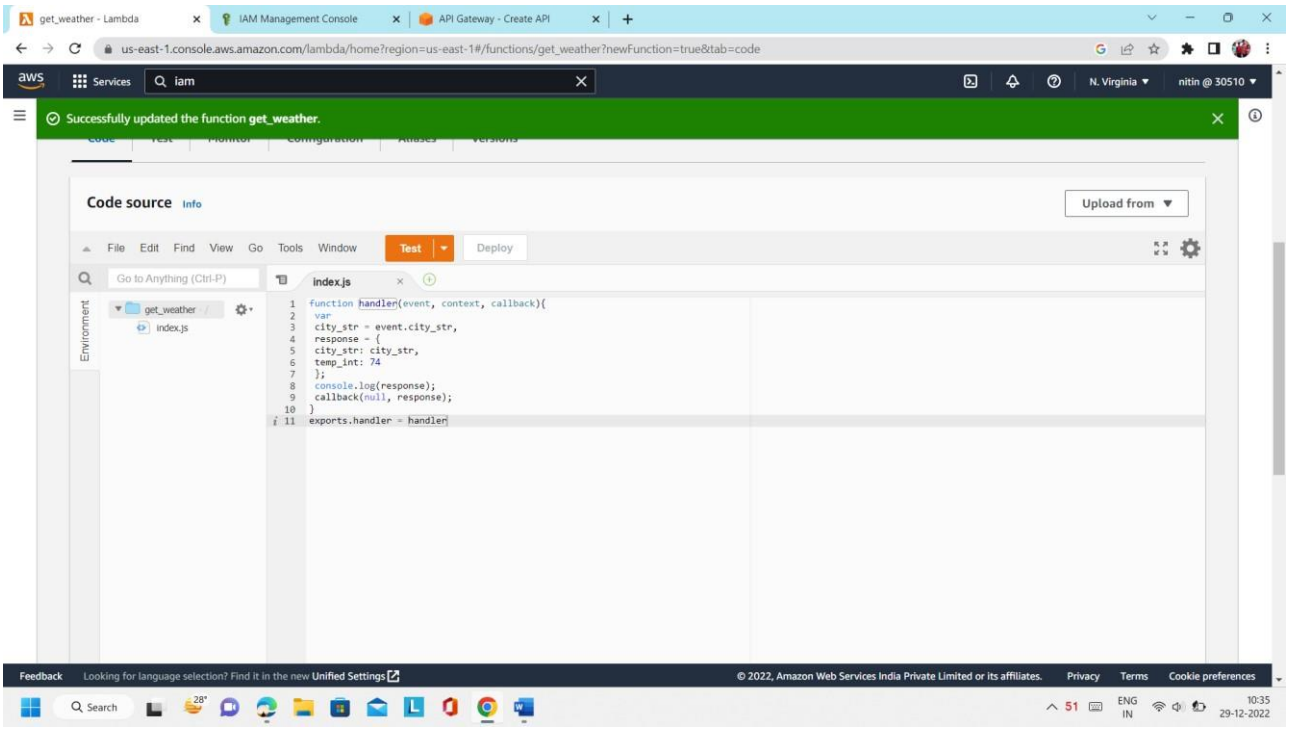
get_weather - Lambda
IAM Management Console
API Gateway - Create API
us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/get_weather?newFunction=true&tab=code
Services
iam
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Successfully updated the function get_weather.
Code source Info
Upload from
File Edit Find View Go Tools Window
Test
Deploy
Go to Anything (Ctrl-P)
index.js
Environment
get_weather
index.js
function handler(event, context, callback){
var
city_str = event.city_str,
response = {
city_str: city_str,
temp_int: 74
};
console.log(response);
callback(null, response);
}
exports.handler = handler
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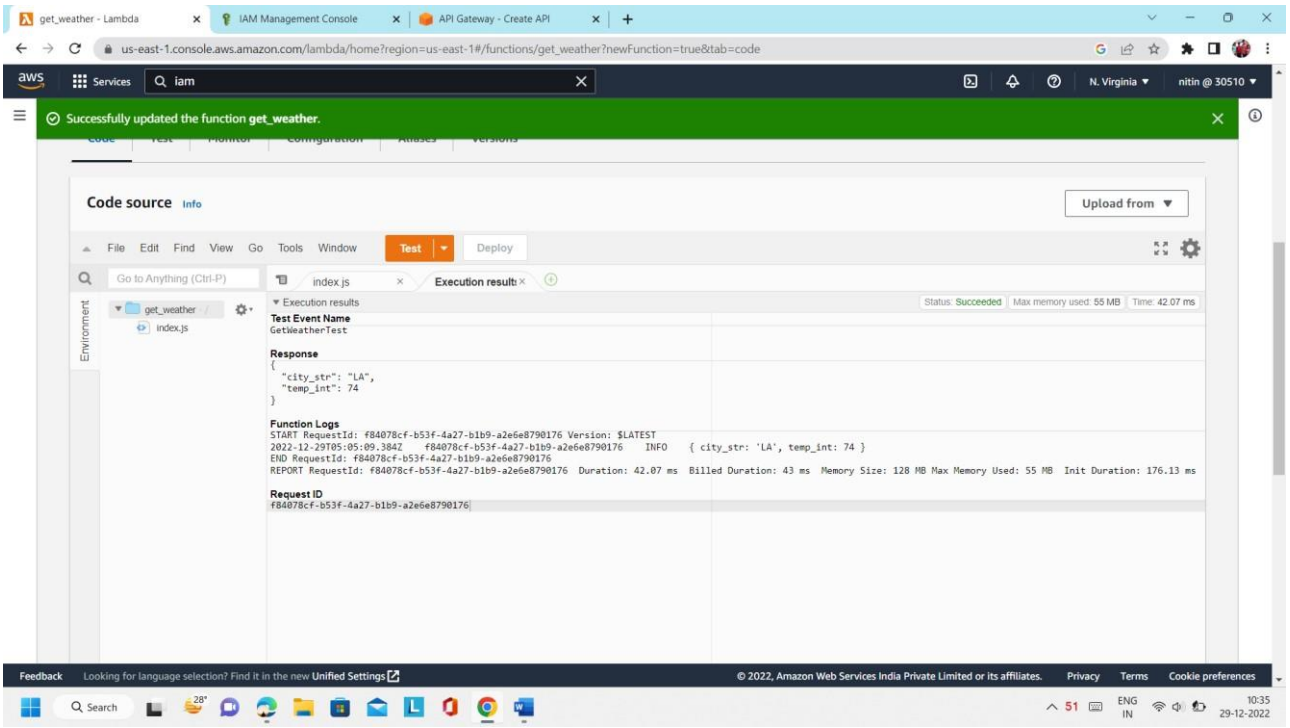
get_weather - Lambda
IAM Management Console
API Gateway - Create API
us-east-1.console.aws.amazon.com/lambda/home?region=us-east-1#/functions/get_weather?newFunction=true&tab=code
Services
iam
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Successfully updated the function get_weather.
Code source Info
Upload from
File Edit Find View Go Tools Window
Test
Deploy
Go to Anything (Ctrl-P)
index.js
Execution result
Environment
get_weather
index.js
Execution results
Status: Succeeded
Max memory used: 55 MB
Time: 42.07 ms
Test Event Name
GetWeatherTest
Response
{
"city_str": "LA",
"temp_int": 74
}
Function Logs
START RequestId: f84078cf-b53f-4a27-b1b9-a2e6e8790176 Version: $LATEST
2022-12-29T05:05:09.384Z f84078cf-b53f-4a27-b1b9-a2e6e8790176 INFO { city_str: 'LA', temp_int: 74 }
END RequestId: f84078cf-b53f-4a27-b1b9-a2e6e8790176
REPORT RequestId: f84078cf-b53f-4a27-b1b9-a2e6e8790176 Duration: 42.07 ms Billed Duration: 43 ms Memory Size: 128 MB Max Memory Used: 55 MB Init Duration: 176.13 ms
Request ID
f84078cf-b53f-4a27-b1b9-a2e6e8790176
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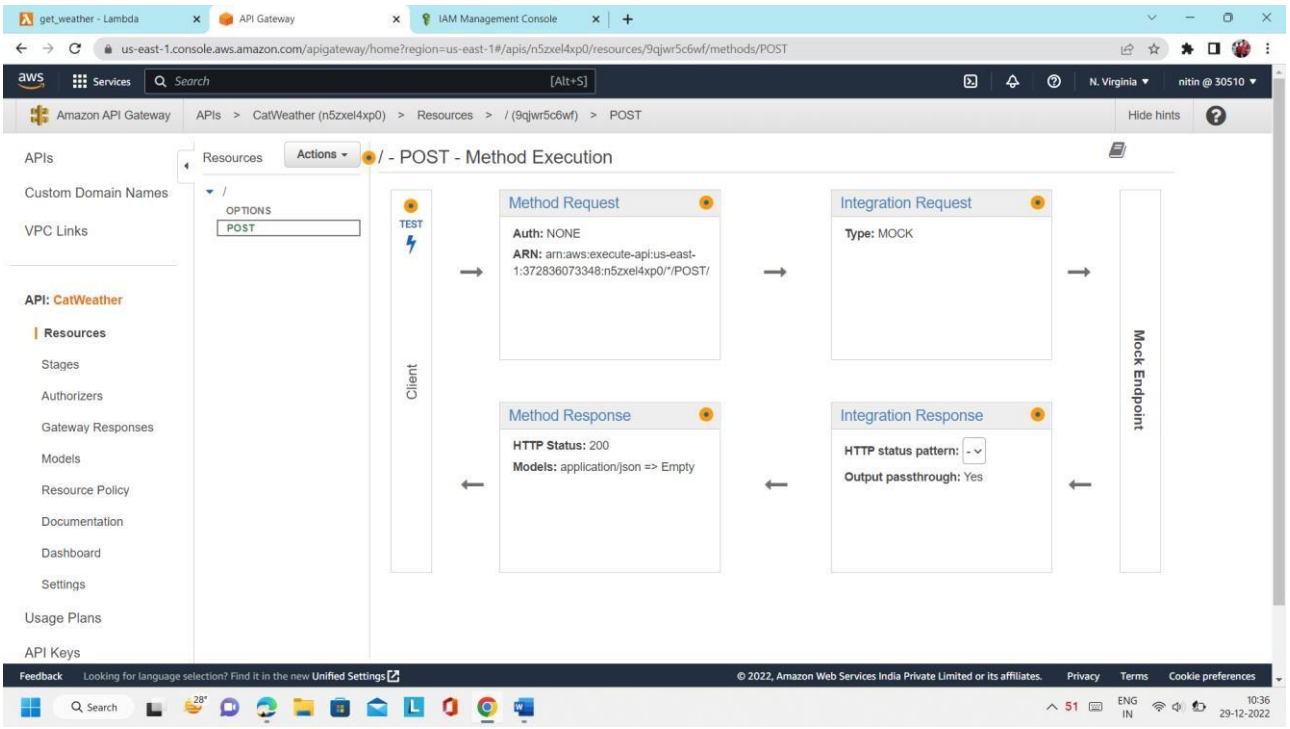
get_weather - Lambda
API Gateway
IAM Management Console
us-east-1.console.aws.amazon.com/apigateway/home?region=us-east-1#/apis/n5zxel4xp0/resources/9qjwr5c6wf/methods/POST
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Amazon API Gateway
APIs > CatWeather (n5zxel4xp0) > Resources > / (9qjwr5c6wf) > POST
Hide hints
APIs
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API: CatWeather
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Actions
/ - POST - Method Execution
/
OPTIONS
POST
TEST
Client
Method Request
Auth: NONE
ARN: arn:aws:execute-api:us-east-1:372836073348:n5zxel4xp0/*/POST/
Integration Request
Type: MOCK
Mock Endpoint
Method Response
HTTP Status: 200
Models: application/json => Empty
Integration Response
HTTP status pattern:
Output passthrough: Yes
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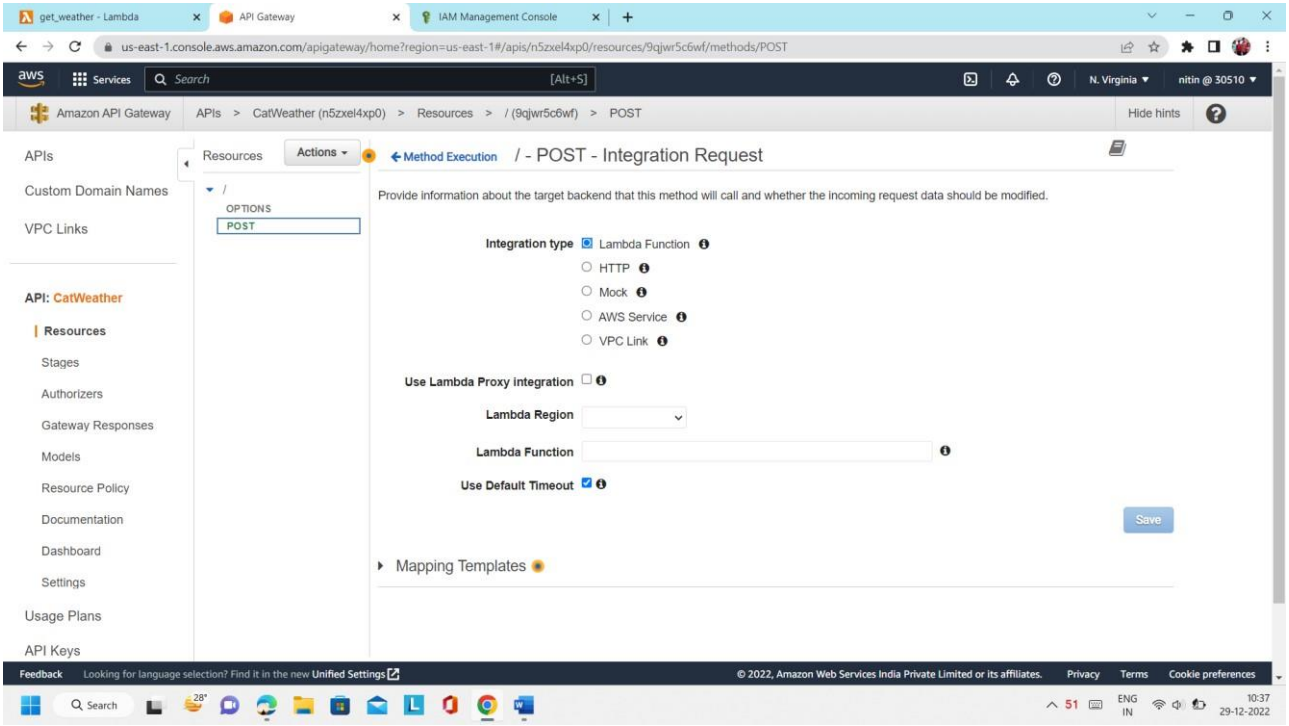
get_weather - Lambda
API Gateway
IAM Management Console
us-east-1.console.aws.amazon.com/apigateway/home?region=us-east-1#/apis/n5zxel4xp0/resources/9qjwr5c6wf/methods/POST
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Amazon API Gateway
APIs > CatWeather (n5zxel4xp0) > Resources > / (9qjwr5c6wf) > POST
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Usage Plans
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Resources
Actions
Method Execution
/ - POST - Integration Request
/
OPTIONS
POST
Provide information about the target backend that this method will call and whether the incoming request data should be modified.
Integration type
Lambda Function
HTTP
Mock
AWS Service
VPC Link
Use Lambda Proxy integration
Lambda Region
Lambda Function
Use Default Timeout
Save
Mapping Templates
Feedback
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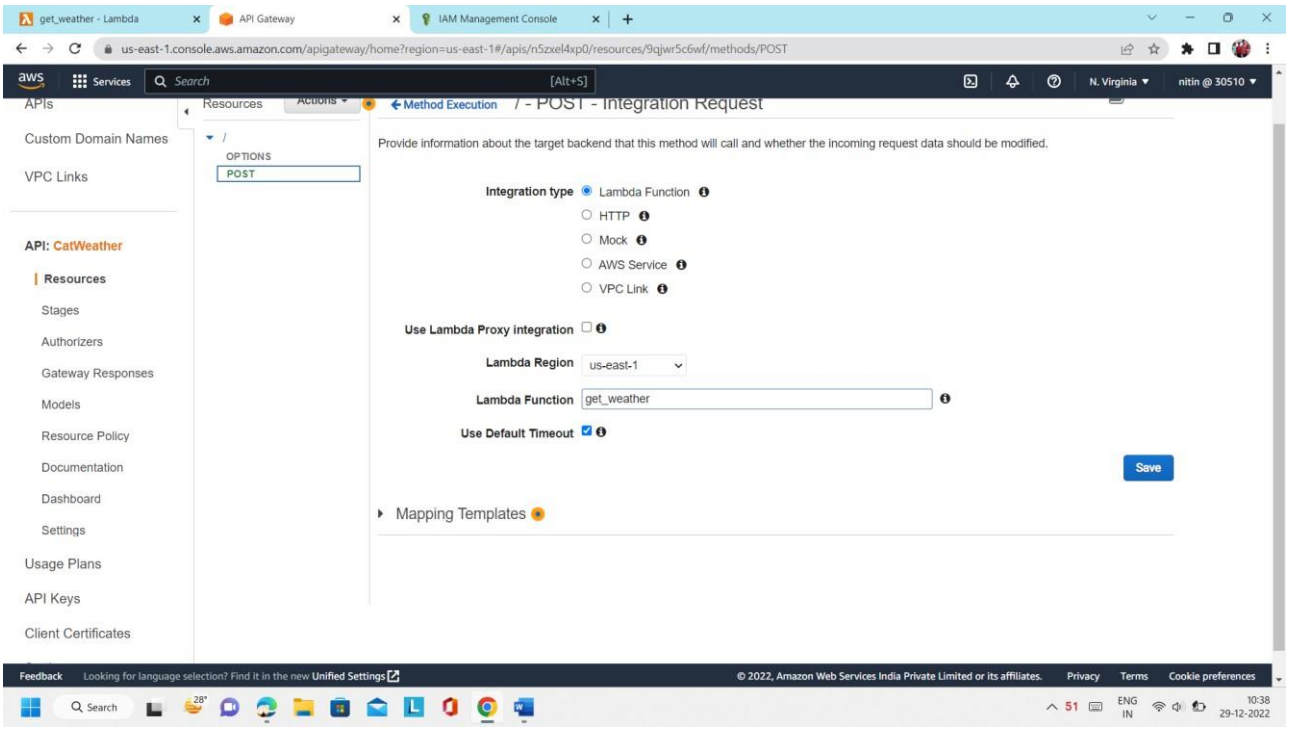
get_weather - Lambda
API Gateway
IAM Management Console
us-east-1.console.aws.amazon.com/apigateway/home?region=us-east-1#/apis/n5zxel4xp0/resources/9qjwr5c6wf/methods/POST
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Method Execution
/ - POST - Integration Request
OPTIONS
POST
Provide information about the target backend that this method will call and whether the incoming request data should be modified.
Integration type
Lambda Function
HTTP
Mock
AWS Service
VPC Link
Use Lambda Proxy integration
Lambda Region
us-east-1
Lambda Function
get_weather
Use Default Timeout
Save
Mapping Templates
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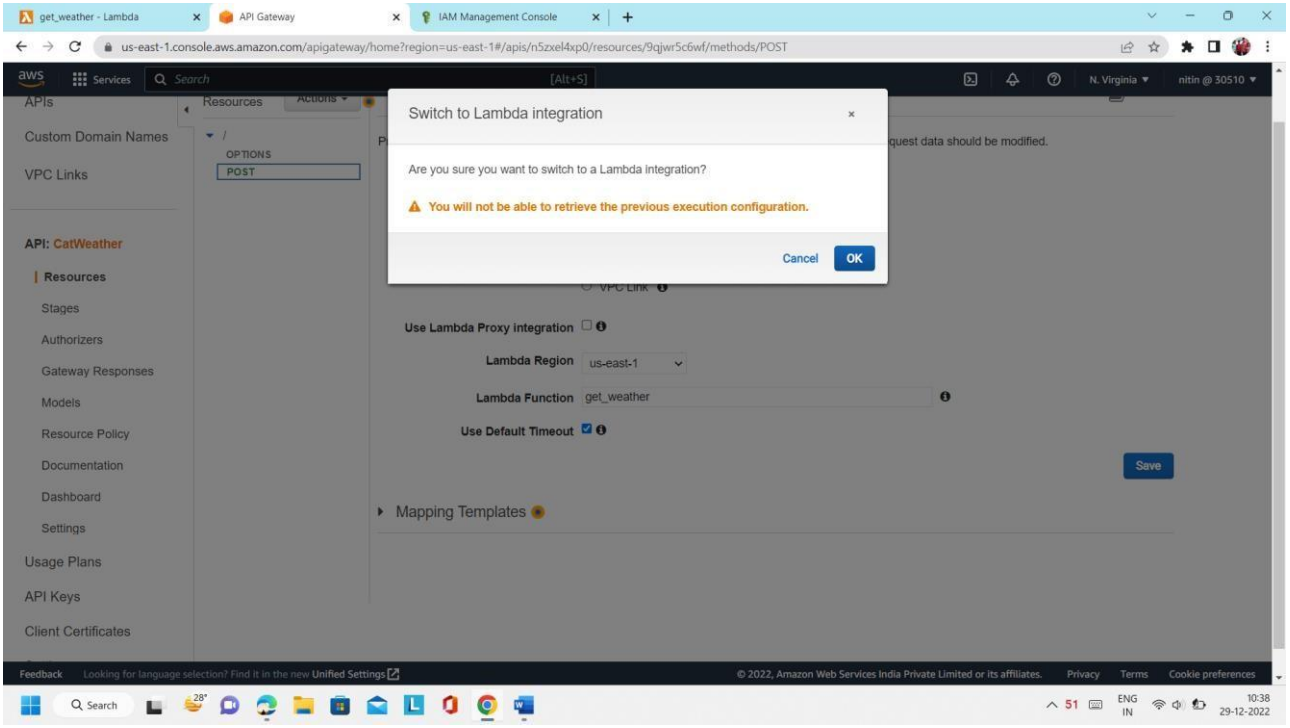
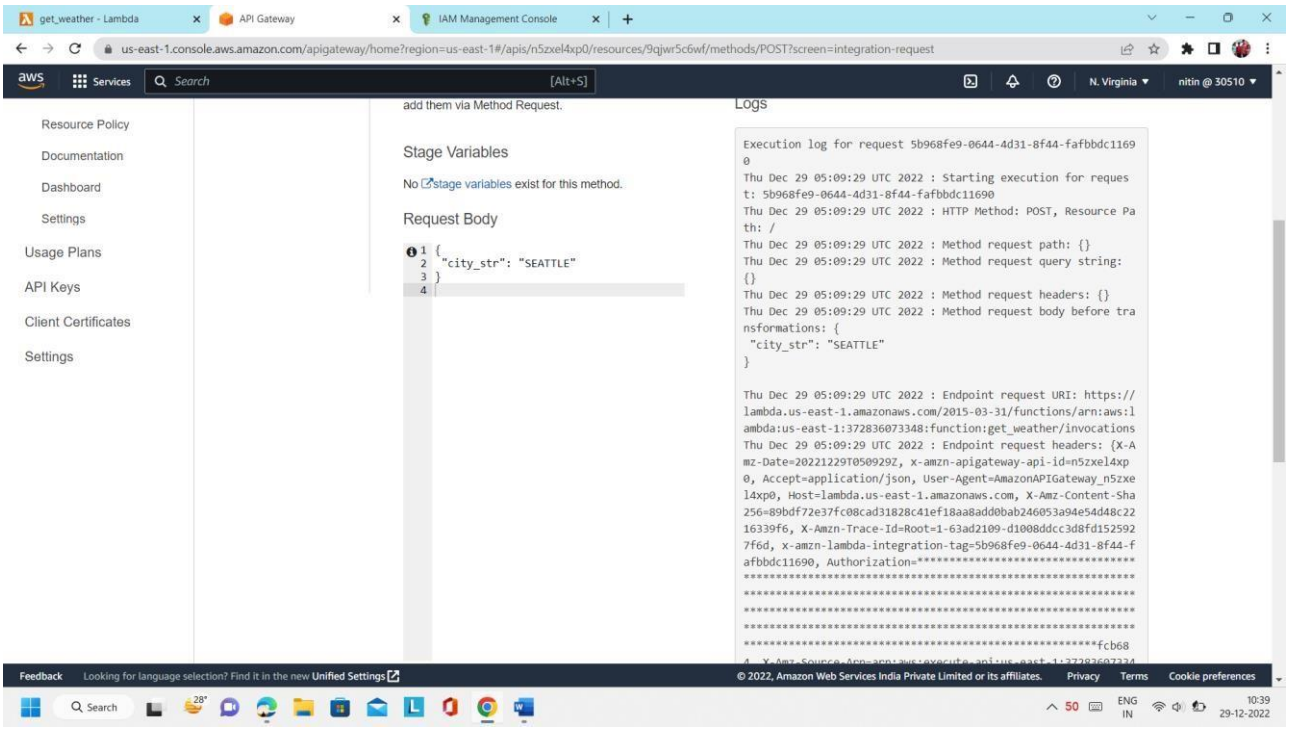

get_weather - Lambda
API Gateway
IAM Management Console
us-east-1.console.aws.amazon.com/apigateway/home?region=us-east-1#/apis/n5zxel4xp0/resources/9qjwr5c6wf/methods/POST
Switch to Lambda integration
Are you sure you want to switch to a Lambda integration?
You will not be able to retrieve the previous execution configuration.
Cancel
OK
Use Lambda Proxy integration
Lambda Region
us-east-1
Lambda Function
get_weather
Use Default Timeout
Save
Mapping Templates


get_weather - Lambda
API Gateway
IAM Management Console
us-east-1.console.aws.amazon.com/apigateway/home?region=us-east-1#/apis/n5zxel4xp0/resources/9qjwr5c6wf/methods/POST?screen=integration-request
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Client Certificates
Settings
add them via Method Request.
Stage Variables
No stage variables exist for this method.
Request Body
{
"city_str": "SEATTLE"
}
Logs
Execution log for request 5b968fe9-0644-4d31-8f44-fafbbdc11690
Thu Dec 29 05:09:29 UTC 2022 : Starting execution for request: 5b968fe9-0644-4d31-8f44-fafbbdc11690
Thu Dec 29 05:09:29 UTC 2022 : HTTP Method: POST, Resource Path: /
Thu Dec 29 05:09:29 UTC 2022 : Method request path: {}
Thu Dec 29 05:09:29 UTC 2022 : Method request query string: {}
Thu Dec 29 05:09:29 UTC 2022 : Method request headers: {}
Thu Dec 29 05:09:29 UTC 2022 : Method request body before transformations: {
"city_str": "SEATTLE"
}
Thu Dec 29 05:09:29 UTC 2022 : Endpoint request URI: https://lambda.us-east-1.amazonaws.com/2015-03-31/functions/arn:aws:lambda:us-east-1:372836073348:function:get_weather/invocations
Thu Dec 29 05:09:29 UTC 2022 : Endpoint request headers: {X-Amz-Date=20221229T050929Z, x-amzn-apigateway-api-id=n5zxel4xp0, Accept=application/json, User-Agent=AmazonAPIGateway_n5zxel4xp0, Host=lambda.us-east-1.amazonaws.com, X-Amz-Content-Sha256=89bdf72e37fc08cad31828c41ef18aa8add0bab246053a94e54d48c2216339f6, X-Amzn-Trace-Id=Root=1-63ad2109-d1008ddcc3d8fd1525927f6d, x-amzn-lambda-integration-tag=5b968fe9-0644-4d31-8f44-fafbbdc11690, Authorization=**********
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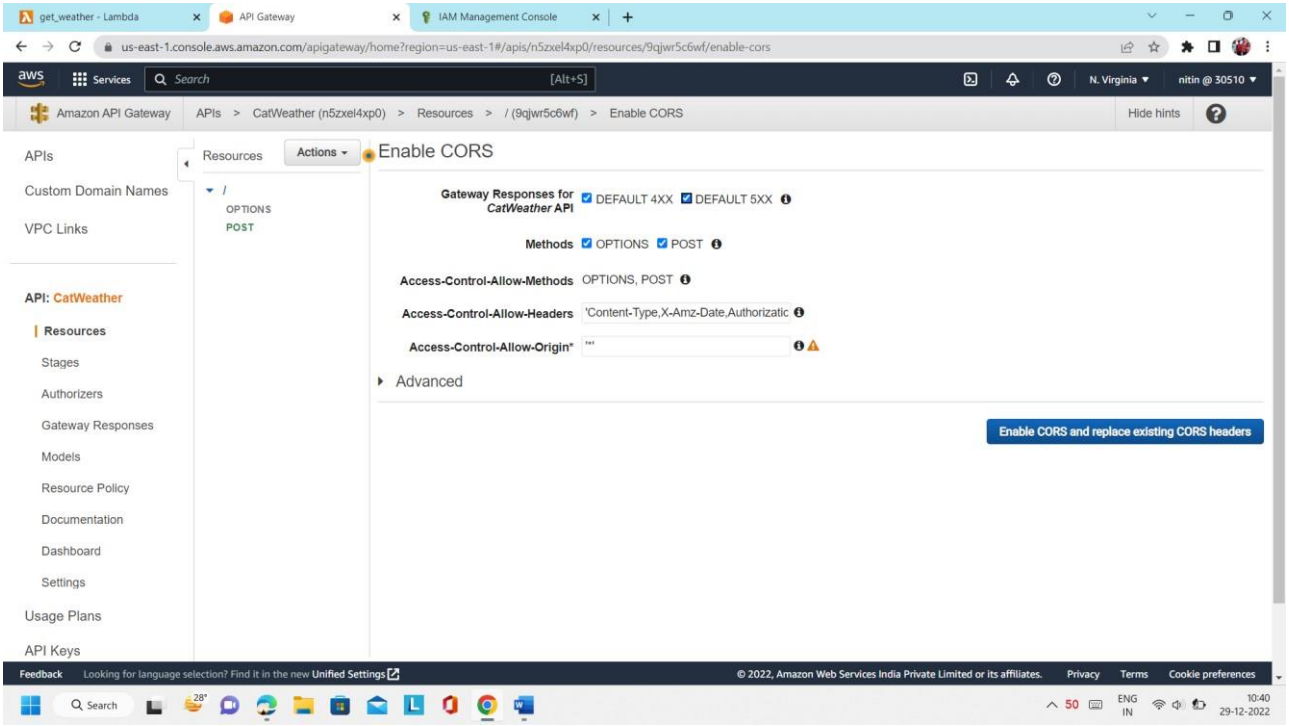
get_weather - Lambda
API Gateway
IAM Management Console
us-east-1.console.aws.amazon.com/apigateway/home?region=us-east-1#/apis/n5zxel4xp0/resources/9qjwr5c6wf/enable-cors
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Amazon API Gateway
APIs > CatWeather (n5zxel4xp0) > Resources > / (9qjwr5c6wf) > Enable CORS
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OPTIONS
POST
Enable CORS
Gateway Responses for CatWeather API
DEFAULT 4XX
DEFAULT 5XX
Methods
OPTIONS
POST
Access-Control-Allow-Methods
OPTIONS, POST
Access-Control-Allow-Headers
'Content-Type,X-Amz-Date,Authorizatic
Access-Control-Allow-Origin*
*
Advanced
Enable CORS and replace existing CORS headers
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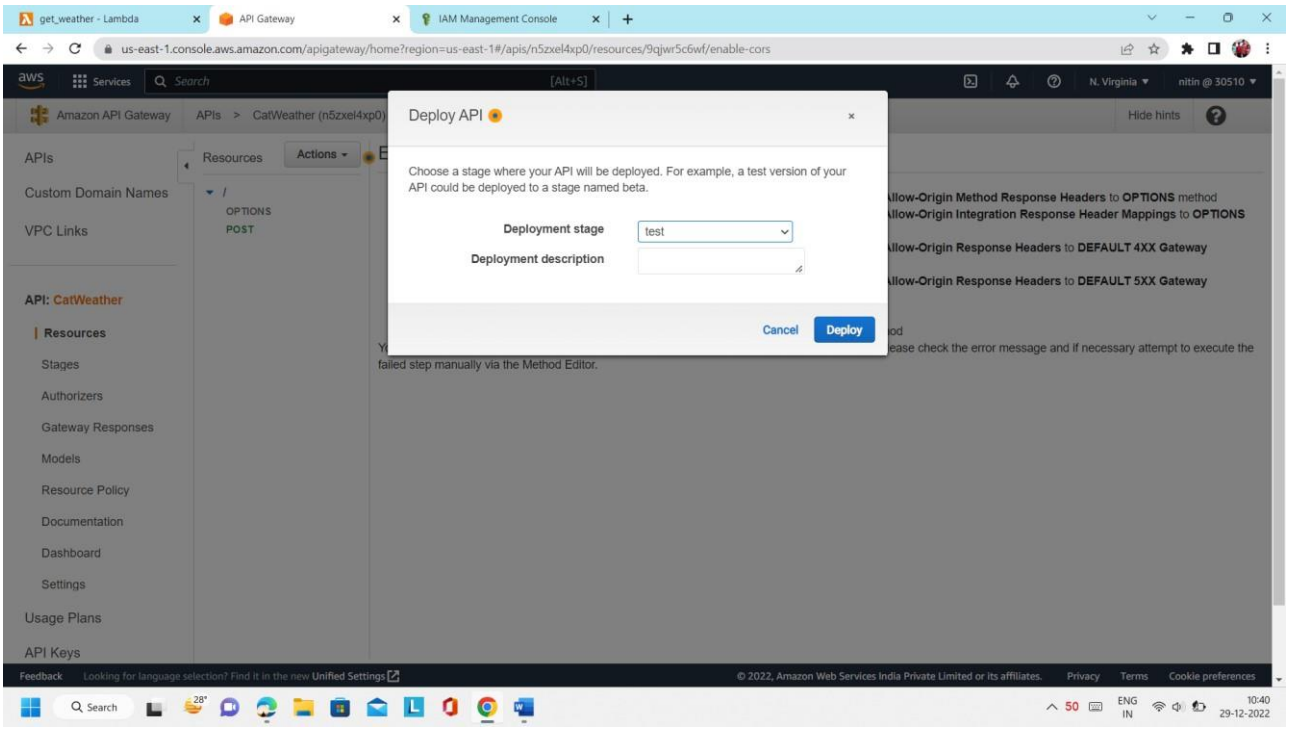
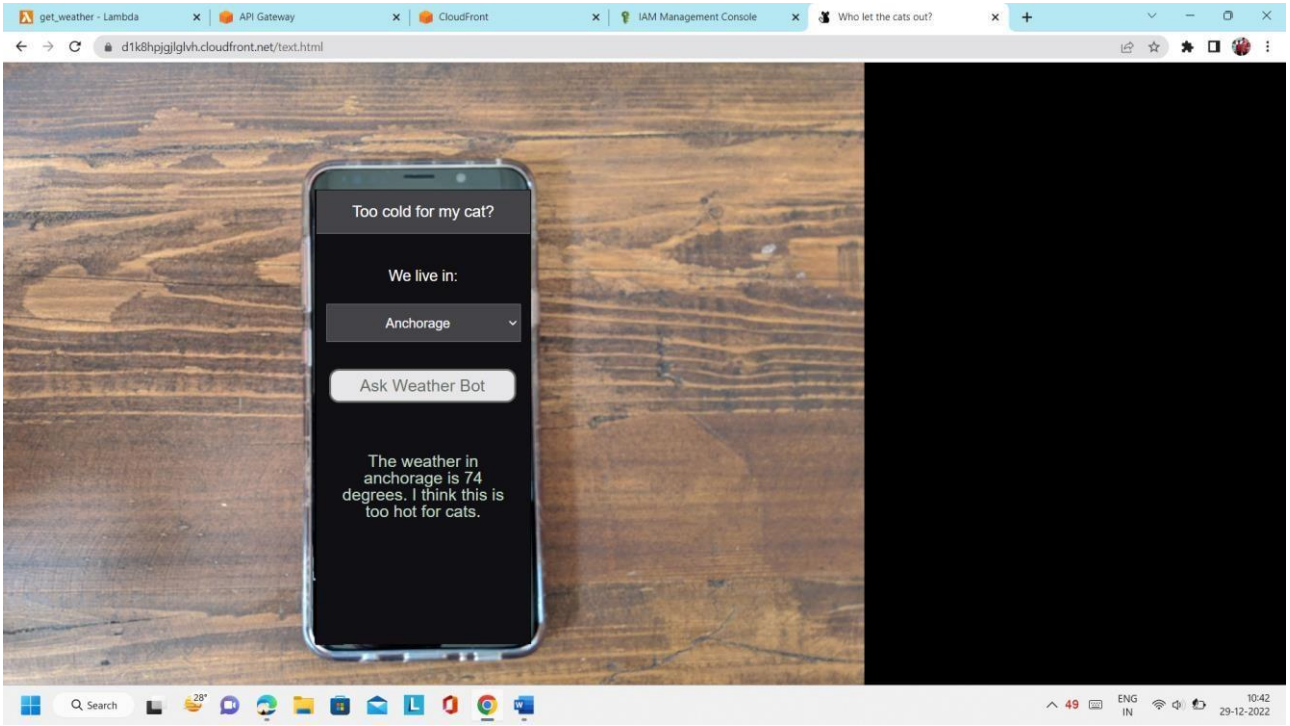
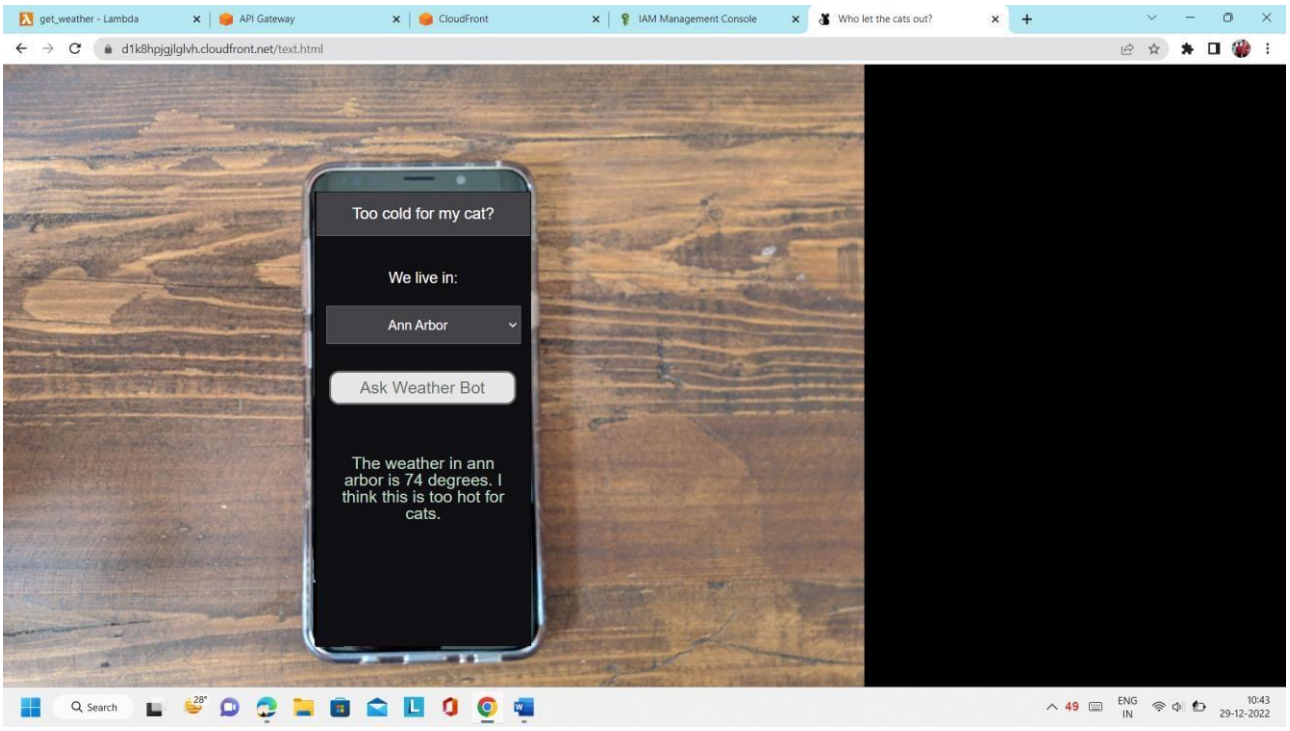




https://d1k8hpjgjlglvh.cloudfront.net/text.html


get_weather - Lambda
API Gateway
CloudFront
IAM Management Console
Who let the cats out?
d1k8hpjgjlglvh.cloudfront.net/text.html
Too cold for my cat?
We live in:
Ann Arbor
Ask Weather Bot
The weather in ann arbor is 74 degrees. I think this is too hot for cats.
Search
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