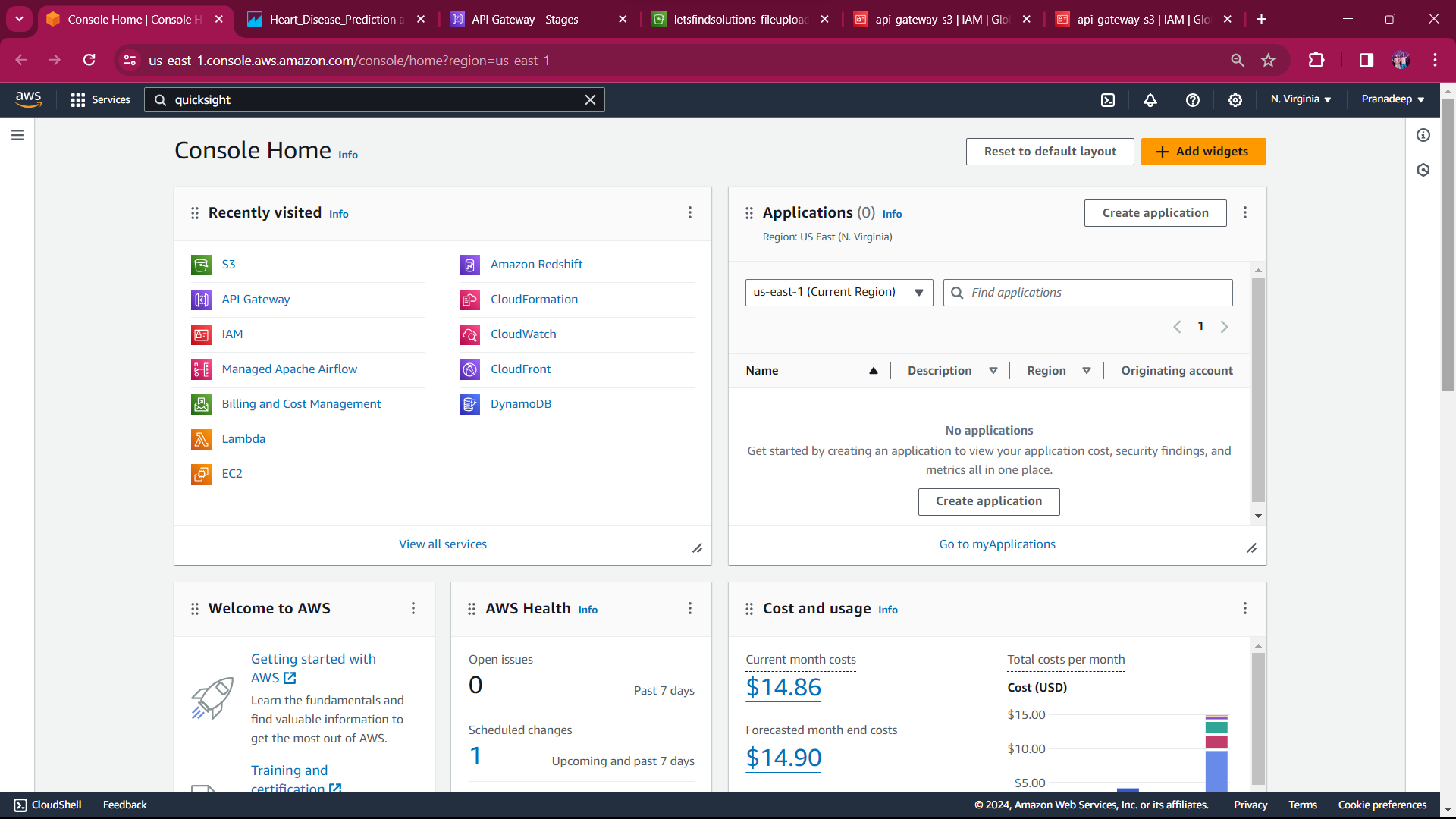
**Step:1- Open AWS MANAGEMENT CONSOLE**



**Step-2: Create a S3-bucket**

A screenshot of a computer

Description automatically generated

**Step:3- Create a Role**

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Description automatically generated

**Step:4- Create S3-bucket-policy and attach it through Attached policy**

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Description automatically generated

**Step:5- Create an API GATEWAY**

A screenshot of a computer

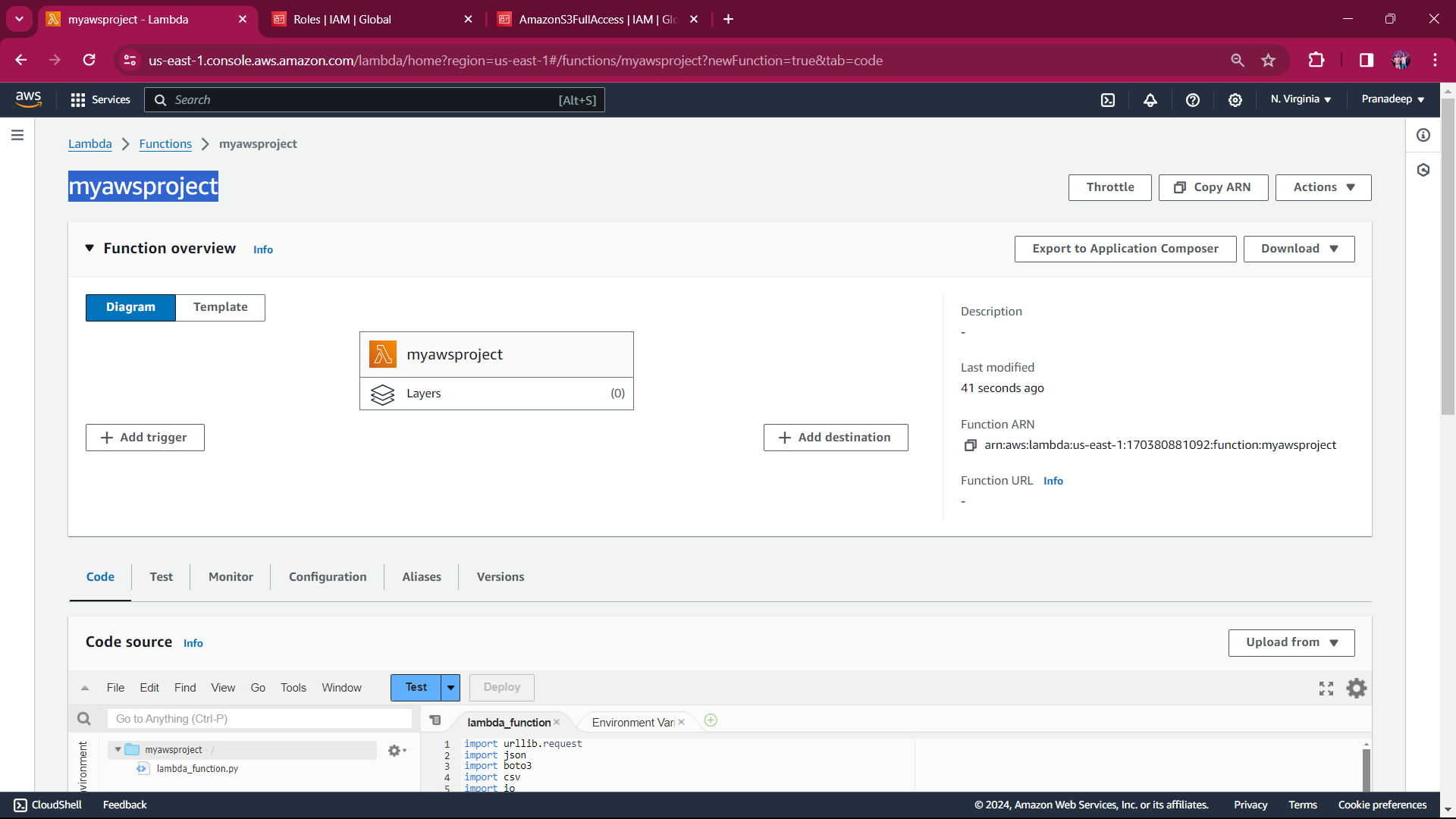
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**Step:6-Open POSTMAN and use Invoke url**

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Description automatically generated

**Step:7-Create an AWS LAMBDA**



A screenshot of a computer

Description automatically generated

**Step:8- Use this Code**

import urllib.request

import json

import boto3

import csv

import io

def json\_to\_csv(json\_data):

# Extract column names dynamically from JSON keys

headers = list(json\_data.keys())

csv\_data = [headers]

# Extract values corresponding to each column

values = [str(json\_data.get(header, '')) for header in headers]

csv\_data.append(values)

return csv\_data

def fetch\_json\_data(api\_endpoint):

with urllib.request.urlopen(api\_endpoint) as response:

data = json.loads(response.read().decode('utf-8'))

return data

def lambda\_handler(event, context):

try:

# Define API endpoint

api\_endpoint = "https://www.alphavantage.co/query?function=TIME\_SERIES\_MONTHLY&symbol=IBM&apikey=demo&datatype"

# Fetch data from the API

data = fetch\_json\_data(api\_endpoint)

# Convert JSON to CSV

csv\_data = json\_to\_csv(data)

# Connect to S3

s3 = boto3.client('s3')

# Upload CSV data to S3

bucketname = ''

file\_name = 'data.csv' # Change file name as needed

csv\_buffer = io.StringIO()

csv\_writer = csv.writer(csv\_buffer)

csv\_writer.writerows(csv\_data)

s3.put\_object(Bucket=bucketname, Key=file\_name, Body=csv\_buffer.getvalue())

return {

'statusCode': 200,

'body': json.dumps('Data uploaded to S3 successfully!')

}

except Exception as e:

# Handle any exceptions that might occur

return {

'statusCode': 500,

'body': json.dumps(f'Error: {str(e)}')

}

**Step:9-Use Amazon Quicksight for visualisation**

**Output:**

A screenshot of a computer

Description automatically generated