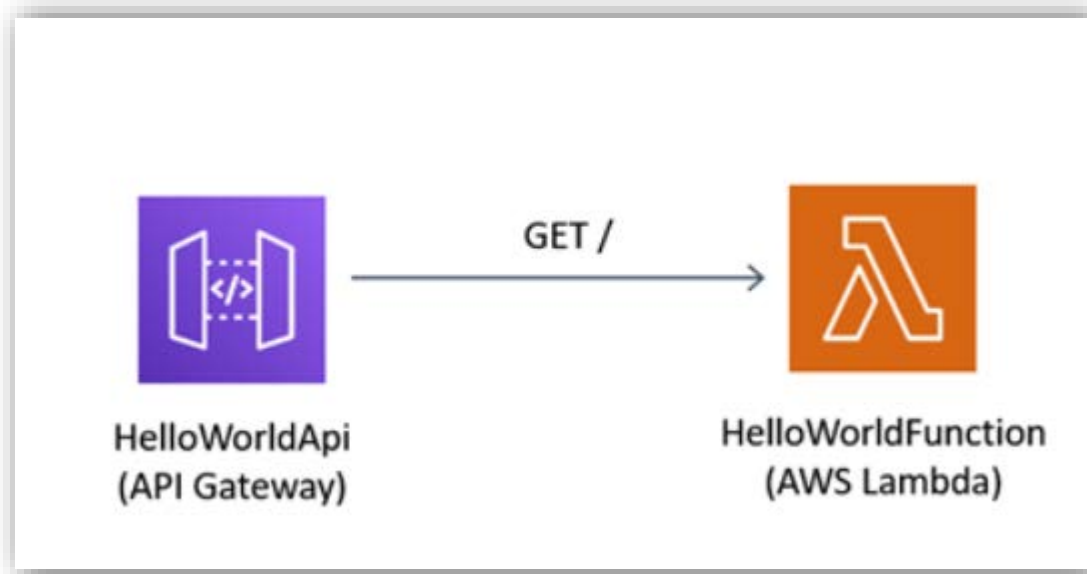


Assignment 8

Ques : Explain the below aws architecture diagram in detail, also deploy the same aws architecture.

- For this assignment you need to take a look and study the documentation for SAM CLI, you need to deploy a Hello, World application on aws lambda.
- Make sure when you test the lambda url it will respond as Hello, World.



Soln:

In the above architecture, we need to deploy and test a simple "Hello World" application using the AWS Serverless Application Model (SAM). The application is a basic API backend that consists of an Amazon API Gateway endpoint and an AWS Lambda function. When a GET request is sent to the API Gateway endpoint, the Lambda function is invoked, which returns a "Hello World" message.

In Order to implement the above architecture we need to perform the below steps:

1) Configure "aws cli" in your systems

2)Then follow this document to install "aws sam cli" :

<https://docs.aws.amazon.com/serverless-application-model/latest/developerguide/install-sam-cli.html>

3)Now follow this below document :

<https://docs.aws.amazon.com/serverless-application-model/latest/developerguide/serverless-getting-started-hello-world.html>

Below are the sample steps and screenshots and outputs:

Created cloudformation stack through cli:

CloudFormation console showing the 'sam-app-test' stack. The stack is in the 'CREATE_COMPLETE' state. The 'Outputs' tab displays the following information:

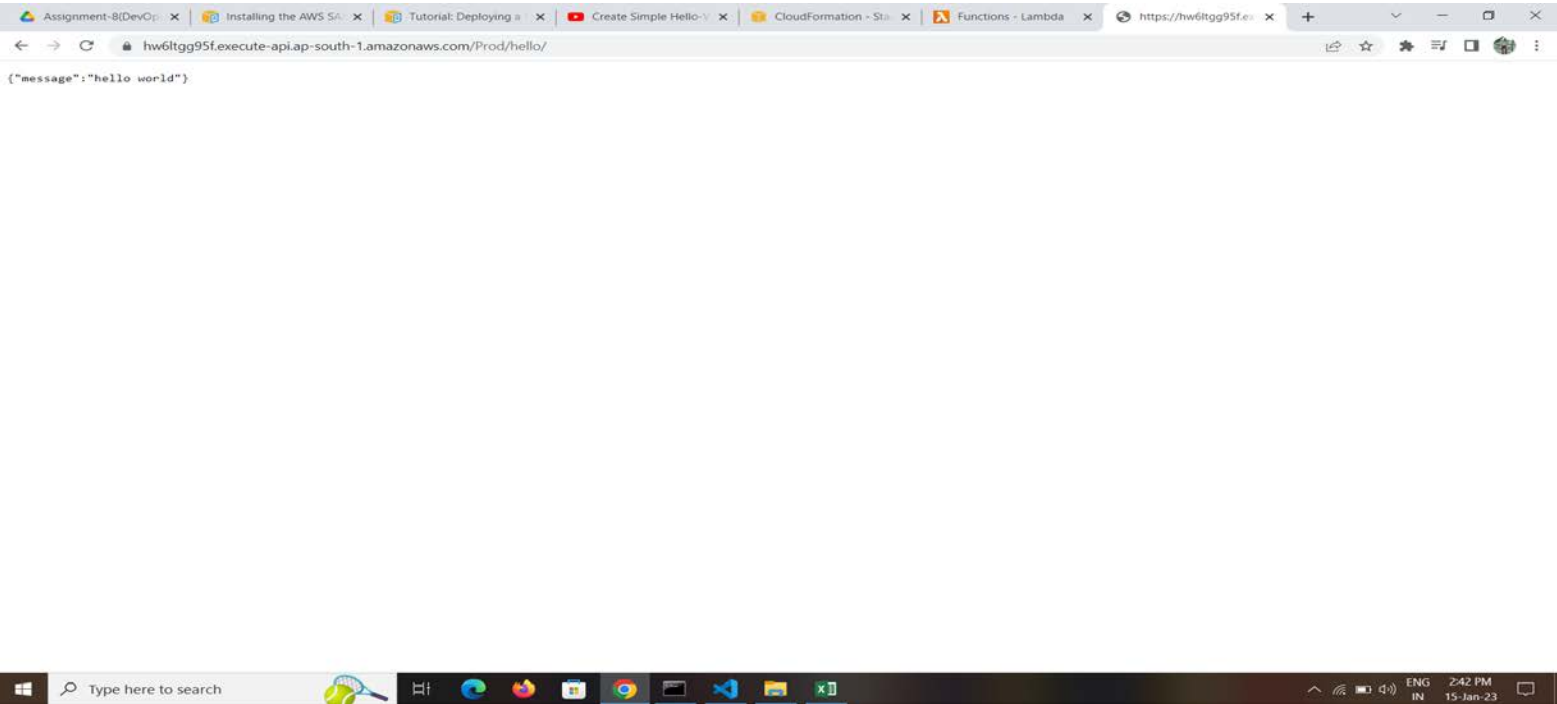
| Key | Value | Description | Export name |
|---------------------------|---|--|-------------|
| HelloWorldApi | https://hw6ltgg95f.execute-api.ap-south-1.amazonaws.com/Prod/hello/ | API Gateway endpoint URL for Prod stage for Hello World function | - |
| HelloWorldFunction | arn:aws:lambda:ap-south-1:685418332193:function:sam-app-test-HelloWorldFunction-ZRQyGNaYq1Yg | Hello World Lambda Function ARN | - |
| HelloWorldFunctionIamRole | arn:aws:iam::685418332193:role/sam-app-test-HelloWorldFunctionRole-HCT9RRVCVKB7 | Implicit IAM Role created for Hello World function | - |

Lambda function which is created:

Lambda console showing the 'sam-app-test-HelloWorldFunction-ZRQyGNaYq1Yg' function. The function is in the 'Created' state. The 'Details' tab displays the following information:

| Function name | Description | Package type | Runtime | Last modified |
|--|-------------|--------------|--------------|---------------|
| sam-app-test-HelloWorldFunction-ZRQyGNaYq1Yg | - | Zip | Node.js 12.x | 7 minutes ago |

Output:



Checking output via curl command:

