

## DevOps -2022-b-online

## BY MOHAMMED EID ©

- Name: LambdaDevOps
- Runtime: Python 3.9
- Create the SAM application in the local system.

Take the Lambda DevOps topics code and test it locally using AWS SAM.

```
devops@devops-VirtualBox:~/Desktop/sam-aws$ sam init
You can preselect a particular runtime or package type when using the `sam init` experience.
Call `sam init --help` to learn more.
Which template source would you like to use?
        1 - AWS Quick Start Templates
        2 - Custom Template Location
Choice: 1
Choose an AWS Quick Start application template
        1 - Hello World Example
        2 - Multi-step workflow
        3 - Serverless API
        4 - Scheduled task
        5 - Standalone function
        6 - Data processing
        7 - Infrastructure event management
        8 - Machine Learning
Template: 1
Use the most popular runtime and package type? (Python and zip) [y/N]: N
Which runtime would you like to use?
         1 - dotnet6
         2 - dotnet5.0
         3 - dotnetcore3.1
         4 - go1.x
         5 - graalvm.java11 (provided.al2)6 - graalvm.java17 (provided.al2)
         7 - java11
8 - java8.al2
9 - java8
10 - nodejs16.x
11 - nodejs14.x
         12 - nodejs12.x
         13 - python3.9
         14 - python3.8
         15 - python3.7
         16 - python3.6
         17 - ruby2.7
18 - rust (provided.al2)
Runtime: 13
What package type would you like to use?
         1 - Zip
2 - Image
Package type: 1
Based on your selections, the only dependency manager available is pip.
We will proceed copying the template using pip.
Would you like to enable X-Ray tracing on the function(s) in your application? [y/N]: N
Project name [sam-app]: LambdaDevOps
Cloning from https://github.com/aws/aws-sam-cli-app-templates (process may take a moment)
    Generating application:
    Name: LambdaDevOps
    Runtime: python3.9
    Architectures: x86_64
    Dependency Manager: pip
    Application Template: hello-world
    Output Directory: .
```

```
devops@devops-VirtualBox:~/Desktop/sam-aws$ ls
LambdaDevOps
devops@devops-VirtualBox:~/Desktop/sam-aws$ code LambdaDevOps/
```

```
EXPLORER
                                            app.py

∨ LAMBDADEVOPS

                                  hello_world > ♦ app.py > ...
 > events

√ hello_world

                                        def lambda_handler(event, context):
 init_.py
  🅏 арр.ру
                                          statusCode = 200

    □ requirements.txt

                                             "statusCode": statusCode,
                                             "body": json.dumps(["ansible", "jenkins", "docker", "k8s"]),
 __init__.py
 gitignore
(i) README.md
 ! template.yaml
```

Now deploy the application to the lambda function and access the application by invoking the newly created API.

```
devogaderops-VirtualBox: Institution and Interpt/127.0.0.1:19764/Pelto [CET]
You can now browse to the above endpoints to invoke your functions. You do not need to restart/reload SAM CLI while working on your functions, changes will be reflected instantly/automatically. You only need to restart SAM CLI If you update your AMS SAM template
2022.0-0-80 01:50:25 * Running on http://127.0.0.1:9764/ (Press CTRL+C to quit)
2022.0-0-80 01:50:25 * Running on http://127.0.0.1:9764/ (Press CTRL+C to quit)
2022.0-0-80 01:50:25 * Running on http://127.0.0.1:9764/ (Press CTRL+C to quit)
2022.0-0-80 01:50:25 * Running on http://127.0.0.1:9764/ (Press CTRL+C to quit)
2022.0-0-80 01:50:25 * Running on http://127.0.0.1:9764/ (Press CTRL+C to quit)
2022.0-0-80 01:50:94 127.0.0.1 - [cell) public verified in the pression of the pression of
```



## Show the logs in cloudwatch of the new invocations.

