

Lesson 08 Demo 03

Creating a Serverless Web App

Objective: To create a serverless web application on the Amazon Web Services (AWS)

platform

Tools required: AWS WorkSpaces

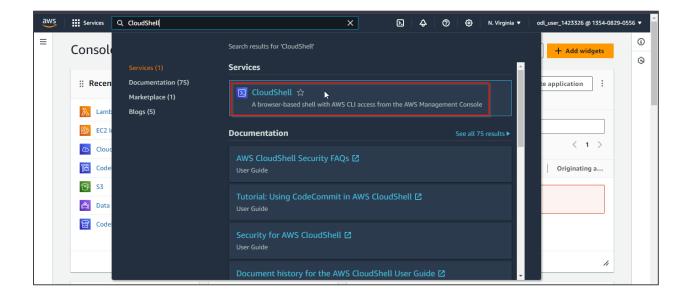
Prerequisites: None

Steps to be followed:

1. Develop a serverless web application

Step 1: Develop a serverless web application

1.1 On the AWS portal home screen, search for and select CloudShell





1.2 In the CloudShell, use the following command:

sam init

1.3 Choose option 1 for the AWS Quick Start Templates

```
Us-east-1 +

[cloudshell-user@ip-10-136-46-27 -]$ sam init

SAM CLI now collects telemetry to better understand customer needs.

You can OPT OUT and disable telemetry collection by setting the environment variable SAM_CLI_TELEMETRY=0 in your shell.

Thanks for your help!

Learn More: https://docs.aws.amazon.com/serverless-application-model/latest/developerguide/serverless-sam-telemetry.html

You can preselect a particular runtime or package type when using the `sam init` experience.

Gall `sam init --help` to learn more.

Which template source would you like to use?

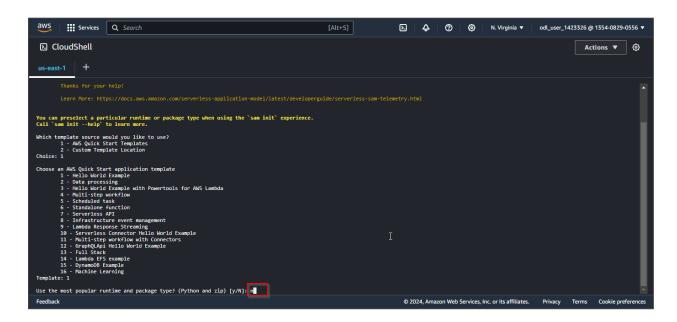
1 - MS Quick Start Template

Choice: 1
```



1.4 Select option 1 for the Hello World Example template

1.5 Enter **n** for Python and the zip package



Opt for the non-zipped package and choose Python when prompted.



1.6 Set the runtime to Python 3.9 (Choose 15)

```
| Services | Q. | Search | California | Cal
```

1.7 Choose package type 1, which is Zip



1.8 Enable X-ray tracing by entering y

1.9 Disable CloudWatch monitoring by entering ${\bf N}$

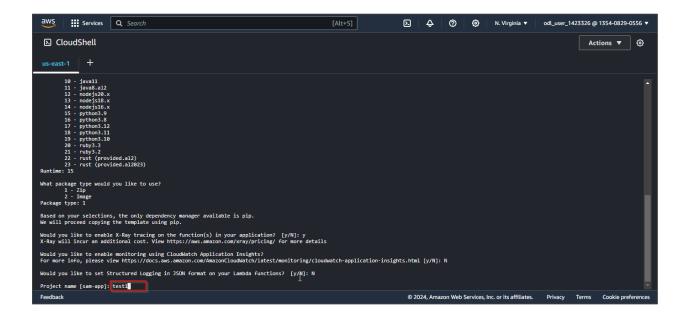
```
Us-east-1 +

6 - graalum_javal1 (provided_al2)
7 - graalum_javal1 (provided_al2)
9 - javal1
10 - javalan_javal1 (provided_al2)
11 - javalan_javal1 (provided_al2)
12 - nodejs20, x
13 - nodejs20, x
14 - nodejs20, x
15 - nodejs20, x
16 - python1, 8
17 - python3, 8
17 - python3, 11
19 - python4, 10
20 - rubyl, 3
21 - rust (provided_al2)
22 - rust (provided_al2)
33 - rust (provided_al2)
45 - rust (provided_al2)
46 - python3, 10
47 - python3, 10
48 - python4, 10
49 - python5, 10
40 -
```



1.10 Disable Structured Logging by entering N

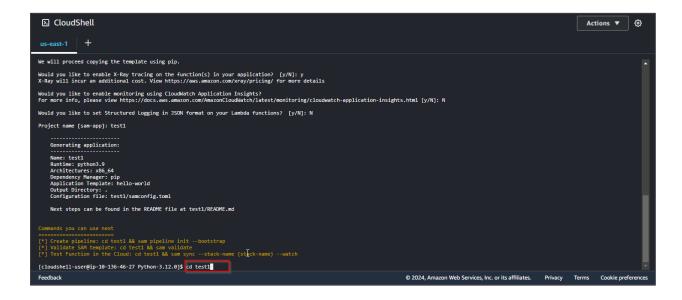
1.11 Enter test1 as the Project name (the default is sam-app)





1.12 Run the below command:

cd test1



1.13 Now, run the below command to build the project:

sam build

```
CloudShell

### Mould you like to enable X-Ray tracing on the function(s) in your application? [y/N]: y
X-Ray will incur an additional cost. View https://ass.amazon.com/ravy/pricing/ for more details

### Mould you like to enable monitoring using CloudMatch Application Insights.

### Mould you like to enable monitoring using CloudMatch Application Insights?

### Froyect name [sam-app]: testi |
### Mould you like to set Structured logging in 350N format on your Lambda functions? [y/N]: N

### Project name [sam-app]: testi

### Generating application:

### Manne: testi
### Runtiase: python3.9
### Architectures: x88_56
### Dependency Manager: philo-world
### Author of the python3.9
### Architectures: x88_56
### Dependency Manager: philo-world
### Author of the testi/Amazonfig.toml
### Next steps can be found in the README file at testi/README.ad

### Commands you can use next
### Commands you ca
```



```
## Next steps can be found in the README file at test1/README.ad

Commands you can use next

[2] Create gipeliner cd test1 &S can pipeline init --bootstrap

[3] Validate SMM required cd test1 &S can pipeline init --bootstrap

[4] Validate SMM required cd test1 &S can pipeline init --bootstrap

[5] Validate SMM required cd test1 &S can pipeline init --bootstrap

[6] Validate SMM required cd test1 &S can pipeline init --bootstrap

[7] Validate SMM required cd test1 &S can pipeline init --bootstrap

[8] Validate SMM required cd test1 &S can pipeline init --bootstrap

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[5] Validate Commands Validate

[6] Validate Commands Validate

[7] Validate SMM required can validate

[8] Validate SMM required can validate

[9] Val
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The build is successful.

1.14 Execute the command below and provide the values as shown in the screenshot:

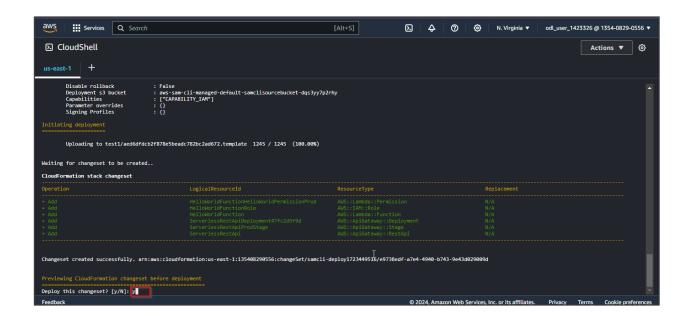
sam deploy --guided

```
Commands you can use next

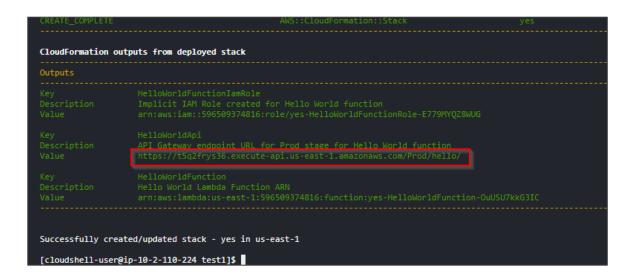
**Commands you can
```



1.15 Confirm the deployment of the changeset by entering y



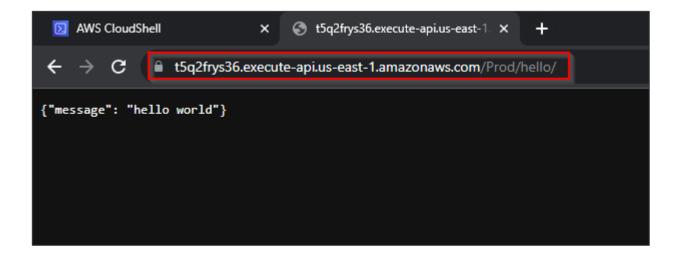
1.16 Copy the URL from the Outputs field, specifically the Value of HelloWorldApi





1.17 Open a new browser tab and paste the URL to access the output:

https://t5q2frys36.execute-api.us-east-1.amazonaws.com/Prod/hello/



By following these steps, you have successfully created a serverless web application on AWS.