

Serverless deployment requires serverless.yaml file. The template for user-service is provided here.

Template

```
service: user-service
frameworkVersion: '3'

package:
  patterns:
    - '!.**/**'

provider:
  name: aws
  runtime: python3.9
  region: eu-north-1
  iamManagedPolicies:
    - "arn:aws:iam::<<aws-account-id>>:policy/UserServiceReadSecrets"

functions:
  registration:
    handler:
src.integration.user_controller.registration_handler
    events:
      - http:
          path: user/register
          method: post
          integration: lambda-proxy
          cors: true

plugins:
  - serverless-wsgi
  - serverless-python-requirements
```

Install npm on your machine

```
brew install npm
```

Install serverless framework

```
npm -g install serverless
```

Configure AWS CLI on your machine

<https://docs.aws.amazon.com/cli/latest/userguide/getting-started-quickstart.html>

Extract python dependencies

Every dependency your python project needs, must be installed using pip/pip3 inside your .venv directory

Navigate to your virtual environment directory:

```
cd .venv
```

Install Serverless requirement package manager

```
serverless-python-requirements
```

Extract dependencies:

```
pip freeze > requirements.txt
```

This creates a requirements.tx file in your project root.

Deploy Lambda Function

```
serverless deploy
```

You can continue doing any changes to your code base and deploy again using `serverless deploy`.

If any dependency is to be added, then follow below steps:

Install new dependency

In your .venv install new dependency, suing pip/pip3:

```
pip3 install <<new library>>
```

Update requirements.txt

Execute in your .venv:

```
`pip freeze > requirements.txt
```

Deploy Lambda again

```
serverless deploy
```

Head over to <https://eu-north-1.console.aws.amazon.com/lambda/home?region=eu-north-1#/functions> to see your Lambda function deployed.

Destroy Lambda Function

Do not delete your lambda functions directly from AWS Console, please use Serverless to delete the complete resources for you.

```
serverless remove
```