

# DevOps Kitchen Workshop

## AWS Boto3 - Python to Terraform

### #week\_nineteen - Boto3 SDK [🔗](#)

**duration: 1 week**

ForgTech company wanna test your ability to deliver their requirements utilizing Python, This will help you build a good reputation. The purpose of this task is to build a CLI tool using Python/Boto3 calls that create terraform code for AWS resources.

The FrogTech Cloud Team requests you to implement local Python scripts with AWS Boto3 SDK that meet the following requirements:

1. List the `us-east-1` region VPCs.
2. Create a Terraform file that contains the required details to create the fetchd VPCs.
3. Consider using function-based:
  - a. List functions under `utils` directory.

```
1  utils
2  |__ function.py
3  |__ function2.py
4  main.py
```

- b. A function does one thing only.
  - c. List related functions in the same file.
4. Consider using the main file to call all the functions and handle their dependencies.
  5. Consider docstring and type hint.
  6. Consider following the Python PEP code standardization (i.e. by installing vscode extensions like *pylint*, *Black*)

As well as build a Readme file explaining what your tool is doing and how to use it.

### Bonus [🔗](#)

1. Read about [MkDocs](#).

### References: [🔗](#)

- [Boto3 Docs](#)
- [PEP 257 – Docstring Conventions | peps.python.org](#)

- [G styleguide](#)
- [typehint](#)