

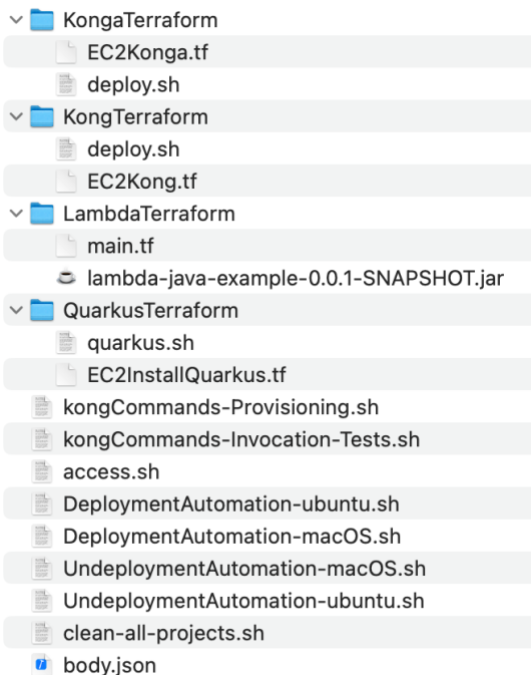
Managing a Kong environment

The purpose of this integration scenario is to illustrate the deployment, the management, and the testing of the Kong API gateway. To that end, a set of scripts were prepared for (i) your understanding, (ii) simplifying the deployment, and (iii) serving as an example for your own project development. The provided scripts perform the Kong and Konga environment deployment + Lambda service deployment + Quarkus service deployment.

To deploy this integration scenario, first deploy scenario 1, and then the following plan:

	Project task description	Support tool	Type of activity
1	Deploy the environment setup with the script "DeploymentAutomation*.sh"	Terraform	Deploy
2	Check the script "kongCommands.sh" for environment setup with the configuration of the new environment from step 1	VS Code	Configure
3	Execute Kong commands for provisioning	Command line	Configure
4	Test the Kong endpoints	CURL or POSTMAN	Test
5	Undeploy the environment setup with the script "UndeploymentAutomation*.sh"	Terraform	Deploy

For your learning purposes, you can find the required artifacts already available in the following folders in a zip file, accordingly with this organization:



To test it, all you must do is to change for the configuration to your own environment, at the following locations:

- **/access.sh**

```

aws_access_key_id="YOUR AWS ACCESS KEY"
aws_secret_access_key="YOUR AWS SECRET KEY"
aws_session_token="YOUR AWS TOKEN"
awsAccountID="YOUR AWS AccountID"
bucketName="YOUR bucket name"
yourDockerUsername="YOUR docker username"
yourDockerPassword="YOUR docker password"
yourDockerImage="YOUR docker Image to deploy"
yourDockerImageVersion="YOUR docker image version to deploy"
  
```

- Execute the **/DeploymentAutomation-macOS.sh** or **/DeploymentAutomation-ubuntu.sh** accordingly with your target operating system
- Then, the endpoints will be used. For that, execute the file containing the commands for provisioning Kong API Gateway at **/kongCommands-Provisioning.sh**, then test them with **/kongCommands-Invocation-Tests.sh**.

Finally, for playing and debugging you may use the CURL or POSTMAN. Konga is also available to check the Kong configuration.