Project 8: AWS Elastic Beanstalk

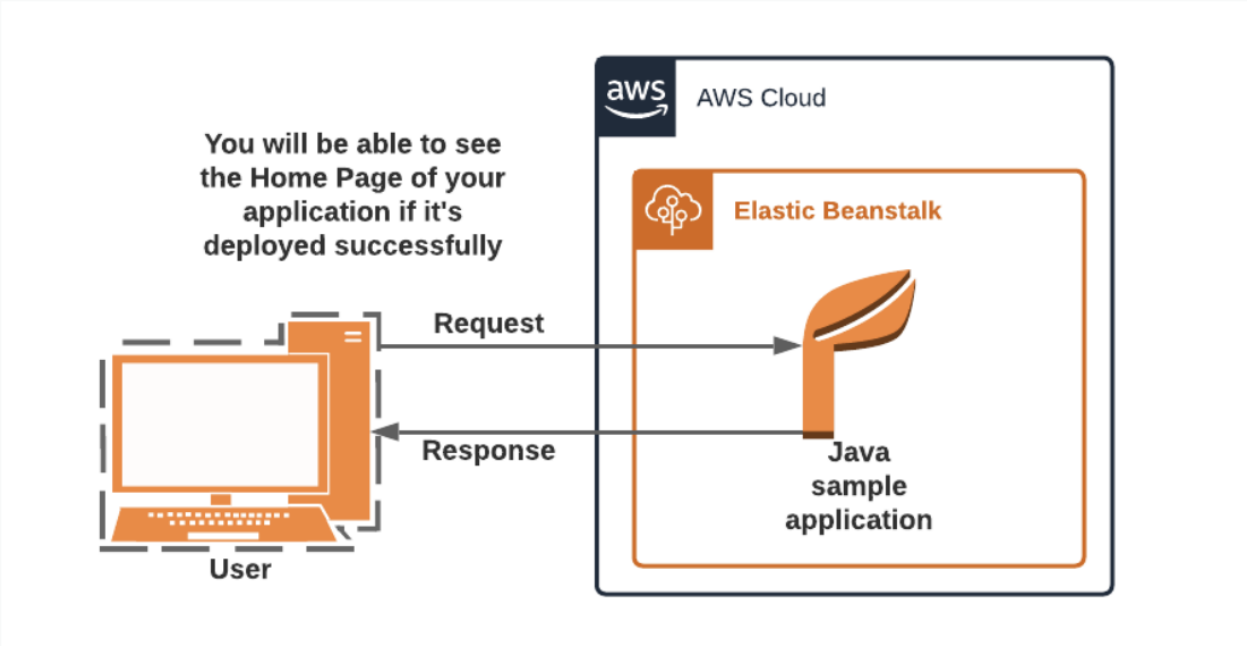
What is AWS Elastic Beanstalk?

- AWS Elastic Beanstalk is an easy-to-use service for deploying and scaling web applications and services developed with Java, NET, PHP, Node.js, Python, Ruby, Go, and Docker on familiar services such as Apache, Nginx, Passenger, and IIS.
- You can simply upload your code and Elastic Beanstalk automatically handles the deployment, from capacity provisioning, load balancing, auto-scaling to application health monitoring. At the same time, you retain full control over the AWS resources powering your application and can access the underlying resources at any time.

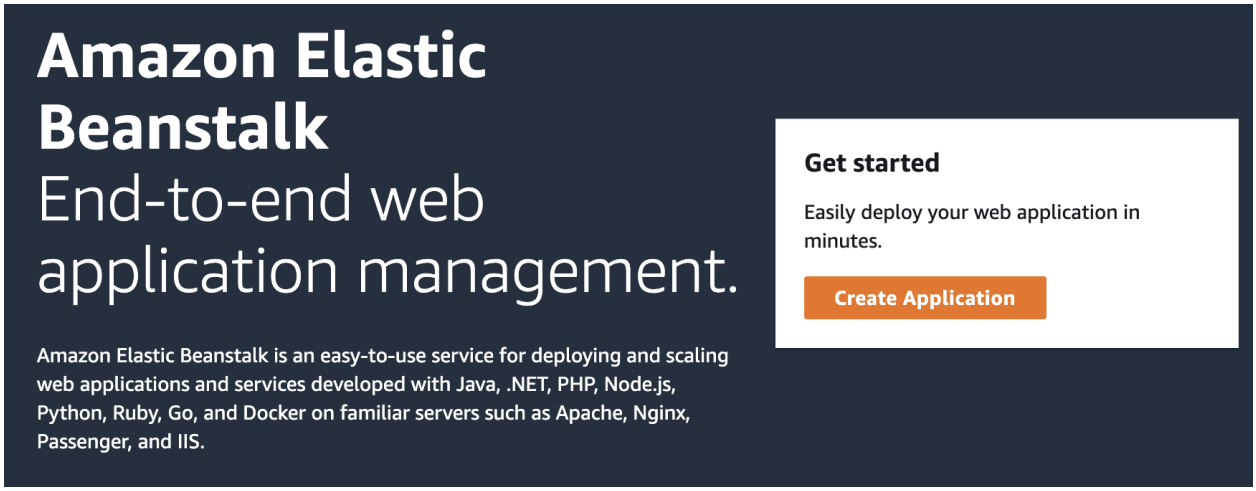
Objective of this project:

- We will be quickly deploying and managing a Java application in the AWS Cloud without worrying about the infrastructure that runs those applications.

Architecture Diagram



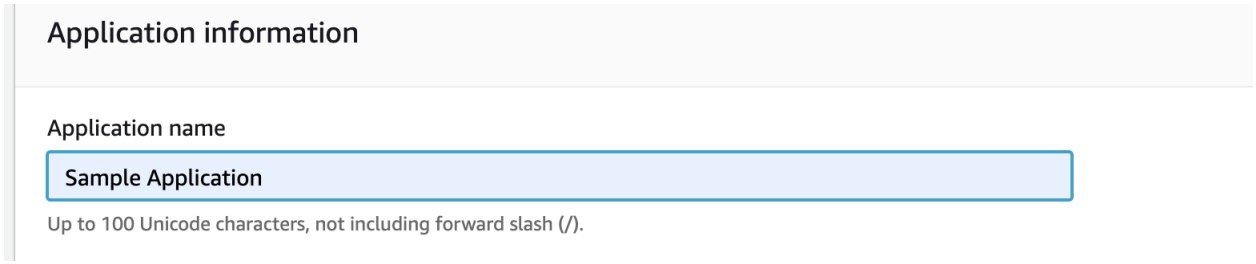
Step 1: Navigate to Elastic Beanstalk and to the Application Section

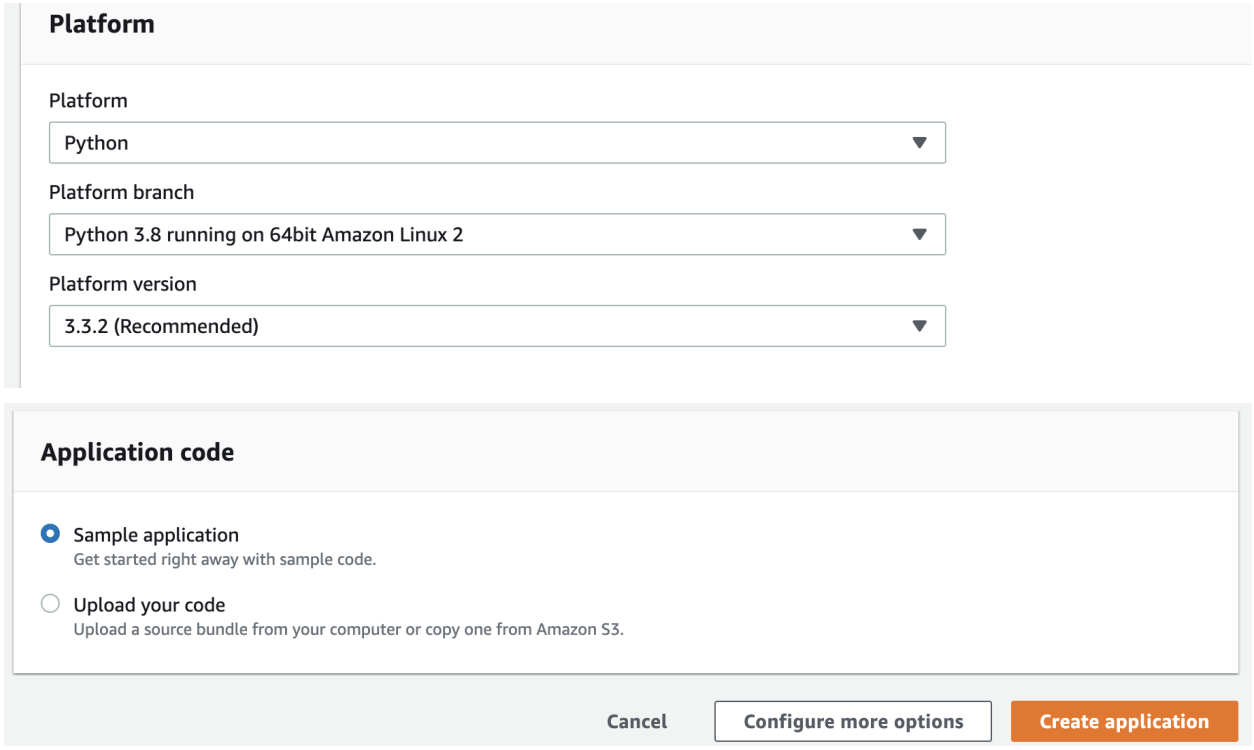


Step 2: Create an Application

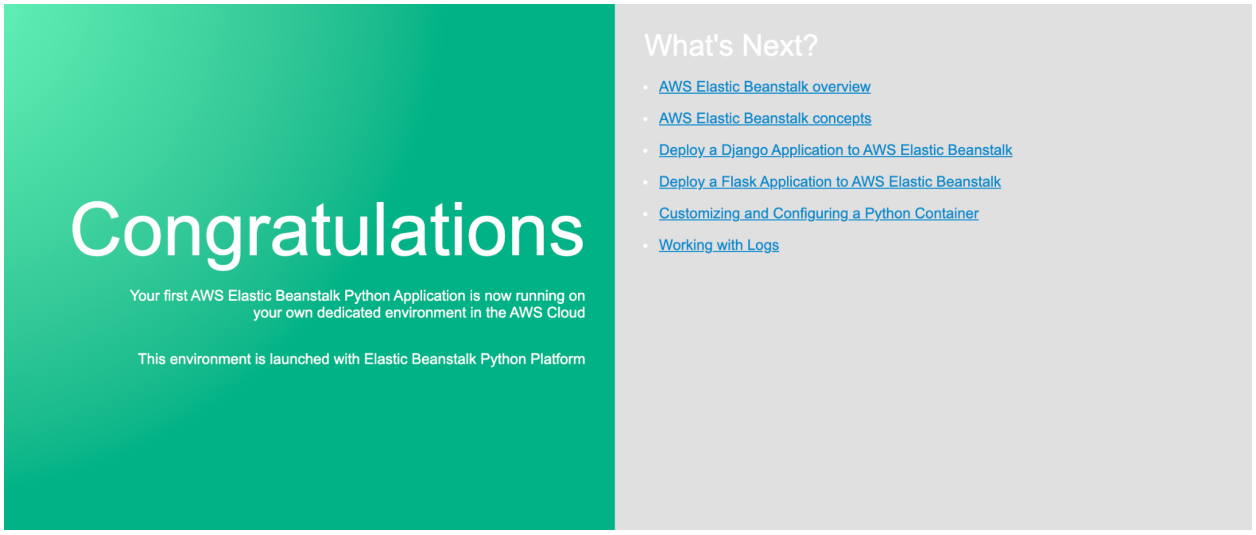
- With this section, we create a new application and environment with a sample application or your own code. With this you create an environment that can allow Elastic Beanstalk to manage Amazon Web resources and services on your behalf.

We will call this Sample Application and using the Python Platform.





Step 3: Test the Application to See if it's working



Sampleapplication-env

Sampleapplication-env.eba-ybwgxwnu.us-east-1.elasticbeanstalk.com (e-qgpyajk9n2)

Application name: **Sample Application**

Refresh | Actions

Health	Running version	Platform
Ok	Sample Application	Python 3.8 running on 64bit Amazon Linux 2/3.3.2
Causes	Upload and deploy	Change