==========
Dyanmic Website Deployment Process
==========

1) Create Network (VPC)

2) Create Security Groups

3) Enable Inbound Rules to allow the traffic

4) Create EC2 Instances (virtual servers)

5) Install Required Softwares to run the code

        Ex: java, tomcat, python, IIS

6) Create Load Balancer

7) Deploy application

Note: When we use "AWS Elastic Bean stack" service then first 6 steps will be taken by Elastic Bean stack. We are responsible for only application deployment.

==========
Elastic Beanstack
==========

=> End to end web application management service.

=> It provides platform as a service (PaaS).

=> AWS will provide ready made platform to run our application when we use Beanstack.

Note: Upload your code and run your application, aws will take care of infrastructure and platform to run your application.

==========
Elastic Beanstack Pricing Model
==========

=> There is no additional charge for Elastic Beanstalk.

=> We need to pay for the resources which are created by bean stack.

        Ex: S3 bucket, EC2 Vm, LBR.....

==========
Lab Task on Elastic Beanstack
==========

Step-1: Create IAM Role with below 3 policies

- AWSElasticBeanstalkMulticontainerDocker
- AWSElasticBeanstalkWebTier
- AWSElasticBeanstalkWorkerTier

Ex : Role Name : aws_bean_stack_role_1

Step-2: Create Application using Beanstack

- Web Server Env
- Platform : JAVA
- Sample Application

- EC2 instance profile : Select IAM role we have created

Note: Once environment is created it will generate DNS to access our application.

==========
Uploading Java SpringBoot Rest Api Jar file
==========

=> Take jar file of java springboot rest app

=> Go to Elastic Beanstack environment and upload your jar file and give version number for your application

Ex: v1.0

=> Go To enviornment Properties and set SERVER_PORT as 5000

Ex : SERVER_PORT = 5000

- Select Environment
- Go to Configuration
- Edit "Updates, monitoring, and logging" option
- Set Environment Property and apply

=> After environment got re-started, we can access our application by using DNS url.

Note: This DNS url we can map to domain name using Route 53 service.