Deployment Guide for my Spring boot Application

**Deploy on EC2:**

Create an IAM role with AmazonS3FullAccess Policy

Create S3 bucket if needed

Install AWS CLI is it’s not already installed (bashscript-awscli-install.txt)

Configure AWS CLI (bashscript-awscli-configure.txt Update the script for access key id, access key and default region

Create a new EC2 instance from AWS console and copy and paste the scripts from the attached script in the User Data section under Configure Instance Details/ Advance settings (Script-For-Deploying-SpringBoot-App-On-EC2.txt Change s3 bucket name and default user name accordingly in the script)

Once EC2 instance is up and running connect to EC2 Instance

<https://docs.aws.amazon.com/quickstarts/latest/vmlaunch/step-2-connect-to-instance.html>

Copy the public DNS address of the EC2 instance and use the following url to call Spring boot app REST API

http://<EC2 Instance Public DNS address>/smlatest

Example: <http://ec2-54-183-231-116.us-west-1.compute.amazonaws.com/smlatest>

**Deploy on Lambda**

Copy demo-lambda-0.0.1-SNAPSHOT.jar to s3 bucket. (demo-lambda Spring Boot application has all the code required to deploy as lambda function)

From AWS CLI

Go to the folder where sam.yaml is located (Download all the attached files in the email)

Execute following command

aws cloudformation package --template-file sam.yaml --output-template-file ./output-sam.yaml --s3-bucket <your s3 bucket name>

aws cloudformation deploy --template-file ./output-sam.yaml --stack-name demo-lambda --capabilities CAPABILITY\_IAM

Check stack creation either from AWS Management console or execute following command in AWS CLI

aws cloudformation describe-stacks --stack-name demo-lambda

Check the Outputs section . it should have the API Gateway url

Example:

<https://625roxmhmc.execute-api.us-west-2.amazonaws.com/Prod/smlatest>

Note: Getting Internal server error response currently when testing the API gateway url on my AWS account. Probably executable Spring boot application jar is needed for lambda function to work correctly. Debugging the error to create executable jar for my Spring boot app