Elastic Beanstalk – CLI

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 servers 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.

There is **no additional charge for Elastic Beanstalk** - **you pay only for the AWS resources** needed to store and run your applications.

Duration

This lab will require approximately **40 minutes** to complete.

Accessing the AWS Management Console

⚠ **Windows Users**: Please use Chrome or Firefox as your web browser for this lab. The lab instructions are **not compatible with Internet Explorer** due to a difference in the Amazon RDS console.

Sign to the AWS Management Console using your credentials.

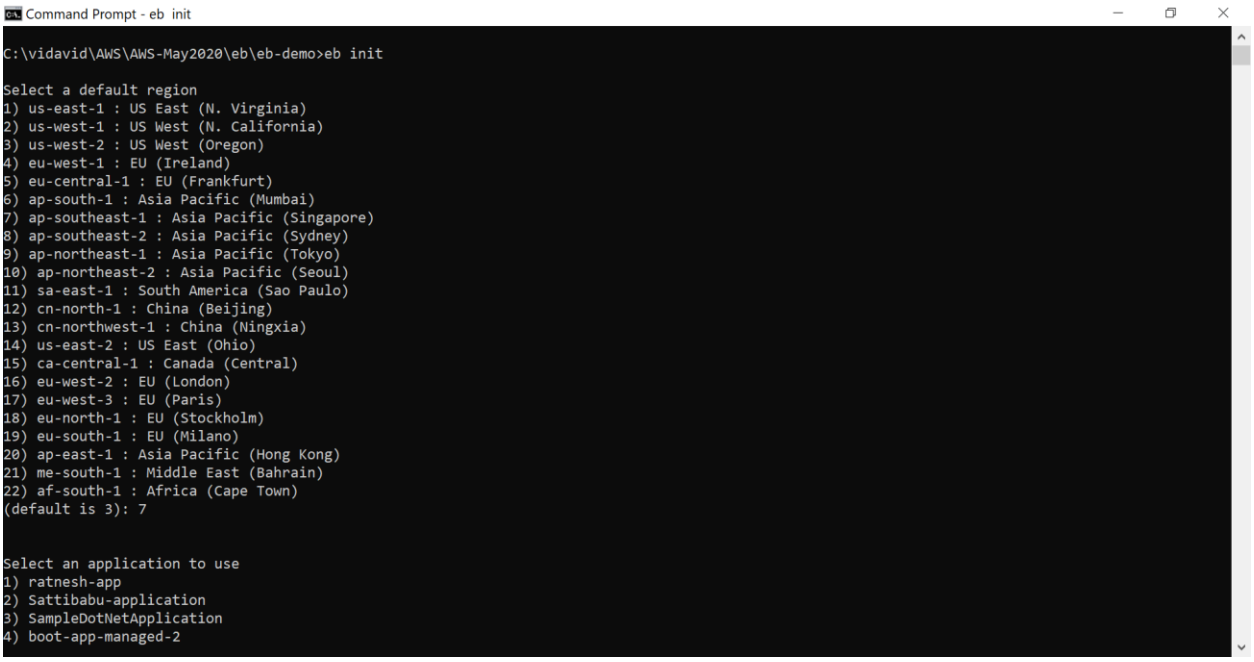
⚠ Please do not change the Region during this lab.

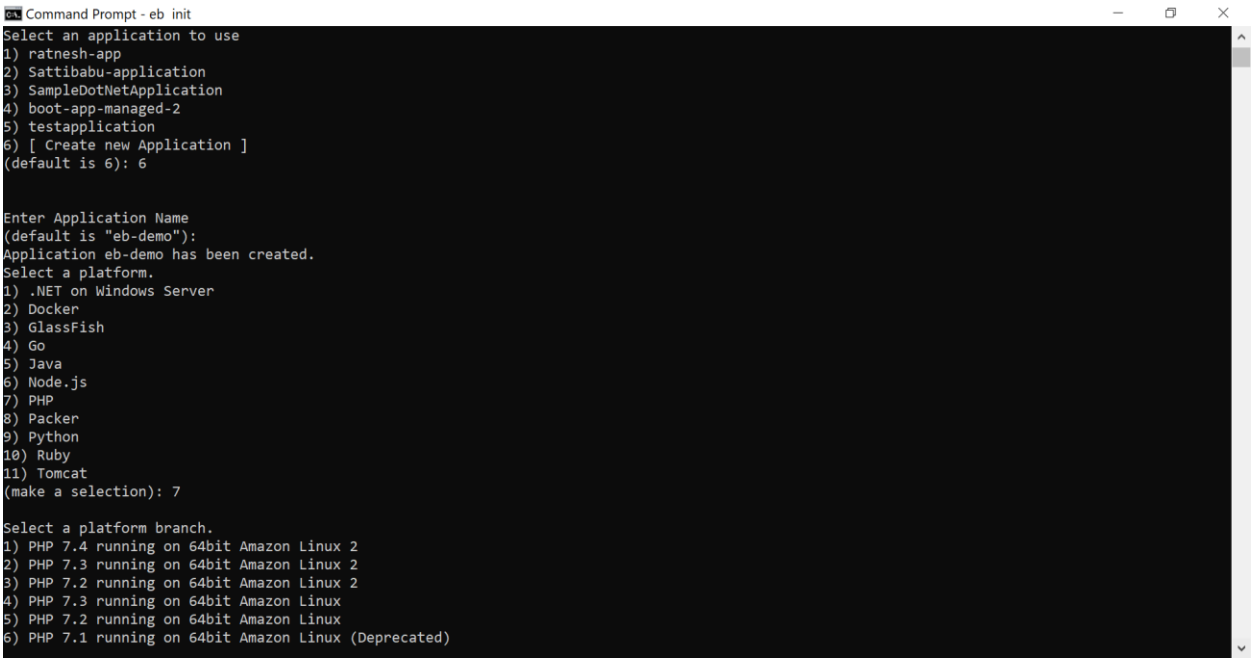
Task 1: Configure Elastic Beanstalk – CLI

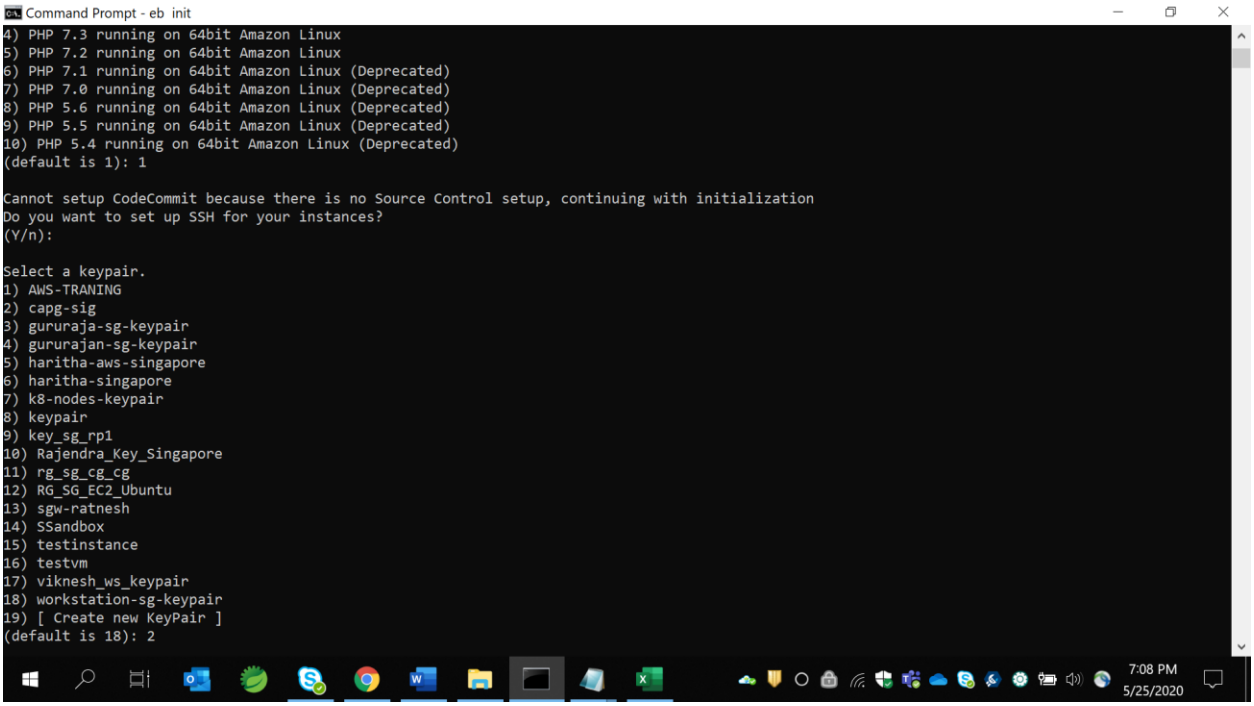
1. After installing the Elastic Beanstalk CLI successfully, Configure aws access key and secret key in CLI (Hope you have installed AWS CLI as well, if not install it first) by enter below command:
    a. **aws configure**
2. Create one directory called **eb- demo.** Open the directory.
3. Add **index.html** file in the current directory.
4. To initialize Elastic Beanstalk enter "**eb init"** in the Command prompt.
    a. Choose region
    b. Enter application Name

c. Select the platform
d. Acknowledge if you wish to use CodeCommit/ Git repository for source code.
e. Select Key pair if already exists / create new key pair.

2. Refer the below screen shots for your references:

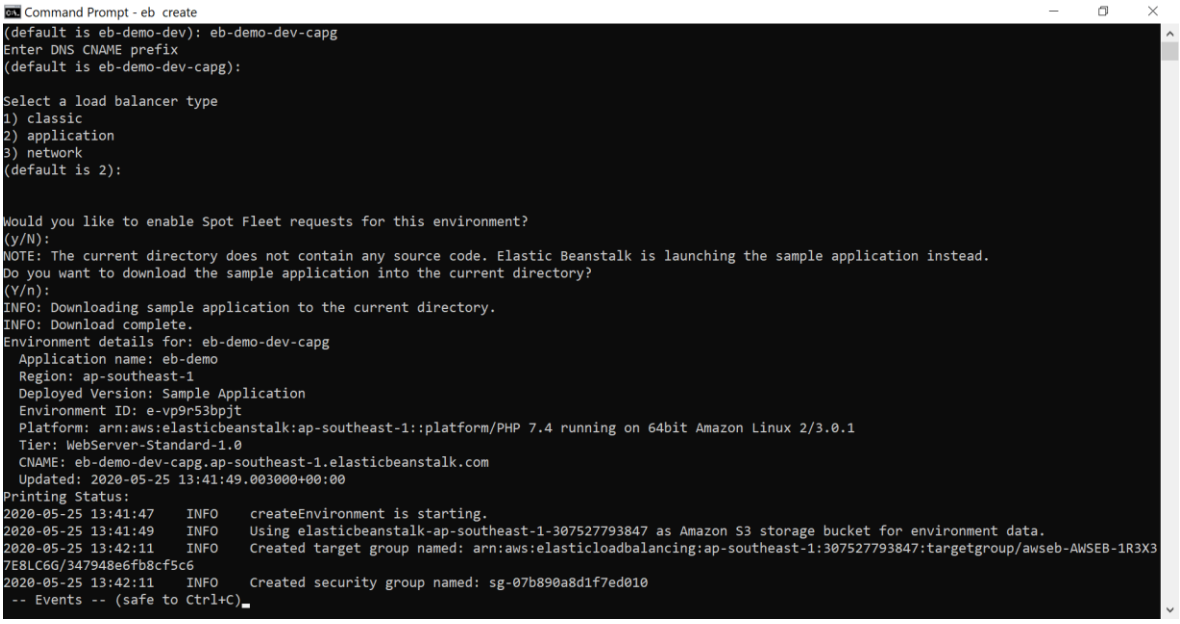





Command Prompt - eb init
4) PHP 7.3 running on 64bit Amazon Linux
5) PHP 7.2 running on 64bit Amazon Linux
6) PHP 7.1 running on 64bit Amazon Linux (Deprecated)
7) PHP 7.0 running on 64bit Amazon Linux (Deprecated)
8) PHP 5.6 running on 64bit Amazon Linux (Deprecated)
9) PHP 5.5 running on 64bit Amazon Linux (Deprecated)
10) PHP 5.4 running on 64bit Amazon Linux (Deprecated)
(default is 1): 1
Cannot setup CodeCommit because there is no Source Control setup, continuing with initialization
Do you want to set up SSH for your instances?
(Y/n):
Select a keypair.
1) AWS-TRANING
2) capg-sig
3) gururaja-sg-keypair
4) gururajan-sg-keypair
5) haritha-aws-singapore
6) haritha-singapore
7) k8-nodes-keypair
8) keypair
9) key_sg_rp1
10) Rajendra_Key_Singapore
11) rg_sg_cg_cg
12) RG_SG_EC2_Ubuntu
13) sgw-ratnesh
14) SSandbox
15) testinstance
16) testvm
17) viknesh_ws_keypair
18) workstation-sg-keypair
19) [Create new KeyPair]
(default is 18): 2
7:08 PM
5/25/2020

Task 2: Create EB environment:

1. Enter "**eb create**" command
2. Enter the name as "**eb-demo-dev-xxxx**" (**eb-demo-dev-capg**) ,it has to be unique.
3. Select the load balancer type as "**application load balancer**"
4. Confirm if you need SPOT instance, here I have not given spot, hence Reserved Instance will be created.
5. Below screen shot will help you about environment creation.



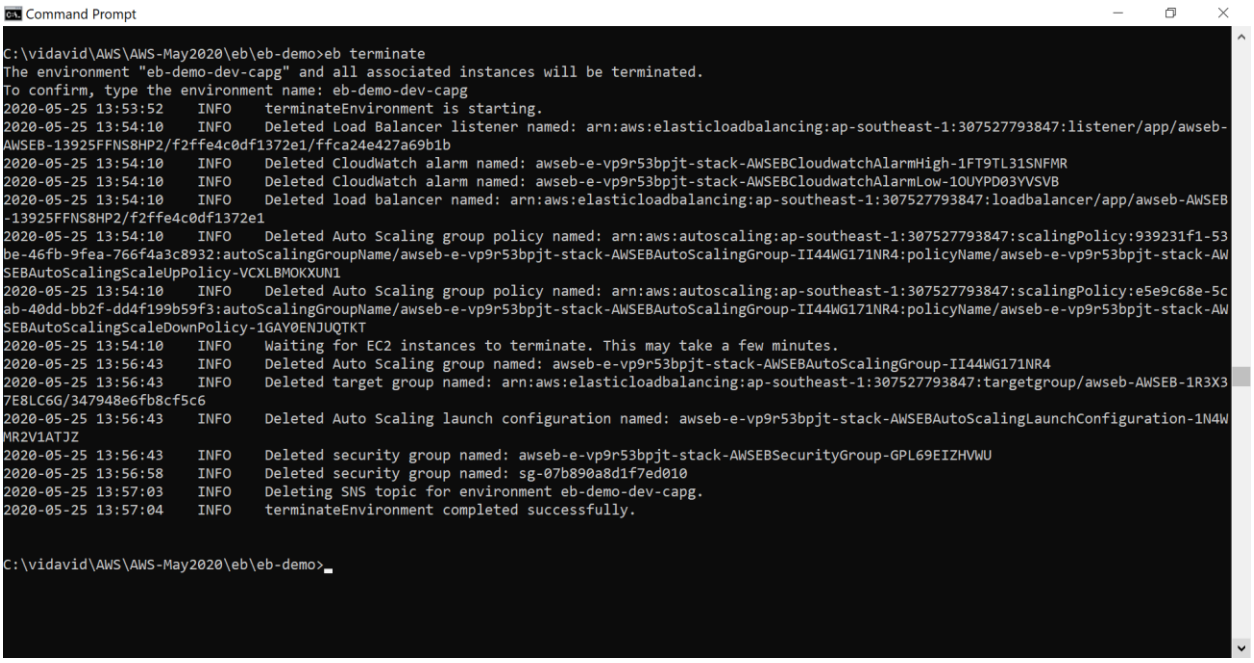
6. Now enter "**eb list**", to list all environments available under your current region.

Task 3: Update the source code and check EB environment:

1. Update your index.html file and check your environment again.
2. Check all changes reflected in the environment.

Few commands which you can try:

- eb config
- eb logs
- eb health
- eb events
- eb status
- eb open
- eb terminate



Note : *S3 bucket will not be deleted automatically, due to bucket policy. Hence go to S3 bucket, delete bucket policy and then delete bucket*.

Lab Complete

Congratulations! You have completed the lab. Clean up your lab environment.