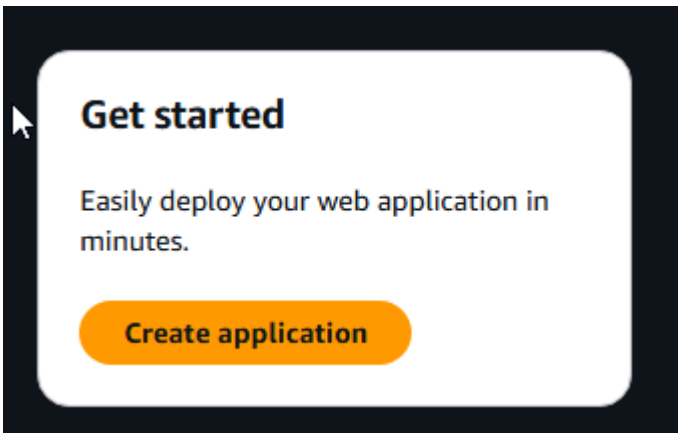
Elastic Beanstalk

Steps

1. Prepare the Zip file of the code
    a. Download the Code
    b. Unzip It
    c. Add the Experiment Title “Elastic Beanstalk” on Home Page along with your name
    d. Open package.json file in text editor
    e. Add "main": "app.js", before scripts
    f. Create a zip file of all the files in the current directory.
2. Create a Security Group
    a. Start AWS Academy Lab
    b. Go to Security Groups
    c. Create new Security Group with following ports open
        i. 22 (SSH)
        ii. 3000 (Custom TCP)
3. Create Elastic Beanstalk App
    a. Click the Create Application button and complete the 6 steps to deploy the code.



STEP 1

Step 1
Configure environment
Step 2
Configure service access
Step 3 - *optional*
Set up networking, database, and tags
Step 4 - *optional*
Configure instance traffic and scaling
Step 5 - *optional*
Configure updates, monitoring, and logging
Step 6
Review

Configure environment Info

Environment tier Info

Amazon Elastic Beanstalk has two types of environment tiers to support different types of web applications.

- (•) Web server environment
  Run a website, web application, or web API that serves HTTP requests. Learn more
- ( ) Worker environment
  Run a worker application that processes long-running workloads on demand or performs tasks on a schedule. Learn more

Application information Info

Application name

MyPortfolio

Maximum length of 100 characters.

▶ **Application tags (optional)**

Environment information Info

Choose the name, subdomain and description for your environment. These cannot be changed later.

Environment name

MyPortfolio-env

Must be from 4 to 40 characters in length. The name can contain only letters, numbers, and hyphens. It can't start or end with a hyphen. This name must be unique within a region in your account.

Domain

shibuporto .us-east-1.elasticbeanstalk.com Check availability

shibuporto.us-east-1.elasticbeanstalk.com is available

Environment description

My portfolio

Platform Info

Platform type

- (•) Managed platform
  Platforms published and maintained by Amazon Elastic Beanstalk. Learn more
- ( ) Custom platform
  Platforms created and owned by you. This option is unavailable if you have no platforms.

Platform

Node.js

Platform branch

Node.js 22 running on 64bit Amazon Linux 2023

Platform version

6.4.3 (Recommended)

Application code Info

- ○ Sample application
- ○ Existing version
  Application versions that you have uploaded.
- ◉ Upload your code
  Upload a source bundle from your computer or copy one from Amazon S3.

Version label
Unique name for this version of your application code.

v1

Source code origin. Maximum size 500 MB

- ◉ Local file

Upload application

Choose file

File name: **my-portfolio-express-main.zip**
File must be less than 500MB max file size

- ○ Public S3 URL

Presets Info

Start from a preset that matches your use case or choose custom configuration to unset recommended values and use the service's default values.

Configuration presets

- ◉ Single instance (free tier eligible)
- ○ Single instance (using spot instance)
- ○ High availability
- ○ High availability (using spot and on-demand instances)
- ○ Custom configuration

Cancel Next

STEP 2

Configure service access Info

Service access

IAM roles, assumed by Elastic Beanstalk as a service role, and EC2 instance profiles allow Elastic Beanstalk to create and manage your environment. Both the IAM role and instance profile must be attached to IAM managed policies that contain the required permissions. Learn more

Service role

- ○ Create and use new service role
- ◉ Use an existing service role

Existing service roles
Choose an existing IAM role for Elastic Beanstalk to assume as a service role. The existing IAM role must have the required IAM managed policies.

LabRole

EC2 key pair
Select an EC2 key pair to securely log in to your EC2 instances. Learn more

vockey

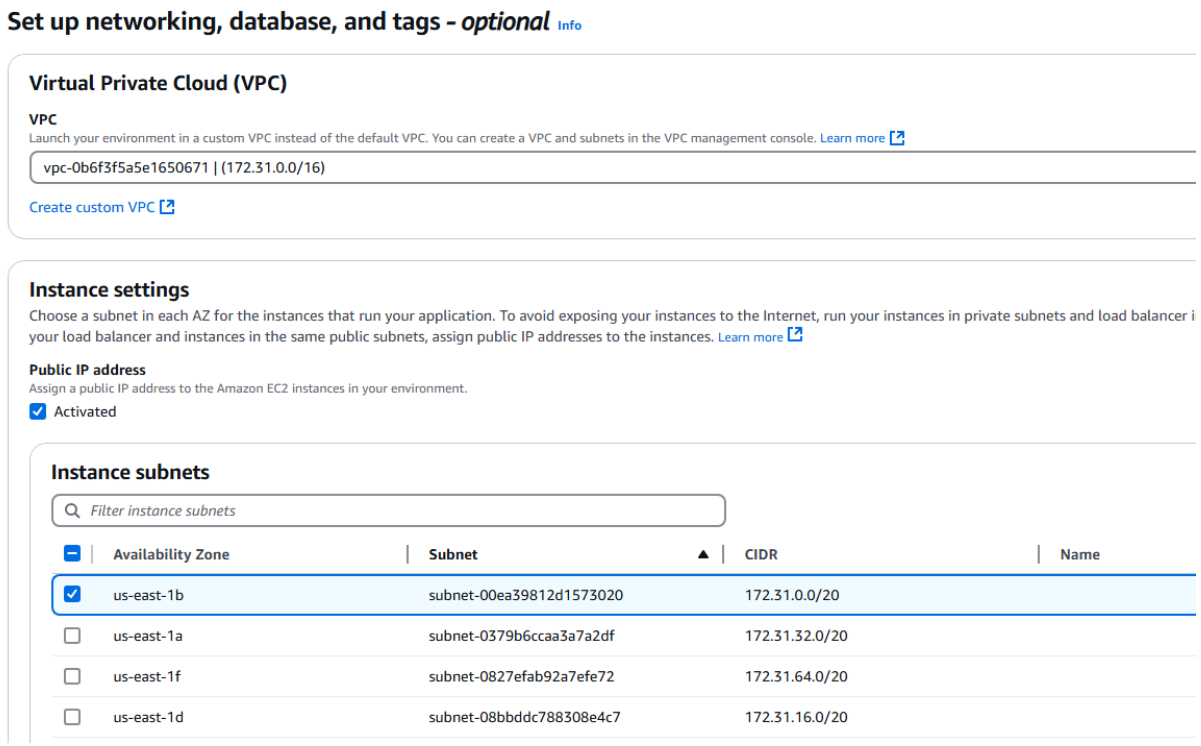
EC2 instance profile
Choose an IAM instance profile with managed policies that allow your EC2 instances to perform required operations.

LabInstanceProfile

View permission details

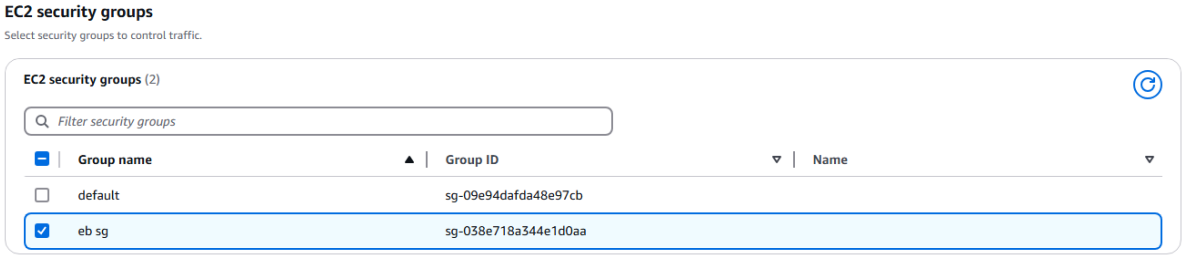
Cancel Skip to review Previous Next

STEP 3



Donot do anything in Database section

STEP 4



Only select the Security Group created before rest leave as it is.

STEP 5

Leave as it it and click next

STEP 6

Review and Submit

Once deployment is complete use the domain provided by elastic beanstalk with the port address of the Express app to open the app

Example: http://shibuporto.us-east-1.elasticbeanstalk.com:3000