# Deploying Streamlit App on AWS Elastic Beanstalk

## Steps:

### Compress and Zip the Streamlit Application

Prepare your application files:

Example: app.py requirements.txt with all the required dependencies

Create a new file in the project with the filename Procfile with content

web: streamlit run app.py --server.port 8000

• Add the above command to the Procfile.

• Select all necessary project files and compress them into a zip file: In our case: app.py, requirements.txt, and Procfile

### Create the Elastic Beanstalk Environment in the AWS Console

• Search for Elastic Beanstalk in the AWS Console.

• Select "Create Environment".

#### Environment Tier

• Select "Web server environment".

#### Application Information

• Enter your preferred Application name, e.g., Streamlit-App.

#### Environment Information

• Enter your preferred Environment name, e.g., ABCD Dashboard env.

• Enter your preferred Domain name, e.g., ABCD Dashboard.

#### Platform

• Choose "Managed Platform".

• Select the platform Python.

• Choose the preferred platform branch.

• Select the suitable platform version.

#### Application Code

• Choose "Upload your code".

• Enter the version, e.g., V1.

• Select "Local file".

• Upload the compressed zip file of your project application. Note: All files should be in the root directory (select all files inside the project, zip them, and upload).

### Step II: Configure Service Access

• Create or select the required service roles.

### Step III: Set Up Networking, Database, and Tags

• This step is optional and should be set up as needed.

### Step IV: Configure Instance Traffic and Scaling

• This step is optional and should be set up as needed.

Review and create the environment.

### Re-Deployment

• If there are any code changes, zip the files again as mentioned above.

• Open the AWS Console.

• Search for Elastic Beanstalk.

• Select the previously created Environment Name.

• In the top right, you will see the option "Upload and Deploy"; select this option.

• Change the version and upload the new zip file.