

A short horizontal bar with a teal segment on the left and an orange segment on the right.

AWS : Serverless BUILD SERVERLESS APPLICATION ON AWS CLOUD

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EBS

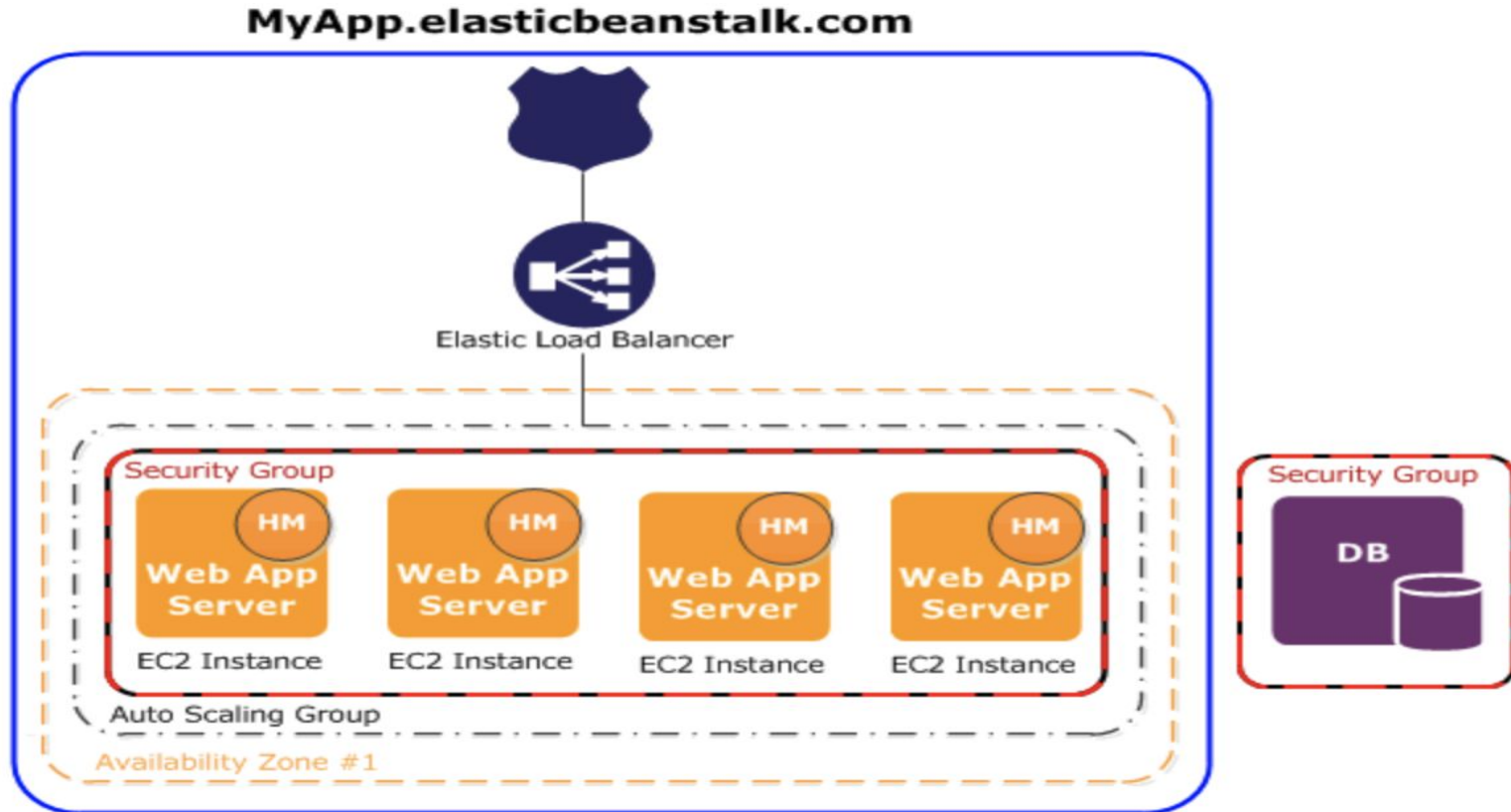
Elastic Beanstalk, we can quickly deploy and manage applications in the AWS Cloud without worrying about the infrastructure that runs those applications. AWS Elastic Beanstalk reduces management complexity without restricting choice or control. You simply upload your application, and Elastic Beanstalk automatically handles the details of capacity provisioning, load balancing, scaling, and application health monitoring.



Platform

-- Choose a platform --	▲
.NET Core on Linux	
.NET on Windows Server	
Docker	
GlassFish	
Go	
Java	
Node.js	
PHP	
Python	
Ruby	
Tomcat	

EBS : Architecture



EBS : Manual

STEPS)

Git repository clone

[git@github.com:trainmefordevsecops/serverless-project.git](https://github.com/trainmefordevsecops/serverless-project.git)

`cd serverless-project/container-application`

`zip -r my-first-app-source.zip *`

Create Environment in EBS

Create Application

Elastic Beanstalk > Environments

All environments ↻ Actions ▾ Create a new environment

< 1 > ⚙

Environment name ▲	Health ▾	Application name ▾	Date created ▾	Last modified ▾	URL ▾	Running versions ▾	Platform ▾	Platform state ▾	Tier name ▾
Mywebapp-env	Ok	my-web-app	2022-06-06 22:00:06 UTC+0800	2022-06-06 22:02:58 UTC+0800	Mywebapp-env.eba-c2m2prkc.ap-south-1.elasticbeanstalk.com	my-web-app-source	Docker running on 64bit Amazon Linux 2	Supported	WebServer

EBS : OutPut

Find Factorial

EBS github actions : Automated

STEPS)

Git repository clone

`git@github.com:trainmefordevsecops/ebs-github-actions.git`

Define workflow file under `ebs-github-actions/.github/workflows/app-deploy-aws-eb.yml`

The screenshot displays the GitHub interface for the repository `trainmefordevsecops/ebs-github-actions`. The repository is marked as `Private`. The navigation bar includes links for `Code`, `Issues`, `Pull requests`, `Actions`, `Projects`, `Security`, `Insights`, and `Settings`. The `Actions` tab is selected, showing the workflow file `app-deploy-aws-eb.yml` under the path `ebs-github-actions/.github/workflows/`. The file is 48 lines long (42 sloc) and 1.5 KB. The workflow content is as follows:

```
1 name: Deploy app on AWS Elastic Beanstalk
2
3 env:
4   APP_NAME: myawesomeapp
5   S3_BUCKET: my-awesome-app-bucket6nov2021
6   AWS_REGION: ap-south-1
7   AWS_PLATFORM: Docker
8   ENV_NAME: myawesomeapp-env
9   VERSION: 4
10
11 on:
12   push:
13     branches:
14       - main
15
16 jobs:
17   create_eb_version:
18     runs-on: ubuntu-latest
19     steps:
20       - name: Checkout Source Code
21         uses: actions/checkout@v2
```

EBS github actions : Automated STEPS)



Configure AWS credentials at github settings & provide access to specific role (ebs access + s3 etc.)

trainmefordevsecops / ebs-github-actions

Private

Unwatch 1

<> Code

Issues

Pull requests

Actions

Projects

Security

Insights

Settings

General

Access

Collaborators

Code and automation

Branches

Tags

Actions

Webhooks

Pages

Security

Code security and analysis

Deploy keys

Secrets

Actions

Dependabot

Actions secrets

New repository secret

Secrets are environment variables that are **encrypted**. Anyone with **collaborator** access to this repository can use these secrets for Actions.

Secrets are not passed to workflows that are triggered by a pull request from a fork. [Learn more.](#)

AWS_ACCESS_KEY_ID

Updated 1 hour ago

Update

Remove

AWS_SECRET_ACCESS_KEY

Updated 1 hour ago


Update

Remove

EBS github actions : Automated

Pipeline :

 [trainmefordevsecops / ebs-github-actions](#) Private

 Unwatch **1**

 Fork **0**

 Star **0**

[Code](#) [Issues](#) [Pull requests](#) **[Actions](#)** [Projects](#) [Security](#) [Insights](#) [Settings](#)

 **latest commit** Deploy Node app on AWS Elastic Beanstalk #2

Re-run all jobs

 Summary

Jobs









 **create_eb_version**

create_eb_version

succeeded 23 minutes ago in 1m 45s

 Search logs



- >  Set up job
- >  Checkout Source Code
- >  Configure AWS credentials
- >  create package & upload to s3
- >  Deploy new elastic beanstalk version
- >  Post Configure AWS credentials
- >  Post Checkout Source Code
- >  Complete job