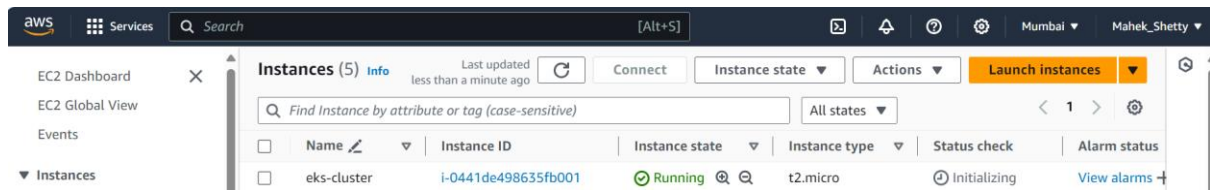


# GIT-HUB ACTIONS WITH EKS

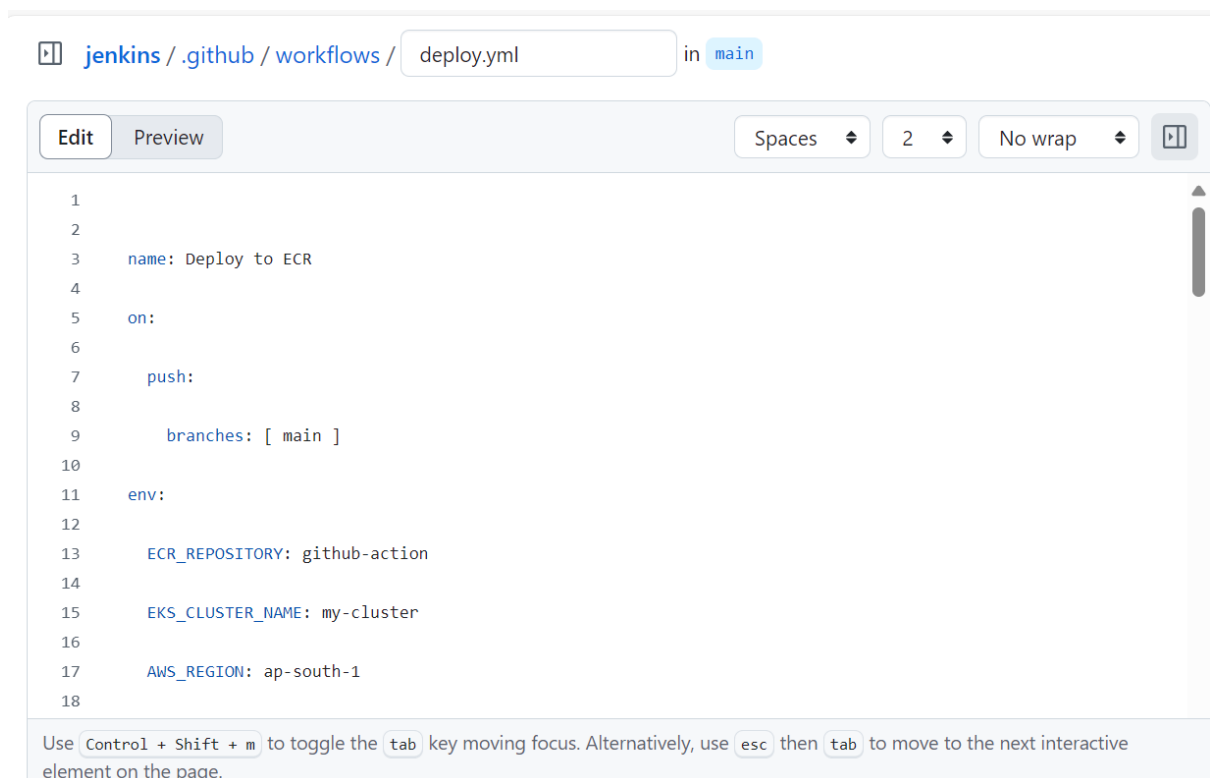
Create an instance on aws dashboard



Set the hostname

```
ubuntu@ip-172-31-41-252:~$ sudo su -
root@ip-172-31-41-252:~# hostnamectl set-hostname cluster
root@ip-172-31-41-252:~# bash
root@cluster:~#
```

Create a new file in git repository following the path



## Create a repository on ECR

Amazon ECR > Private registry > Repositories > Create repository

### Create private repository

**General settings**

Repository name  
Provide a concise name. Repository names support namespaces, which is recommended for grouping similar repositories.  
626635426238.dkr.ecr.ap-south-1.amazonaws.com/

13 out of 256 characters maximum (2 minimum). The name must start with a letter and can only contain lowercase letters, numbers, and special characters \_-./.

Image tag mutability [Info](#)  
Specify the tag mutability setting to use. When tag immutability is turned on for a repository, tags are prevented from being overwritten.

☒ **Mutable**  
Image tags can be overwritten.

☐ **Immutable**  
Image tags are prevented from being overwritten.

## Eks instance

Permissions policies (4) [Info](#) [Refresh](#) [Simulate](#) [Remove](#) [Add permissions](#)

You can attach up to 10 managed policies.

Filter by Type  
 All types

| <input type="checkbox"/> | Policy name                                 | Type                       | Attached entities |
|--------------------------|---|----------------------------|-------------------|
| <input type="checkbox"/> | <a href="#">AdministratorAccess</a>         | AWS managed - job function | 3                 |
| <input type="checkbox"/> | <a href="#">AmazonEKSClusterPolicy</a>      | AWS managed                | 3                 |
| <input type="checkbox"/> | <a href="#">AmazonElastiCacheFullAccess</a> | AWS managed                | 1                 |
| <input type="checkbox"/> | <a href="#">IAMFullAccess</a>               | AWS managed                | 3                 |

```
root@cluster:~# unzip awscliv2.zip
Archive:  awscliv2.zip
  creating: aws/
  creating: aws/dist/
  inflating: aws/README.md
  inflating: aws/THIRD_PARTY_LICENSES
  inflating: aws/install
  creating: aws/dist/awscli/
  creating: aws/dist/cryptography/
  creating: aws/dist/docutils/
  creating: aws/dist/lib-dynload/
  inflating: aws/dist/aws
  inflating: aws/dist/aws_completer
  inflating: aws/dist/libpython3.12.so.1.0
  inflating: aws/dist/_cffi_backend.cpython-312-x86_64-linux-gnu.so
  inflating: aws/dist/_ruamel_yaml.cpython-312-x86_64-linux-gnu.so
  inflating: aws/dist/libz.so.1
```

```
root@cluster:~# sudo ./aws/install
You can now run: /usr/local/bin/aws --version
root@cluster:~# aws configure
AWS Access Key ID [None]: AKIAZDZTBZG7FPUJRTNB
AWS Secret Access Key [None]: 4IXzRNjLzKQ5AG7tKyN4GXyCzK4lWpZ5zZ4ui0D
Default region name [None]: ap-south-1
Default output format [None]: table
```

```
root@cluster:~# curl --silent --location "https://github.com/weaveworks/eksctl/releases/latest/download/eksctl_${uname -s}_amd64.tar.gz" | tar xz -C /tmp
root@cluster:~# sudo mv /tmp/eksctl /usr/local/bin
root@cluster:~# eksctl version
0.191.0
root@cluster:~# curl -LO https://storage.googleapis.com/kubernetes-release/release/$(curl https://storage.googleapis.com/kubernetes-release/release/stable.txt)/bin/linux/amd64/kubectl
```

```
root@cluster:~# - ssh-keygen

ekscctl create nodegroup \
  --cluster my-cluster \
  --region ap-south-1 \
  --name my-node-group \
  --node-ami-family Ubuntu2004 \
  --node-type t2.small \
  --subnet-ids subnet-0f87f7375d8400582,subnet-004b51a14730308d3 \
  --nodes 3 \
  --nodes-min 2 \
  --nodes-max 4 \
  --ssh-access \
  --ssh-public-key /root/.ssh/id_ed25519.pub
-: command not found
2024-09-30 07:20:20 [I] will use version 1.29 for new nodegroup(s) based on control plane version
2024-09-30 07:20:20 [I] nodegroup "my-node-group" will use "ami-0ab6dcfb35da05038" [Ubuntu2004/1.29]
2024-09-30 07:20:20 [I] using SSH public key "/root/.ssh/id_ed25519.pub" as "ekscctl-my-cluster-nodegroup-my-node-group-QX/zLP7RCOhQB
FhmGMAaDXQ+HhXMJ8nkqpkjmOT8wV4"
2024-09-30 07:20:21 [I] 1 nodegroup (my-node-group) was included (based on the include/exclude rules)
2024-09-30 07:20:21 [I] will create a CloudFormation stack for each of 1 managed nodegroups in cluster "my-cluster"
2024-09-30 07:20:21 [I]
2 sequential tasks: { fix cluster compatibility, 1 task: { 1 task: { create managed nodegroup "my-node-group" } } }
}
2024-09-30 07:20:21 [I] checking cluster stack for missing resources
2024-09-30 07:20:21 [I] cluster stack has all required resources
2024-09-30 07:20:21 [I] building managed nodegroup stack "ekscctl-my-cluster-nodegroup-my-node-group"
2024-09-30 07:20:21 [I] deploying stack "ekscctl-my-cluster-nodegroup-my-node-group"
```

Branches

Tags

Rules

Actions

Webhooks

Environments

Codespaces

Pages

Security

Code security

Deploy keys

Secrets and variables

Actions

Codespaces

Dependabot

SecretsVariables







Environment secrets

This environment has no secrets.

Manage environment secrets

Repository secrets

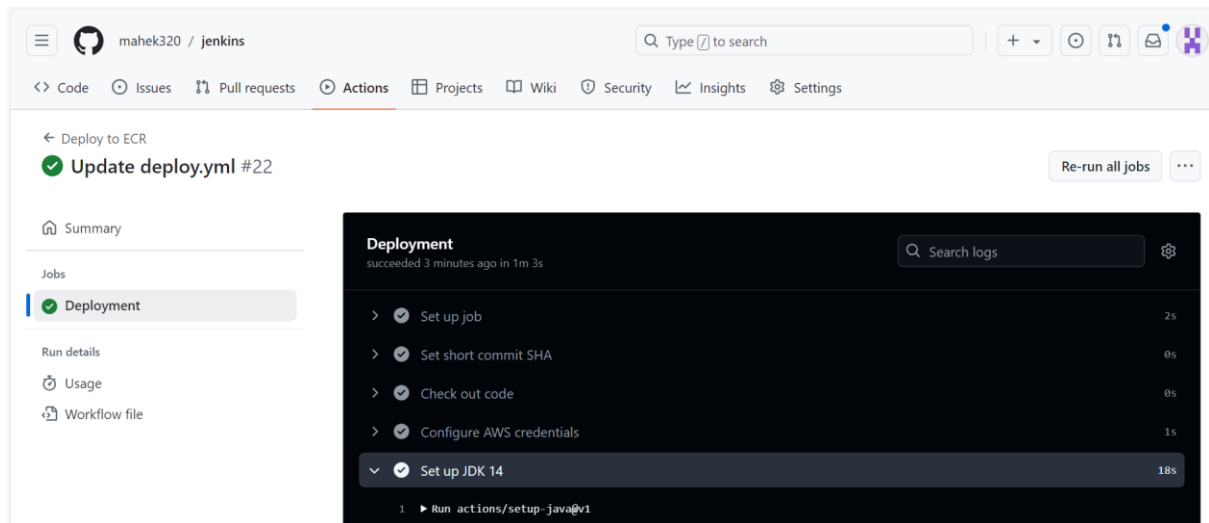
New repository secret

| Name ↕  | Last updated  |
|---|---|
|  AWS_ACCESS_KEY        | 9 minutes ago   |
|  AWS_SECRET_ACCESS_KEY | 9 minutes ago   |

## Vim deployment.yml

## Vim service.yml

Click on Actions on git hub

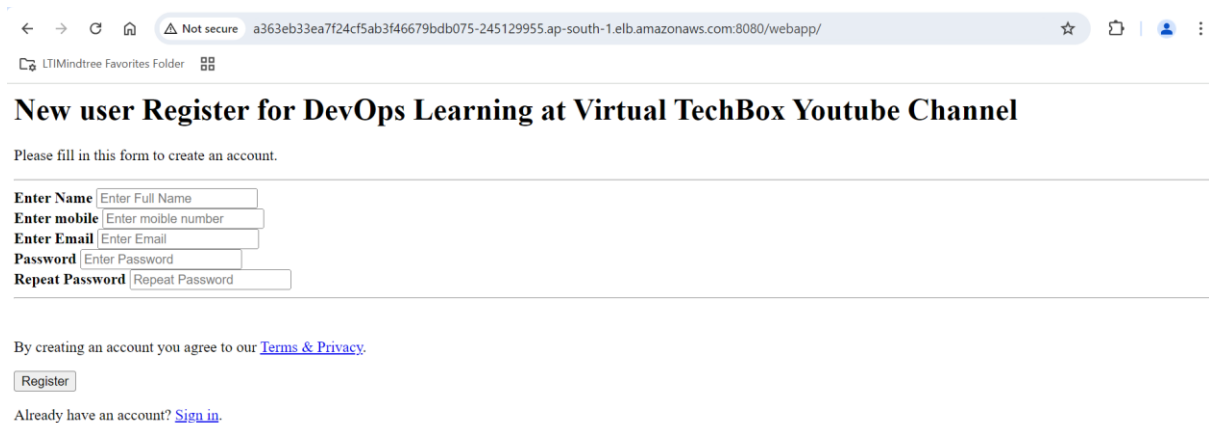


The screenshot shows the GitHub Actions interface for a repository named 'mahek320 / jenkins'. The 'Actions' tab is selected, showing a workflow named 'Deploy to ECR' with a job 'Update deploy.yml #22' that has completed successfully. The job summary shows a 'Deployment' step that succeeded 3 minutes ago in 1m 3s. The deployment log shows the following steps: 'Set up job' (2s), 'Set short commit SHA' (0s), 'Check out code' (0s), 'Configure AWS credentials' (1s), and 'Set up JDK 14' (18s). The 'Set up JDK 14' step is expanded, showing the command 'run actions/setup-java@v1'.

Kubectrl get svc

Paste the external ip on browser

Delete the deployment and service file from cluster terminal



The screenshot shows a registration form for 'DevOps Learning at Virtual TechBox Youtube Channel'. The form has a title 'New user Register for DevOps Learning at Virtual TechBox Youtube Channel' and a subtitle 'Please fill in this form to create an account.' The form fields are: 'Enter Name' (with placeholder 'Enter Full Name'), 'Enter mobile' (with placeholder 'Enter moible number'), 'Enter Email' (with placeholder 'Enter Email'), 'Password' (with placeholder 'Enter Password'), and 'Repeat Password' (with placeholder 'Repeat Password'). Below the form fields is a 'Register' button. At the bottom, there is a link to 'Terms & Privacy' and a link to 'Sign in' for existing users.

Thank You, Happy Learning

See You Again