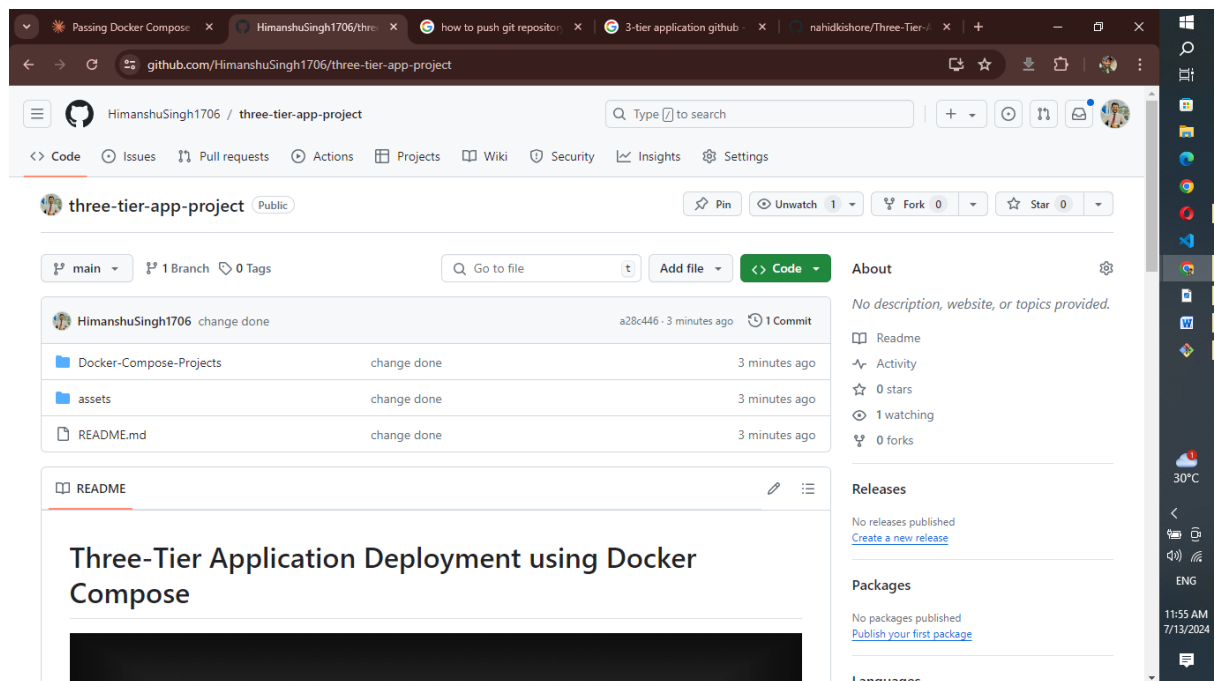
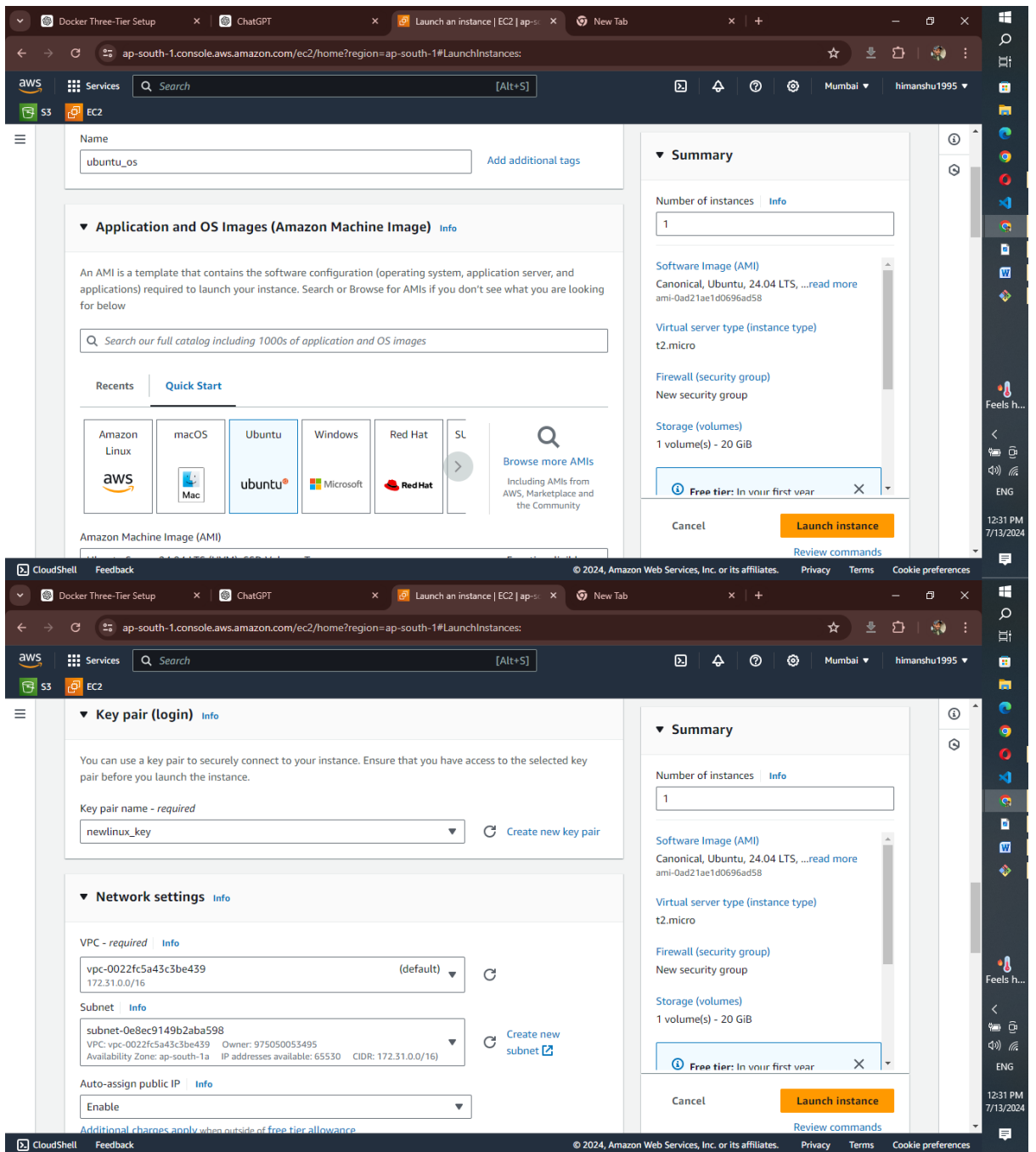


DevOps Assignment

Task 1:

1. Launched the instance by Ubuntu image in AWS.
2. Configure the git & docker.
3. Cloned repository and first tested manually that my application is working fine or not.
4. Please find the the below screen shot for the above 3 steps, and In task 2 I made this process automated with help of pipeline





Launch an instance | EC2 | ap-south-1

ap-south-1.console.aws.amazon.com/ec2/home?region=ap-south-1#LaunchInstances:

Configure storage

1x 20 GiB gp3 Root volume (Not encrypted)

Free tier eligible customers can get up to 30 GB of EBS General Purpose (SSD) or Magnetic storage

Add new volume

The selected AMI contains more instance store volumes than the instance allows. Only the first 0 instance store volumes from the AMI will be accessible from the instance

Click refresh to view backup information

The tags that you assign determine whether the instance will be backed up by any Data Lifecycle Manager policies.

0 x File systems

Advanced details

Summary

Number of instances 1

Software Image (AMI) Canonical, Ubuntu, 24.04 LTS, ...read more ami-0ad21ae1d0696ad58

Virtual server type (instance type) t2.micro

Firewall (security group) New security group

Storage (volumes) 1 volume(s) - 20 GiB

Free tier: In your first year

Cancel Launch instance Review commands

CloudShell Feedback

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Launch an instance | EC2 | ap-south-1

Instances | EC2 | ap-south-1

EC2 Instance Connect | ap-south-1

ap-south-1.console.aws.amazon.com/ec2-instance-connect/ssh?region=ap-south-1&connType=standard&instanceId=i-05a658864bc0781ef&osUser=ubuntu

aws

Services

Search

[Alt+S]

Mumbai

himanshu1995

ubuntu@ip-172-31-135-4:~\$ git clone https://github.com/HimanshuSingh1706/three-tier-app-project.git

Cloning into 'three-tier-app-project'...

remote: Enumerating objects: 43, done.

remote: Counting objects: 100% (43/43), done.

remote: Compressing objects: 100% (38/38), done.

remote: Total 43 (delta 3), reused 43 (delta 3), pack-reused 0

Receiving objects: 100% (43/43), 4.33 MiB | 19.21 MiB/s, done.

Resolving deltas: 100% (3/3), done.

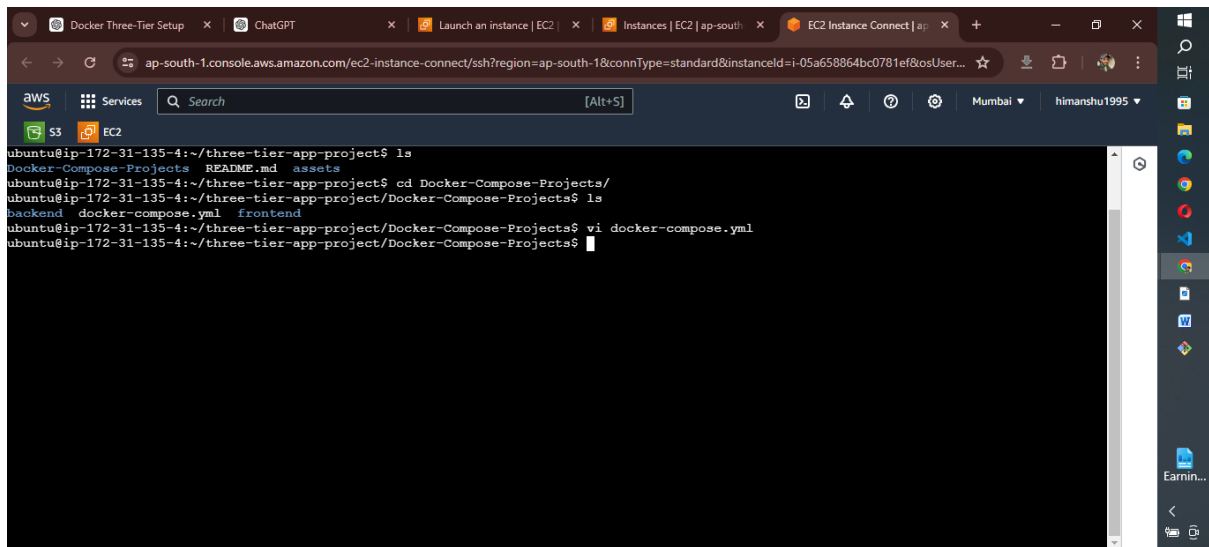
ubuntu@ip-172-31-135-4:~\$

i-05a658864bc0781ef (ubuntu_os)

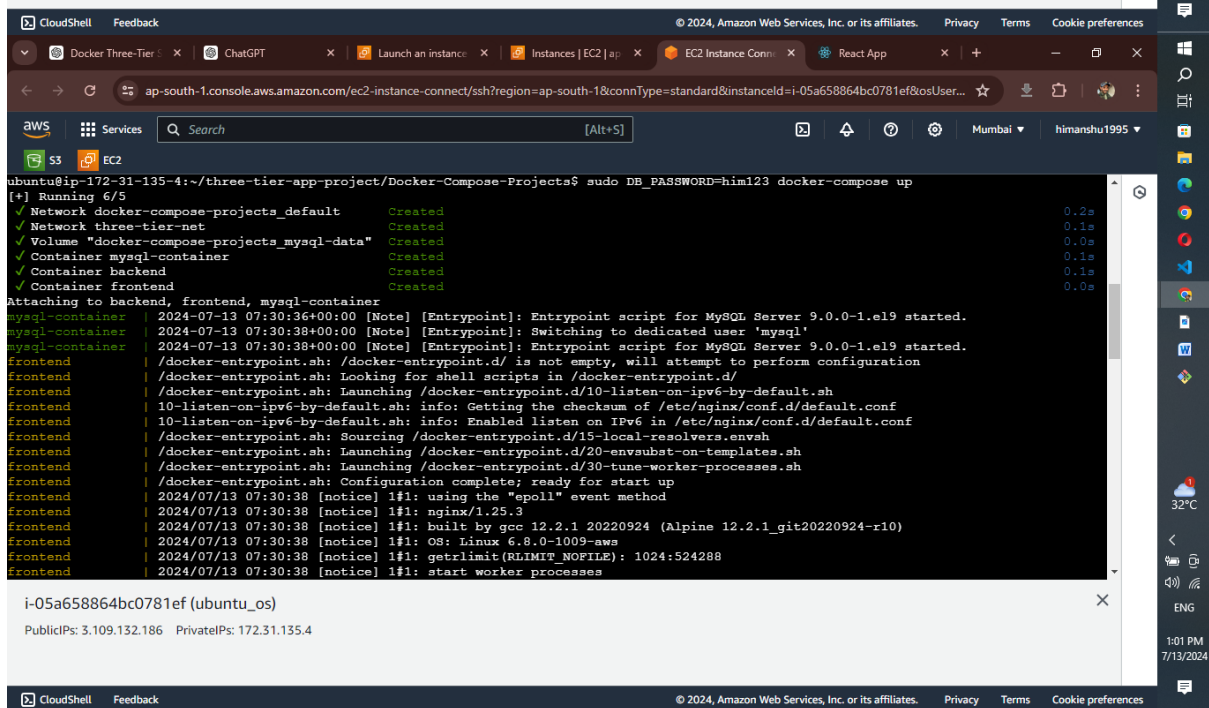
PublicIPs: 3.109.132.186 PrivateIPs: 172.31.135.4

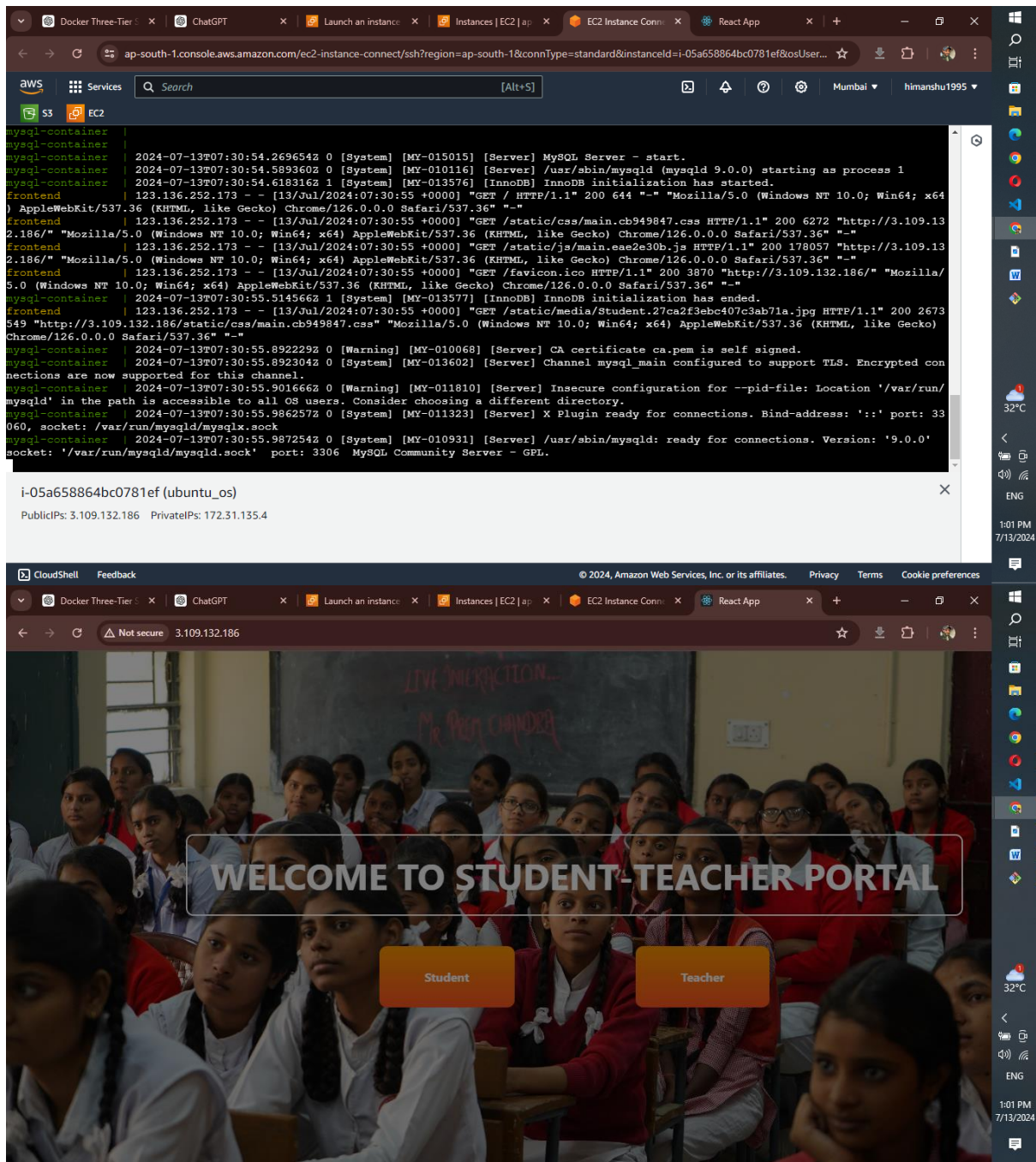
CloudShell Feedback

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i-05a658864bc0781ef (ubuntu_os)
PublicIPs: 3.109.132.186 PrivateIPs: 172.31.135.4





Task 2 – Automatically deployed the application with help of GitHub action

1. Created the new ec2- instance and configure the git and docker.
2. With help of IAM I just created the secret id and access key.
3. Added secret info in the github repository setting options (secret and variable/action)
AWS_ACCESS_KEY_ID , AWS_SECRET_ACCESS_KEY , DB_PASSWORD ,EC2_HOST, EC2_SSH_PRIVATE_KEY .
4. After this I just deploy the all process automatically with help of github action pipeline.

GitHub repository link –

Please find pipeline and app code with docker-compose file in following repository

<https://github.com/HimanshuSingh1706/Three-Tier-application-Assignment>

The screenshot displays a web browser window showing the GitHub repository page for 'Three-Tier-application-Assignment' by user HimanshuSingh1706. The repository is public and has 1 branch and 0 tags. The recent commits table shows updates to the deployment pipeline and application code.

Commit	Message	Time
HimanshuSingh1706	Update deploy.yml	19 minutes ago
	Update deploy.yml	19 minutes ago
	change done	32 minutes ago
	change done	32 minutes ago
	change done	32 minutes ago
	change done	32 minutes ago

The README file is titled 'Three-Tier Application Deployment using Docker Compose'.

Instance de x EC2 Instan x Update de x Update de x Update de x Himanshu x Automate x New Tab x +

github.com/HimanshuSingh1706/Three-Tier-application-Assignment/actions/runs/9921187461/job/27408853695

HimanshuSingh1706 / Three-Tier-application-Assignment

Type to search

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

← Deploy to EC2

Update deploy.yml #8

Re-run all jobs ...

Summary

Jobs

Run details

Usage

Workflow file

deploy

deploy

succeeded 2 minutes ago in 3m 15s

Search logs

- Set up job 1s
- Checkout code 1s
- Configure AWS credentials 1s
- Deploy to EC2 3m 8s
- Post Configure AWS credentials 8s
- Post Checkout code 8s
- Complete job 8s

Instance de x EC2 Instan x Update de x Update de x Update de x Himanshu x Automate x New Tab x +

github.com/HimanshuSingh1706/Three-Tier-application-Assignment/actions/runs/9921187461/job/27408853695

HimanshuSingh1706 / Three-Tier-application-Assignment

Type to search

<> Code Issues Pull requests Actions Projects Wiki Security Insights Settings

← Deploy to EC2

Update deploy.yml #8

Re-run all jobs ...

Summary

Jobs

Run details

Usage

Workflow file

deploy

deploy

succeeded 3 minutes ago in 3m 15s

Search logs

Set up job 1s

```
1 Current runner version: '2.317.0'
2 Operating System
6 Runner Image
11 Runner Image Provisioner
13 GITHUB_TOKEN Permissions
17 Secret source: Actions
18 Prepare workflow directory
19 Prepare all required actions
20 Getting action download info
21 Download action repository 'actions/checkout@v2' (SHA:ee9669bdlcc54295c223e9bb666b733df41de1c5)
22 Download action repository 'aws-actions/configure-aws-credentials@v1' (SHA:67fbcbb121271f7775d2e77159332880b6314838)
23 Complete job name: deploy
```

Checkout code 1s

```
1 Run actions/checkout@v2
12 Syncing repository: HimanshuSingh1706/Three-Tier-application-Assignment
13 Getting Git version info
17 Temporarily overriding HOME='/home/runner/work/_temp/4b8e06ce-54cd-4d23-9fbe-ala3639c670c' before making global git config changes
18 Adding repository directory to the temporary git global config as a safe directory
19 /usr/bin/git config --global --add safe.directory /home/runner/work/Three-Tier-application-Assignment/Three-Tier-
```

The screenshot shows a web browser window displaying a GitHub Actions workflow run. The browser's address bar shows the URL: `github.com/HimanshuSingh1706/Three-Tier-application-Assignment/actions/runs/9921187461/job/27408853695`. The page has a dark theme. On the left sidebar, under the 'Jobs' section, the 'deploy' job is selected and marked as successful with a green checkmark. Below the sidebar, the 'Run details' section is visible. The main content area shows the 'deploy' job's log. The job is titled 'deploy' and is marked as 'succeeded 3 minutes ago in 3m 15s'. The log is divided into three sections: 'Post Configure AWS credentials', 'Post Checkout code', and 'Complete job'. The 'Post Checkout code' section contains a list of 12 steps, including 'Post job cleanup', 'git version 2.45.2', 'Temporarily overriding HOME', 'Adding repository directory to the temporary git global config as a safe directory', and several 'git config' commands. The 'Complete job' section contains one step: 'Cleaning up orphan processes'. The right sidebar of the browser shows system information: 31°C, 9:39 PM, 7/13/2024, and the language is set to ENG.

Summary

Jobs

- ✓ deploy

Run details

Usage

Workflow file

deploy
succeeded 3 minutes ago in 3m 15s

Search logs

✓ Post Configure AWS credentials 0s

1 Post job cleanup.

✓ Post Checkout code 0s

1 Post job cleanup.
2 /usr/bin/git version
3 git version 2.45.2
4 Temporarily overriding HOME="/home/runner/work/_temp/deaeb0a-9217-4840-9288-8848e9f46f43" before making global git config changes
5 Adding repository directory to the temporary git global config as a safe directory
6 /usr/bin/git config --global --add safe.directory /home/runner/work/Three-Tier-application-Assignment/Three-Tier-application-Assignment
7 /usr/bin/git config --local --name-only --get-regexp core.sshCommand
8 /usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'core.sshCommand' && git config --local --unset-all 'core.sshCommand' || :"
9 /usr/bin/git config --local --name-only --get-regexp http.https://github.com/.extraheader
10 http.https://github.com/.extraheader
11 /usr/bin/git config --local --unset-all http.https://github.com/.extraheader
12 /usr/bin/git submodule foreach --recursive sh -c "git config --local --name-only --get-regexp 'http.https://github.com/.extraheader' && git config --local --unset-all 'http.https://github.com/.extraheader' || :"

✓ Complete job 0s

1 Cleaning up orphan processes

Thanks & Regards
Himanshu Singh
8896667881