

|                                     |                                         |
|-------------------------------------|-----------------------------------------|
| <b>School: CLOUDBOOSTA</b>          | <b>Course: DEVOPS</b>                   |
| <b>Name: AKOSA SAMUEL ONYEJEKWE</b> | <b>Module: Git Actions</b>              |
|                                     | <b>Class 1: Assignment_ Git Actions</b> |
| <b>Student No: CBALC0168</b>        | <b>Issue Date: April 30, 2026</b>       |

## Tasks:

1. Create GitHub repository for Terraform project
2. Clone repository into local environment
3. Create Terraform configuration for AWS S3 bucket
4. Commit and push Terraform code to GitHub
5. Configure GitHub Actions secrets for AWS authentication
6. Create GitHub Actions workflow for Terraform automation
7. Execute CI/CD pipeline for infrastructure deployment
8. Verify AWS resource creation (S3 bucket)
9. Implement infrastructure improvements (bucket versioning)
10. Use Git branching and pull request workflow
11. Review, merge, and synchronise changes
12. Validate CI/CD execution after updates

## Goal:

To implement Infrastructure as Code (IaC) using Terraform and automate deployment using GitHub Actions, while applying Git workflows for version control and team collaboration in a DevOps environment.

## Result:

- GitHub repository successfully created and configured
- Terraform configuration created and managed
- Local repository cloned and connected to GitHub
- AWS credentials securely configured using GitHub secrets
- GitHub Actions CI/CD pipeline successfully implemented
- Terraform plan and apply executed automatically
- AWS S3 bucket successfully created in eu-west-2 region
- Bucket naming conflict resolved using dynamic configuration
- Bucket versioning enabled successfully
- Branching and pull request workflow implemented
- Code reviewed, merged, and synchronised successfully
- CI/CD pipeline validated after updates

## Action:

### Step 1: Created GitHub Repository

- Navigated to GitHub
- Created new repository named **github-actions-lab-3**
- Set repository visibility to public
- Added README file

### Step 2: Verified Repository Creation

- Confirmed repository dashboard
- Verified initial commit and README file

### Step 3: Cloned Repository Locally

- Opened VS Code terminal
- Cloned repository into local environment
- Ran:

```
git clone https://github.com/samuelakosaonyekwe/github-actions-lab-3.git
cd github-actions-lab-3
```

### Step 4: Created Terraform Configuration

- Created `main.tf` file
- Configured AWS provider
- Defined S3 bucket resource
- Used bucket suffix variable

- Example:

```
resource "aws_s3_bucket" "demo" {
  bucket = "cloudburst-demo-${var.bucket_suffix}"
}
```

## Step 5: Committed Terraform Configuration

- Added Terraform file to Git
- Committed changes
- Pushed to GitHub

· Ran:

```
git add main.tf
git commit -m "Add initial Terraform configuration"
git push
```

## Step 6: Configured GitHub Secrets

- Navigated to repository settings
- Opened **Secrets and variables** → **Actions**
- Created secrets:

- AWS\_ACCESS\_KEY\_ID
- AWS\_SECRET\_ACCESS\_KEY
- AWS\_REGION

## Step 7: Created GitHub Actions Workflow

- Created `.github/workflows/terraform.yml`
- Defined pipeline trigger (push & pull request)
- Configured AWS credentials
- Added Terraform steps (init, validate, plan, apply)

## Step 8: Committed Workflow Configuration

- Added workflow file
- Committed and pushed changes

· Ran:

```
git add .
git commit -m "Add GitHub Actions workflow"
git push
```

## Step 9: Executed CI/CD Pipeline

- GitHub Actions triggered automatically
- Workflow executed successfully

Stages:

- Setup job
- Checkout repository
- Configure AWS credentials
- Terraform init
- Terraform validate
- Terraform plan
- Terraform apply

## Step 10: Verified AWS Resource Creation

- Logged into AWS Console
- Navigated to S3 service
- Confirmed bucket creation

· Bucket:

cloudburst-demo-sao

· Region:

eu-west-2 (London)

## Step 11: Updated Terraform Configuration (Versioning)

- Modified main.tf
- Added bucket versioning configuration

· Example:

```
resource "aws_s3_bucket_versioning" "demo" {  
  bucket = aws_s3_bucket.demo.id  
  
  versioning_configuration {  
    status = "Enabled"  
  }  
}
```

## Step 12: Created Feature Branch

- Created new branch for update
- Ran:

```
git checkout -b add-bucket-versioning
```

## Step 13: Committed and Pushed Changes

- Added updated Terraform file
- Committed changes
- Pushed to feature branch
- Ran:

```
git add main.tf  
git commit -m "Enable S3 bucket versioning"  
git push origin add-bucket-versioning
```

## Step 14: Created Pull Request

- Navigated to GitHub
- Created pull request from feature branch
- Compared changes

## Step 15: Reviewed and Approved Changes

- Checked CI/CD pipeline status
- Verified all checks passed

## Step 16: Merged Pull Request

- Clicked **Merge pull request**
- Confirmed merge into main branch

## Step 17: Verified CI/CD After Merge

- GitHub Actions triggered again
- Pipeline executed successfully

## Step 18: Final Workflow Execution

- Confirmed successful workflow runs
- Verified infrastructure deployment updates

## Summary

- GitHub repository was created and configured for Terraform project
- Terraform was used to define and deploy AWS S3 infrastructure
- GitHub Actions automated the CI/CD pipeline for Terraform execution
- AWS credentials were securely managed using GitHub secrets
- Infrastructure deployment was validated through AWS console
- Bucket versioning feature was successfully implemented
- Git workflow used included: · Branching
- Pull requests
- Code reviews
- Merging
- CI/CD pipeline ensured automated and consistent deployment

## Lab objective achieved:

Implemented Terraform-based infrastructure deployment and automated CI/CD pipeline using GitHub Actions with full Git collaboration workflow

Repositories contain a project's files and version history. Have a project elsewhere? [Import a repository](#).  
Required fields are marked with an asterisk (\*).

## Owner \*

Repository name \*

🔔 github-actions-lab-3 is available.

### Description

Public

On ☒

Terraform

No license 

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github

samuelakosaonyejekwe / github-actions-lab-3

Q Type to search

<> Code

Issues

Pull requests

Agents

Actions

Projects

Wiki

Security and quality

Insights

Settings

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github-actions-lab-3

Public

Pin

Watch 0

Fork 0

Star 0

main

1 Branch

0 Tags

Go to file

1

Add file

Code

Initial commit

27c96cd · now

1 Commit

.gitignore

Initial commit

now

README.md

Initial commit

now

README

github-actions-lab-3

About

No description, website, or topics provided.

Readme

Activity

0 stars

0 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Contributors 1

samuelakosaonyejekwe

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Status

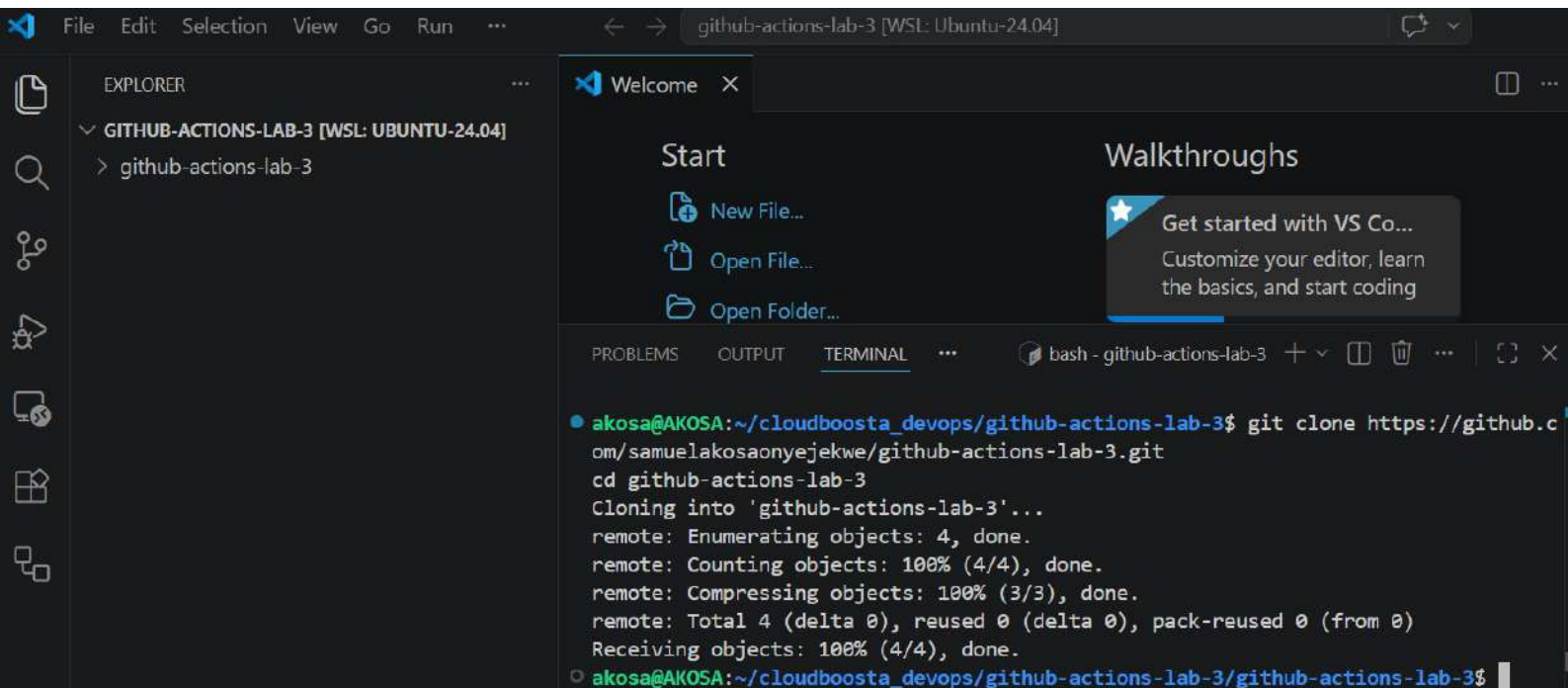
Community

Docs

Contact

Manage cookies

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github-actions-lab-3 [WSL: Ubuntu-24.04]

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: U...]

github-actions-lab-3

.gitignore

main.tf U

README.md

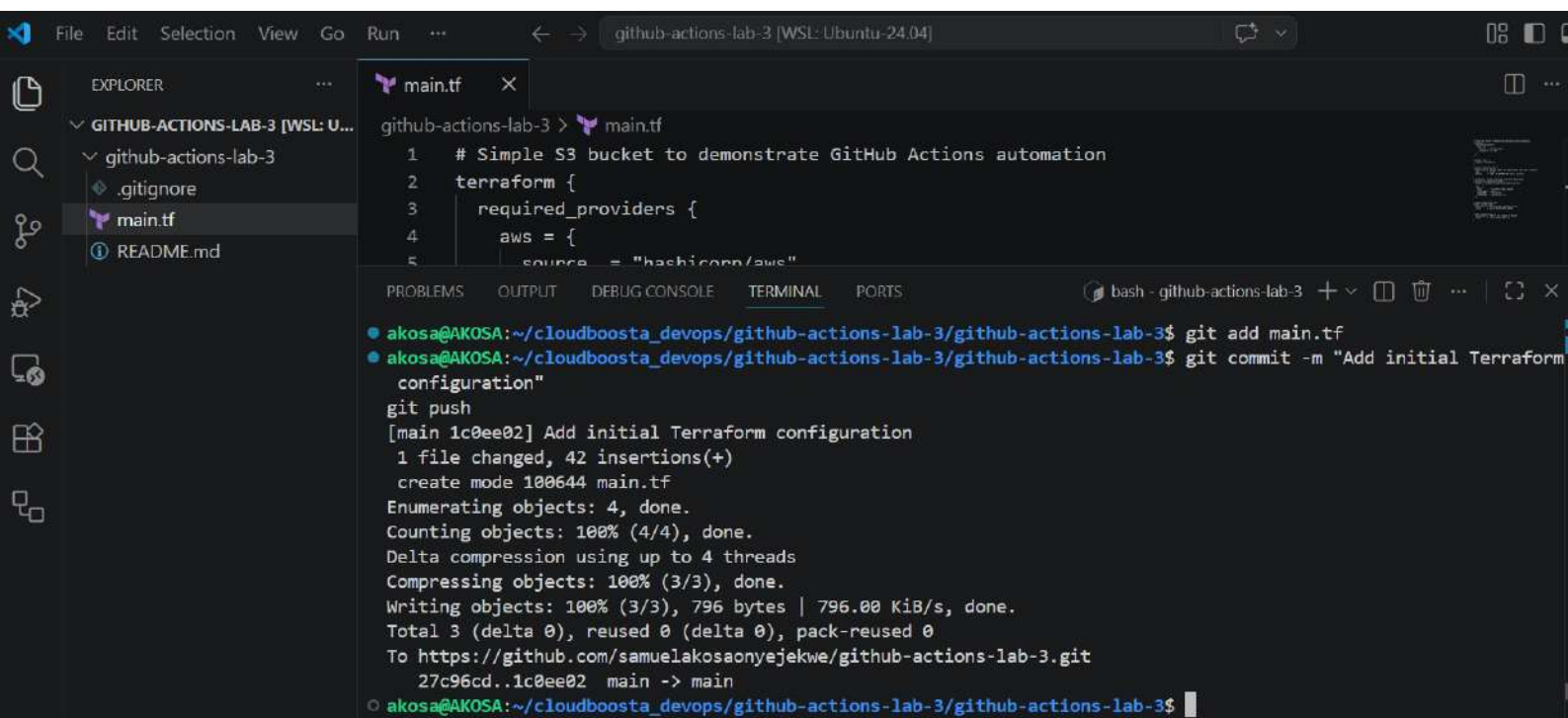
main.tf U X

```
github-actions-lab-3 > main.tf
1 # Simple S3 bucket to demonstrate GitHub Actions automation
2 terraform {
3     required_providers {
4         aws = {
5             source = "hashicorp/aws"
6             version = "~> 5.0"
7         }
8     }
9 }
10
11 provider "aws" {
12     region = "eu-west-2"
13 }
14
15 variable "bucket_suffix" {
16     description = "Unique suffix for bucket name (use your initials)"
17     type        = string
18     default     = "SAO" # CHANGED THIS to my initials!
19 }
20
21 # S3 Bucket - using fixed name to prevent duplicates
22 resource "aws_s3_bucket" "demo" {
23     bucket = "cloudburst-demo-${var.bucket_suffix}"
24
25     tags = {
```

PROBLEMS OUTPUT TERMINAL

bash - github-actions-lab-3

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab-3\$



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- General
- Access
- Collaborators
- Moderation options
- Code and automation
- Branches
- Tags
- Rules
- Actions
- Models
- Webhooks
- Copilot
- Environments
- Codespaces
- Pages
- Security and quality
- Advanced Security
- Deploy keys
- Secrets and variables
- Actions
- Codespaces
- Dependabot
- Integrations
- GitHub Apps
- Email notifications

## Actions secrets and variables

Secrets and variables allow you to manage reusable configuration data. Secrets are **encrypted** and are used for sensitive data. [Learn more about encrypted secrets](#). Variables are shown as plain text and are used for non-sensitive data. [Learn more about variables](#).

Anyone with collaborator access to this repository can use these secrets and variables for actions. They are not passed to workflows that are triggered by a pull request from a fork.

- Secrets
- Variables

### Environment secrets

This environment has no secrets.

Manage environment secrets

### Repository secrets

This repository has no secrets.

New repository secret

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- General
- Access
- Collaborators
- Moderation options
- Code and automation
- Branches
- Tags
- Rules
- Actions
- Models Preview
- Webhooks
- Copilot
- Environments
- Codespaces
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- Deploy keys
- Secrets and variables
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- Codespaces
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- Integrations
- GitHub Apps
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## Actions secrets and variables

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Anyone with collaborator access to this repository can use these secrets and variables for actions. They are not passed to workflows that are triggered by a pull request from a fork.

SecretsVariables

Environment secrets

This environment has no secrets.

Manage environment secrets

Repository secrets New repository secret

| Name ↕                                                                                                    | Last updated                                                                                                                                                                              |
|-----------------------------------------------------------------------------------------------------------|-------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|
|  AWS_ACCESS_KEY_ID       | 6 minutes ago       |
|  AWS_REGION              | now                 |
|  AWS_SECRET_ACCESS_KEY | 4 minutes ago   |

FileEditSelectionViewGoRun

github-actions-lab-3 [WSL: Ubuntu-24.04]

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

.github/workflows

terraform.yml

github-actions-lab-3

.gitignore

main.tf

README.md

main.tf

terraform.yml

.github > workflows > terraform.yml

```
1  name: Terraform CI/CD
2
3  # When does this workflow run?
4  on:
5    push:
6      branches:
7        - main
8    pull_request:
9      branches:
10       - main
11
12 # Environment variables available to all jobs
13 env:
14   AWS_ACCESS_KEY_ID: ${ secrets.AWS_ACCESS_KEY_ID }
15   AWS_SECRET_ACCESS_KEY: ${ secrets.AWS_SECRET_ACCESS_KEY }
16   AWS_REGION: ${ secrets.AWS_REGION }
17
18 # Jobs to run
19 jobs:
20   terraform:
21     name: Terraform Plan & Apply
22     runs-on: ubuntu-latest
23
24     steps:
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

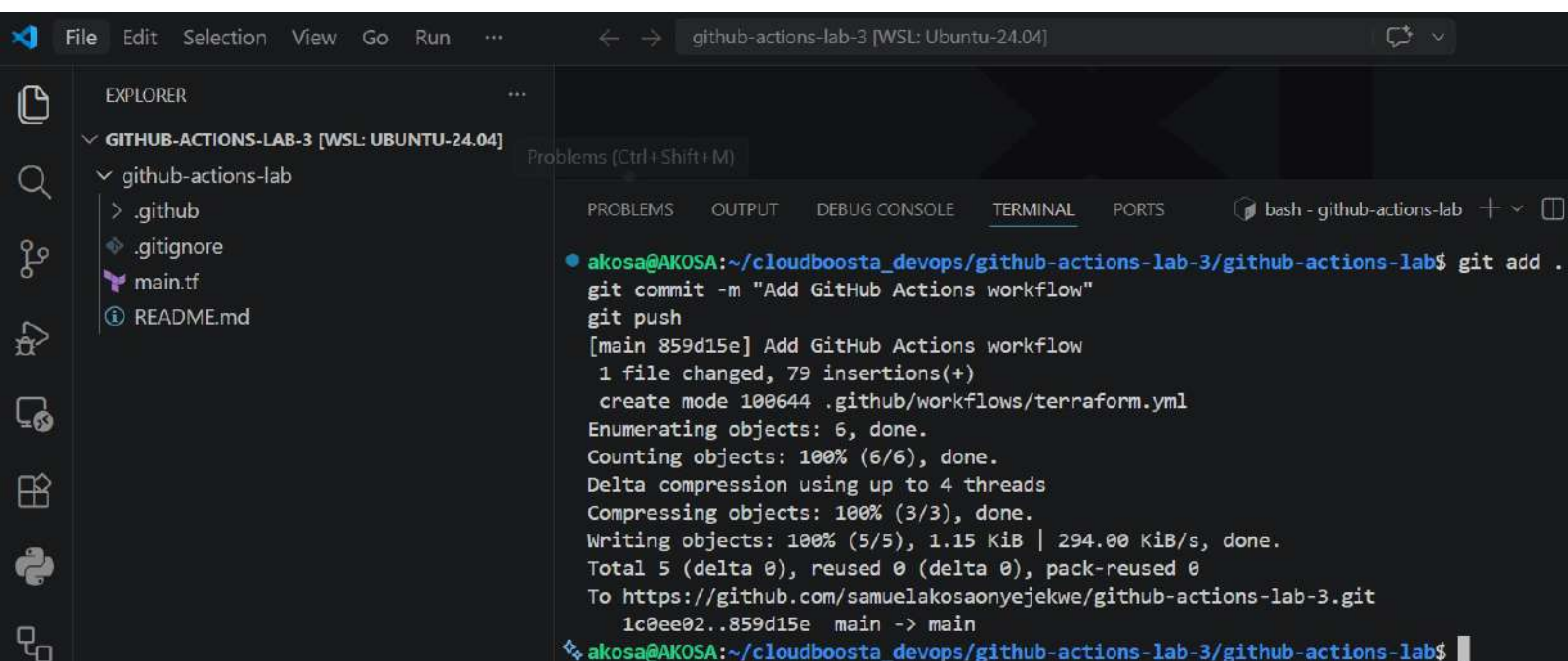
PORTS

bash - workflows

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3\$ mkdir -p .github/workflows

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3\$ cd .github/workflows

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/.github/workflows\$



File Edit Selection View Go Run ... github-actions-lab-3 [WSL: Ubuntu-24.04]

EXPLORER

▼ GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

▼ github-actions-lab

- > .github
- .gitignore
- main.tf
- README.md

Problems (Ctrl+Shift+M)

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS bash - github-actions-lab + -

```
akosa@AKOSA:~/cloudboosta_devops/github-actions-lab-3/github-actions-lab$ git add .
git commit -m "Add GitHub Actions workflow"
git push
[main 859d15e] Add GitHub Actions workflow
1 file changed, 79 insertions(+)
create mode 100644 .github/workflows/terraform.yml
Enumerating objects: 6, done.
Counting objects: 100% (6/6), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (5/5), 1.15 KiB | 294.00 KiB/s, done.
Total 5 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/samuelakosaonyekwe/github-actions-lab-3.git
1c0ee02..859d15e main -> main
akosa@AKOSA:~/cloudboosta_devops/github-actions-lab-3/github-actions-lab$
```

Re-run all jobs

 Workflow file

succeeded 3 minutes ago in 29s

Q Search logs

- |   |                                  |    |
|---|----------------------------------|----|
| > | ✔ Set up job                     | 3s |
| > | ✔ Checkout repository            | 0s |
| > | ✔ Setup Terraform                | 2s |
| > | ✔ Configure AWS Credentials      | 0s |
| > | ✔ Restore Terraform State        | 3s |
| > | ✔ Terraform Format               | 0s |
| > | ✔ Terraform Init                 | 2s |
| > | ✔ Terraform Validate             | 2s |
| > | ✔ Terraform Plan                 | 5s |
| > | ✔ Terraform Apply                | 7s |
| > | ✔ Save Terraform State           | 1s |
| > | ✔ Post Configure AWS Credentials | 0s |
| > | ✔ Post Checkout repository       | 0s |
| > | ✔ Complete job                   | 0s |

Amazon S3

Buckets

Amazon S3

<

▼ Buckets

General purpose buckets

Directory buckets

Table buckets

General purpose buckets (12) Info

Refresh

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

< 1 > ⚙

|                       | Name                                | AWS Region                | Creation date                        |
|-----------------------|-------------------------------------|---------------------------|--------------------------------------|
| <input type="radio"/> | <a href="#">cloudburst-demo-sao</a> | Europe (London) eu-west-2 | April 30, 2026, 14:16:28 (UTC+03:00) |

```
22 resource "aws_s3_bucket" "demo" {
23   bucket = "cloudburst-d
24
25   tags = {
26     Name           = "CloudBurst Demo Bucket"
27     Environment    = "dev"
28     ManagedBy      = "terraform"
29     DeployedBy     = "github-actions"
30   }
31 }
32
33 # Enable versioning on the bucket
34 resource "aws_s3_bucket_versioning" "demo" {
35   bucket = aws_s3_bucket.demo.id
36   versioning_configuration {
37     status = "Enabled"
38   }
39 }
40
41 # Output the bucket name
```

FileEditSelectionViewGoRun...github-actions-lab-3 [WSL: Ubuntu-24.04]Update

EXPLORER...

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

github-actions-lab

.github/workflowsterraform.yml.terraform.gitignore.terraform.lock.hclmain.tfREADME.md

main.tf

main.tf

github-actions-lab > main.tf

22 resource "aws\_s3\_bucket" "demo" {  
23 bucket = "cloudburst-demo-\${var.bucket\_suffix}"  
24  
25 tags = {  
26 Name = "CloudBurst Demo Bucket"  
27

PROBLEMSOUTPUTDEBUG CONSOLETERMINALPORTS

bash - github-actions-lab + ...  
● akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3\$ cd ~/cloudboosta\_devops/github-actions-lab-3/  
/github-actions-lab  
● akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$ git add main.tf  
git commit -m "Enable S3 bucket versioning"  
git push origin add-bucket-versioning  
[add-bucket-versioning c076f6d] Enable S3 bucket versioning  
1 file changed, 8 insertions(+)  
Enumerating objects: 5, done.  
Counting objects: 100% (5/5), done.  
Delta compression using up to 4 threads  
Compressing objects: 100% (3/3), done.  
Writing objects: 100% (3/3), 431 bytes | 431.00 KiB/s, done.  
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0  
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.  
remote:  
remote: Create a pull request for 'add-bucket-versioning' on GitHub by visiting:  
remote: https://github.com/samuelakosaonyekwe/github-actions-lab-3/pull/new/add-bucket-versi  
oning  
remote:  
To https://github.com/samuelakosaonyekwe/github-actions-lab-3.git  
\* [new branch] add-bucket-versioning -> add-bucket-versioning  
akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$

🔍 Type to search

<> Code

🔍 Issues

🔍 Pull requests

🔍 Agents

🔍 Actions

🔍 Projects

🔍 Wiki

🔍 Security and quality

🔍 Insights

⚙️ Settings

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## Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).

🔍

base: main

←

compare: add\_bucket\_versioning

✓ Able to merge. These branches can be automatically merged.

👤 Add a title \*

Enable S3 bucket versioning

Add a description

Write

Preview

H B I

Ready to merge

🔗 Open samuelakosaonysjekwe wants to merge 1 commit into main from add-bucket-versioning

Conversation 0 Commits 1 Checks 0 Files changed 1

 **samuelakosaonyekwe** commented [1 minute ago](#) Owner ...

*No description provided.*





















































































































































































































































A screenshot of the GitHub Actions workflow status interface. It shows a green checkmark icon on the left. The main status is "All checks have passed" with a sub-message "1 successful check". Below this, a specific job is listed: "Terraform CI/CD / Terraform Plan & Apply (pull\_request)" with a status of "Successful in 16s". At the bottom, there is a green button labeled "Merge pull request" and a message: "You can also merge this with the command line. [View command line instructions.](#)".

Still in progress? [Convert to draft](#)



Add a comment

WritePreview

H B I ≡ <> 🔗 ≡ ≡ % ≡ 🖌 @ 🔄 ↻

Add your comment here...

 Markdown is supported

 Paste, drop, or click to add files

 Close pull request

Comment

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

 **ProTip!** Add comments to specific lines under **Files changed**.

Reviewers

No reviews

Still in progress? [Convert to draft](#)

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Notifications

Customize

 Unsubscribe

You're receiving notifications because you authored the thread.

1 participant



 Lock conversation

samuelakosaonyejekwe / github-actions-lab-3

Type to search

<> Code

Issues

Pull requests 1

Agents

Actions

Projects

Wiki

Security and quality

Insights

Settings

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Actions

New workflow

All workflows

Terraform CI/CD

Management

Caches

Attestations

Runners

Usage metrics

Performance metrics

All workflows

Showing runs from all workflows

3 workflow runs

Workflow ▾

Event ▾

Status ▾

Branch ▾

Actor ▾

✓ Enable S3 bucket versioning

add-bucket-versioning

3 minutes ago  
20s

...

Terraform CI/CD #7: Pull request #1 opened by samuelakosaonyejekwe

✓ Add GitHub Actions workflow for Terraform

main

38 minutes ago  
39s

...

Terraform CI/CD #6: Commit 8c49d8 pushed by samuelakosaonyejekwe

✓ Fix S3 bucket naming and region

main

47 minutes ago  
42s

...

Terraform CI/CD #4: Commit 8da9b01 pushed by samuelakosaonyejekwe

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Re-run all jobs

 Workflow file

succeeded 6 minutes ago in 16s

Q Search logs

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# Enable S3 bucket versioning #1

Ready to merge

Code

Open

 samuelakosaonyejekwe wants to merge 1 commit into `main` from `add-bucket-versioning`

Conversation 0

Commits 1

Checks 1

Files changed 1

 samuelakosaonyejekwe commented 8 minutes ago Owner

No description provided.



 Enable S3 bucket versioning ✓ r076fad



**Commit message**

Merge pull request #1 from samuelakosaonyejekwe/add-bucket-versioning

**Extended description**

Enable S3 bucket versioning

This commit will be authored by samuelonyejekwe852@gmail.com.

Confirm merge

Cancel

**Reviewers**

No reviews

Still in progress? [Convert to draft](#)

**Assignees**

No one—[assign yourself](#)

**Labels**

None yet

**Projects**

None yet

**Milestone**

No milestone

**Development**

Successfully merging this pull request may close these issues.

None yet

**Notifications** Customize

Unsubscribe

You're receiving notifications because you authored the thread.

 **Add a comment**

Write

Preview

H B I        

Add your comment here...

Markdown is supported

Paste, drop, or click to add files

Close pull request

Comment

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

**ProTip!** Add comments to specific lines under [Files changed](#).

## Code ▾

Conversation 0 Commits 1 Checks 1 Files changed 1

18. **Answer: B** *Streptococcus pneumoniae*

Quiner \*\*\*

No description provided.



- ☒ Enable S3 bucket versioning

✓ c875f6d

  **samuelakosaonyekwe** merged commit **b8f125c** into **main** **now**  
1 check passed

[View details](#)

Revert

### Reviewers

No reviews

Still in progress? Convert to draft

### Assignees

No one—assign yourself!

Labels

None yet

## Projects

None vet

### Milestone

No milestones

Development

Successfully merging this pull request may close these issues.

None yet

### Notifications

Customize



1 participant

 Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

**ProTip!** Add comments to specific lines under **Files changed**.



 Lock conversation

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Actions

New workflow

All workflows

Terraform CI/CD

Management

Caches

Attestations

All workflows

Showing runs from all workflows

Filter workflow runs

4 workflow runs

Workflow Event Status Branch Actor

✔ Merge pull request #1 from samuelakosaonyekwe/...

Terraform CI/CD #8: Commit `b8f125c` pushed by [samuelakosaonyekwe](#)

main

1 minute ago

36s

...

samuelakosaonyejekwe / github-actions-lab-3

Q Type (T) to search

<> Code

Issues

Pull requests

Agents

On April 24 we'll start using GitHub Copilot interaction data

Actions

New workflow

All workflows

Terraform CI/CD

Management

Caches

Attestations

Runners

Usage metrics

Performance metrics

Terraform CI/CD

4 workflows

✓

✓

✓

✓

Add GitHub Actions workflow for Terraform

Terraform CI/CD #6, Commit: [8dc33e8](#) pushed by [samuelakosaonyejekwe](#)

Fix S3 bucket naming and region

Terraform CI/CD #44, Commit: [8dc33e8](#) pushed by [samuelakosaonyejekwe](#)

Create status badge

Terraform CI/CD [status badge](#)

Branch

Branch: Default branch

Event

Default

[[Terraform CI/CD  
(<https://github.com/samuelakosaonyejekwe/github-actions-lab-3/actions/workflows/terraform.yml/badge.svg>)]  
(<https://github.com/samuelakosaonyejekwe/github-actions-lab-3/actions/workflows/terraform.yml>)

Copy status badge Markdown

Insights

Settings

your preferences in your [GitHub account settings](#).

Filter workflow runs

Event Status Branch Actor

4 minutes ago

36s

...

13 minutes ago

20s

...

45 minutes ago

39s

...

1 hour ago

42s

...

github-actions-lab-3 [WSL: Ubuntu-24.04] Update

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

github-actions-lab

github/workflows

terraform.yml

.terraform

.gitignore

.terraform.lock.hcl

main.tf

README.md

main.tf

github-actions-lab > main.tf

22 resource "aws\_s3\_bucket" "demo" {

23 bucket = "cloudburst-demo-\${var.bucket\_suffix}"

24

25 tags = {

26 Name = "CloudBurst Demo Bucket"

27

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

bash - github-actions-lab

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$ git checkout main

git pull

Switched to branch 'main'

Your branch is up to date with 'origin/main'.

remote: Enumerating objects: 1, done.

remote: Counting objects: 100% (1/1), done.

remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)

Unpacking objects: 100% (1/1), 906 bytes | 453.00 KiB/s, done.

From https://github.com/samuelakosaonyekwe/github-actions-lab-3

8cc93a8..b8f125c main -> origin/main

Updating 8cc93a8..b8f125c

Fast-forward

main.tf | 8 ++++++

1 file changed, 8 insertions(+)

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$

FileEditSelectionViewGoRun...github-actions-lab-3 [WSL: Ubuntu-24.04]

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

github-actions-lab

- .github/workflows
  - terraform.yml
- .terraform
- .gitignore
- .terraform.lock.hcl
- main.tf
- README.md

main.tf

README.md

github-actions-lab > README.md > abc # github-actions-lab-3 > abc ## Workflow

1# github-actions-lab-3

2

3[![Terraform CI/CD](https://github.com/samuelakosaonyekwe/github-actions-lab-3/actions/workflows/terraform.yml/badge.svg)]

4

5This repository demonstrates GitHub Actions automation for Terraform

6deployments.

7## Workflow

8

9- \*\*On Pull Request\*\*: Runs format, validate, and plan

10- \*\*On Push to Main\*\*: Runs format, validate, plan, and apply

11

12## Resources Created

13

14- S3 Bucket with versioning enabled

PROBLEMS

OUTPUT

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TERMINAL

PORTS

bash - github-actions-lab

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$

github-actions-lab-3 [WSL: Ubuntu-24.04] Update

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

- github-actions-lab
  - .github/workflows
    - terraform.yml
  - .terraform
  - .gitignore
  - .terraform.lock.hcl
  - main.tf
  - README.md

main.tf

README.md

```
github-actions-lab > README.md > abc # github-actions-lab-3 > abc ## Resources Created
1 # github-actions-lab-3
2
3 [![Terraform CI/CD](https://github.com/samuelakosaonyekwe/
github-actions-lab-3/actions/workflows/terraform.yml/badge.svg)]
4
5 This repository demonstrates GitHub Actions automation for Terraform
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

bash - github-actions-lab

```
akosa@AKOSA:~/cloudboosta_devops/github-actions-lab-3/github-actions-lab$ git add README.md
git commit -m "Add workflow status badge"
git push
[main 9402b51] Add workflow status badge
1 file changed, 14 insertions(+), 1 deletion(-)
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 4 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 544 bytes | 544.00 KiB/s, done.
Total 3 (delta 1), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (1/1), completed with 1 local object.
To https://github.com/samuelakosaonyekwe/github-actions-lab-3.git
b8f125c..9402b51 main -> main
akosa@AKOSA:~/cloudboosta_devops/github-actions-lab-3/github-actions-lab$
```

samuelakosaonyekwe / github-actions-lab-3

Q Type to search

<> Code

Issues

Pull requests

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github-actions-lab-3 (Public)

Pin

Watch 0

Fork 0

Star 0

main 2 Branches 0 Tags

Go to file

1

Add file

<> Code

1 samuelakosaonyekwe Add workflow status badge ✓

9402b51 · 1 minute ago 10 Commits

.github/workflows

Add GitHub Actions workflow for Terraform

1 hour ago

.gitignore

Initial commit

yesterday

terraform.lock.hcl

Add GitHub Actions workflow for Terraform

1 hour ago

README.md

Add workflow status badge

1 minute ago

main.tf

Enable S3 bucket versioning

33 minutes ago

README

github-actions-lab-3

Terraform CI/CD passing

This repository demonstrates GitHub Actions automation for Terraform deployments.

Workflow

- On Pull Request: Runs format, validate, and plan
- On Push to Main: Runs format, validate, plan, and apply

Resources Created

- S3 Bucket with versioning enabled

About

No description, website, or topics provided.

Readme

Activity

0 stars

0 watching

0 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Contributors 1

1 samuelakosaonyekwe

Languages

HCL 100.0%

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github-actions-lab-3 [WSL: Ubuntu-24.04]

EXPLORER

- GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]
  - github-actions-lab
    - .github/workflows
      - terraform-destroy.yml U
      - terraform.yml
    - .terraform
    - .gitignore
    - .terraform.lock.hcl
    - main.tf
    - README.md

main.tf | README.md | terraform-destroy.yml U X

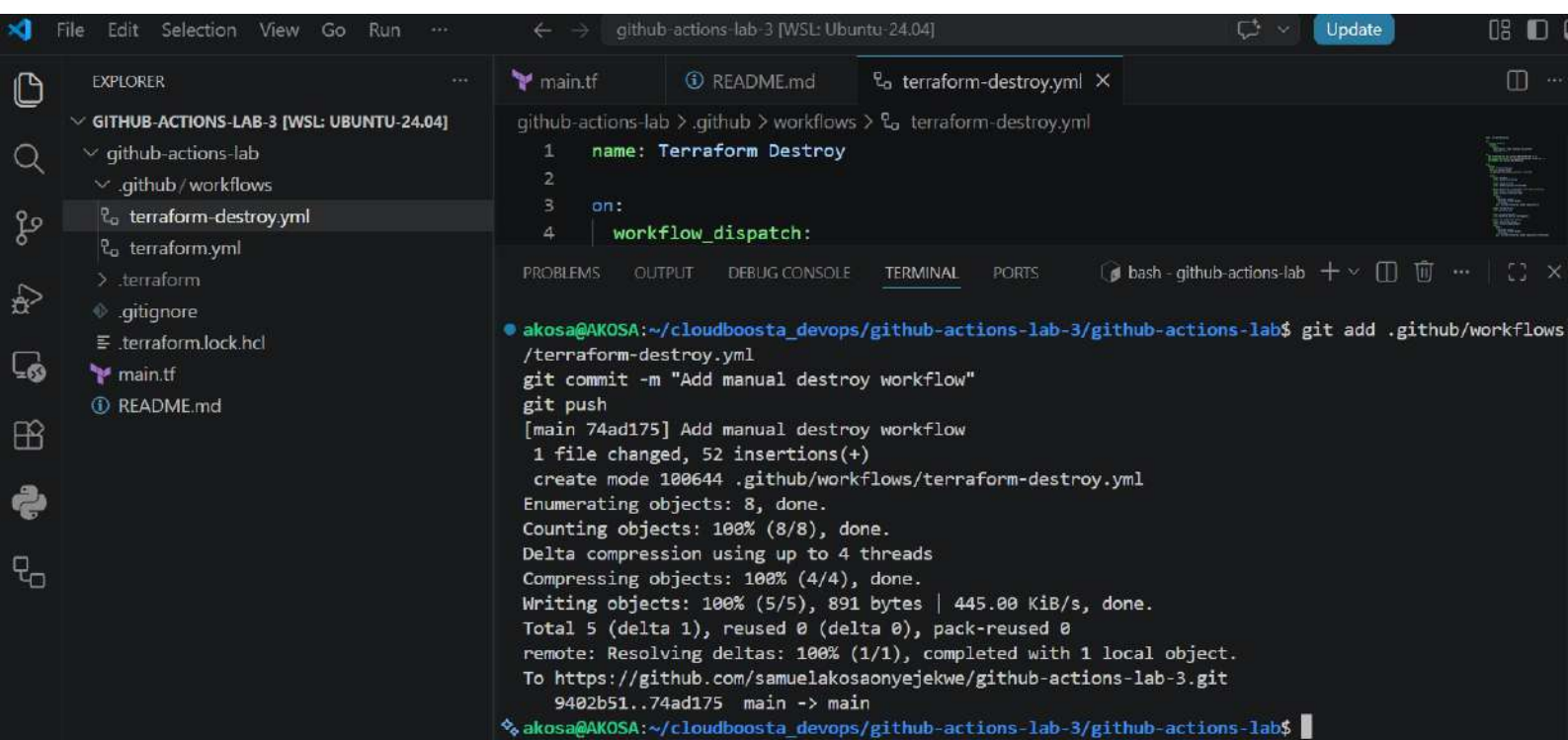
github-actions-lab > .github > workflows > terraform-destroy.yml

```
1 name: Terraform Destroy
2
3 on:
4   workflow_dispatch:
5     inputs:
6       confirm:
7         description: 'Type "destroy" to confirm'
8         required: true
9
10  env:
11    AWS_ACCESS_KEY_ID: ${ secrets.AWS_ACCESS_KEY_ID }
12    AWS_SECRET_ACCESS_KEY: ${ secrets.AWS_SECRET_ACCESS_KEY }
13    AWS_REGION: ${ secrets.AWS_REGION }
14
15  jobs:
16    destroy:
17      name: Terraform Destroy
18      runs-on: ubuntu-latest
19      if: github.event.inputs.confirm == 'destroy'
20
21      steps:
22        - name: Checkout
23          uses: actions/checkout@v4
24
25        - name: Setup Terraform
```

PROBLEMS | OUTPUT | DEBUG CONSOLE | TERMINAL | PORTS

bash - github-actions-lab

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$



samuelakosaonyekwe / github-actions-lab-3

Q Type to search

<> Code

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Actions

New workflow

All workflows

Terraform CI/CD

Terraform Destroy

Management

Caches

Attestations

Runners

Usage metrics

Performance metrics

Terraform Destroy

terraform-destroy.yml

Filter workflow runs

...

0 workflow runs

Event

Status

Branch

Actor

This workflow has a workflow\_dispatch event trigger.

Run workflow

This workflow has no runs yet.

samuelakosaonyekwe / github-actions-lab-3

Q Type to search

<> Code

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Actions

New workflow

All workflows

Terraform CI/CD

Terraform Destroy

Management

Caches

Attestations

Runners

Usage metrics

Performance metrics

Terraform Destroy

terraform-destroy.yml

0 workflow runs

Event Status Branch Actor

This workflow has a workflow\_dispatch event trigger.

Run workflow

Use workflow from

Branch: main

Type "destroy" to confirm

destroy

Run workflow

This workflow has no runs:

samuelakosaonyekwe / github-actions-lab-3

Q

Type / to search

<> Code

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← Terraform Destroy

✓

Terraform Destroy #1

Re-run all jobs

...

Summary

All jobs

Terraform Destroy

Run details

Usage

Workflow file

Manually triggered 1 minute ago

samuelakosaonyekwe -o- 74ad175 main

Status

Success

Total duration

32s

Artifacts

—

terraform-destroy.yml

on: workflow\_dispatch

✓ Terraform Destroy

20s

File Edit Selection View Go Run ... github-actions-lab-3 [WSL: Ubuntu-24.04]

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

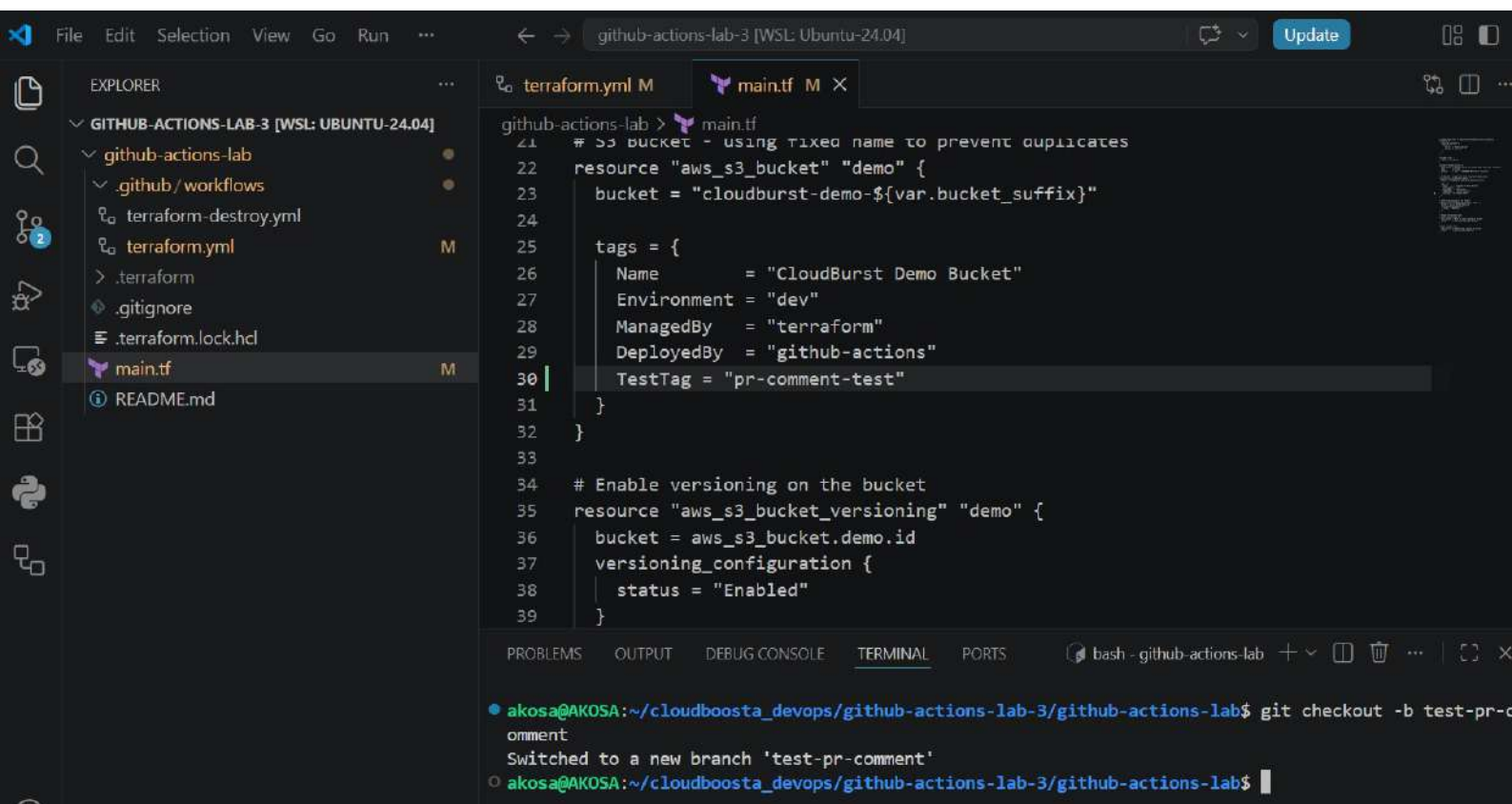
- github-actions-lab
  - .github/workflows
    - terraform-destroy.yml
    - terraform.yml M
  - .terraform
  - .gitignore
  - .terraform.lock.hcl
  - main.tf
  - README.md

terraform.yml M X

```
github-actions-lab > .github > workflows > terraform.yml
18   name: Terraform Plan & Apply
19   runs-on: ubuntu-latest
20
21   # Required for PR comments
22   permissions:
23     contents: read
24     pull-requests: write
25
26   steps:
27     - name: Checkout repository
28       uses: actions/checkout@v4
29
30     - name: Setup Terraform
31       uses: hashicorp/setup-terraform@v3
32       with:
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS bash - github-actions-lab

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$



File Edit Selection View Go Run ... github-actions-lab-3 [WSL: Ubuntu-24.04] Update

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

- github-actions-lab
  - .github/workflows
    - terraform-destroy.yml
    - terraform.yml
  - .terraform
  - .gitignore
  - .terraform.lock.hcl
  - main.tf
  - README.md

terraform.yml

main.tf

github-actions-lab > main.tf

```
21 # S3 bucket - using fixed name to prevent duplicates
22 resource "aws_s3_bucket" "demo" {
23     bucket = "cloudburst-demo-${var.bucket_suffix}"
24
25     tags = {
26         Name       = "CloudBurst Demo Bucket"
27         Environment = "dev"
28     }
29 }
```

PROBLEMS

OUTPUT

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bash - github-actions-lab

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$ git add .
git commit -m "Test PR comment feature"
git push origin test-pr-comment
[test-pr-comment 170e336] Test PR comment feature
2 files changed, 56 insertions(+), 21 deletions(-)
Enumerating objects: 11, done.
Counting objects: 100% (11/11), done.
Delta compression using up to 4 threads
Compressing objects: 100% (5/5), done.
Writing objects: 100% (6/6), 1.39 KiB | 710.00 KiB/s, done.
Total 6 (delta 3), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (3/3), completed with 3 local objects.
remote:
remote: Create a pull request for 'test-pr-comment' on GitHub by visiting:
remote: https://github.com/samuelakosaonyejekwe/github-actions-lab-3/pull/new/test-pr-comment
remote:
To https://github.com/samuelakosaonyejekwe/github-actions-lab-3.git
 \* [new branch] test-pr-comment -> test-pr-comment
akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$

🔍 Type to search

<>

Code

Issues

**Pull requests**

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⚠️

Some pull requests may be missing due to an [ongoing search incident](#), but no data is lost. Use the [API](#) or [GitHub CLI](#) (gh pr list) for complete pull request results.

Label issues and pull requests for new contributors

Dismiss

Now, GitHub will help potential first-time contributors [discover issues](#) labeled with [good first issue](#)

🔔

test-pr-comment had recent pushes 1 minute ago

Compare & pull request

Filters

🔍 is:pr is:open

🏷️ Labels 9

📌 Milestones 0

New pull request

📁

🔔 0 Open

✓ 1 Closed

Author

Label

Projects

Milestones

Reviews

Assignee

Sort

There aren't any open pull requests.

You could search [all of GitHub](#) or try an [advanced search](#).

💡 ProTip!

Exclude everything labeled [bug](#) with [-label:bug](#)

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📌 On April 24 we'll start using GitHub Copilot interaction data for AI model training unless you opt out. [Review this update](#) and manage your preferences in your [GitHub account settings](#). ✕

Comparing changes

Choose two branches to see what's changed or to start a new pull request. If you need to, you can also [compare across forks](#) or [learn more about diff comparisons](#).

🔍

base: main

←

compare: test-pr-comment

✓ Able to merge. These branches can be automatically merged.

👤 Add a title \*

Add test tag to S3 bucket

Add a description

Write

Preview

H B I

Add your description here...

📄 Markdown is supported

📎 Paste, drop, or click to add files

👤 Reviewers

No reviews

👤 Assignees

No one—[assign yourself](#)

🏷️ Labels

None yet

📁 Projects

None yet

🏆 Milestone

No milestone

🔄 Development

Use [Closing keywords](#) in the description to automatically close issues

📖 Helpful resources

[GitHub Community Guidelines](#)

📌 Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

Create pull request

🔍 1 commit

📄 2 files changed

👤 1 contributor

🔍 Commits on Apr 30, 2026

🔍 Test PR comment feature

👤 samuelakosaonyejekwe committed 3 minutes ago

📄 1 / test-pr-comment

📄 Showing 2 changed files with 56 additions and 21 deletions.

Split Unified

📄 .github/workflows/terraform.yml

```
9 0      main
10 10
11 11     env:
12 -   AWS_REGION: eu-west-2
12 +   AWS_ACCESS_KEY_ID: ${ secrets.AWS_ACCESS_KEY_ID }
13 +   AWS_SECRET_ACCESS_KEY: ${ secrets.AWS_SECRET_ACCESS_KEY }
14 +   AWS_REGION: ${ secrets.AWS_REGION }
15
16 16     jobs:
17 17       terraform:
18 18         name: Terraform Plan & Apply
19 19         runs-on: ubuntu-latest
20 20
21 +   # Required for PR comments
22 +   permissions:
23 +     contents: read
24 +     pull-requests: write
25 +
26 26     steps:
27 27       - Step 1: Checkout code
28 28         name: Checkout repository
29 29         uses: actions/checkout@v4
30 30
31 31       - Step 2: Setup Terraform
32 32         name: Setup terraform
```

```

26 31      uses: hashicorp/setup-terraform@v1
27 32      with:
28 33          terraform_version: 1.10.0
29 34
30 35      - # Step 3: Configure AWS Credentials (CRITICAL: FTX)
31 36      - name: Configure AWS Credentials
32 37      - uses: aws-actions/configure-aws-credentials@v4
33 38      - with:
34 39          aws_access_key_id: ${ secrets.AWS_ACCESS_KEY_ID }
35 40          aws_secret_access_key: ${ secrets.AWS_SECRET_ACCESS_KEY }
36 41          aws_region: ${ env.AWS_REGION }
37 42
38 43      - # Step 4: Restore Terraform state cache
39 44      - name: Restore Terraform State
40 45      - uses: actions/cache/restore@v4
41 46      - with:
42 47
43 48      - # Step 5: Format (auto-fix instead of failing)
44 49      - name: terraform format
45 50      - run: terraform fmt -recursive
46 51
47 52      - # Step 6: Initialize
48 53      - name: Terraform Init
49 54      - id: init
50 55      - run: terraform init
51 56
52 57      - # Step 7: Validate
53 58      - name: Terraform Validate
54 59      - run: terraform validate
55 60
56 61      - id: validate
57 62      - run: terraform validate -no-color
58 63
59 64      - # Step 8: Plan
60 65      - name: Terraform Plan
61 66      - run: terraform plan -no-color
62 67
63 68      - id: plan
64 69      - run: terraform plan -no-color -out=tfplan
65 70      - continue-on-error: true
66 71
67 72      - name: Comment Plan on PR
68 73      - if: github.event_name == 'pull_request'
69 74      - uses: actions/github-script@v7
70 75      - env:
71 76          PLAN: ${ steps.plan.outputs.stdout }
72 77      - with:
73 78          github_token: ${ secrets.GITHUB_TOKEN }
74 79          script: |
75 80              const output = `### Terraform Plan Results
76 81
77 82              ### Format Check: \`${ steps.fmt.outcome }\`
78 83              ### Init: \`${ steps.init.outcome }\`
79 84              ### Validate: \`${ steps.validate.outcome }\`
80 85              ### Plan: \`${ steps.plan.outcome }\`
81 86
82 87              <details><summary>Show Plan Output</summary>
83 88
84 89              \`\`\`terraform
85 90              ${ process.env.PLAN }
86 91              \`\`\`
87 92
88 93              </details>
89 94
90 95              *Pushed by: ${ github.actor }*
91 96
92 97              github.rest.issues.createComment({
93 98                  issue_number: context.issue.number,
94 99                  owner: context.repo.owner,
95 100                 repo: context.repo.repo,
96 101                 body: output
97 102             })
98 103
99 104      - name: Plan Status Check
100 105      - if: steps.plan.outcome == 'failure'
101 106      - run: exit 1
102 107
103 108      - # Step 9: Apply (only on main push)
104 109      - name: Terraform Apply

```

```

66 101         if: github.ref == 'refs/heads/main' && github.event_name == 'push'
67 -         run: terraform apply -auto approve
102 +         run: terraform apply -auto approve tipian
68 103
69 -         # Step 10: Save terraform state
70 104         - name: Save Terraform State
71 105         if: github.ref == 'refs/heads/main' && github.event_name == 'push'
72 106         uses: actions/cache/save@v4

```

main.tf

```

27,6-127,7 @@ resource "aws_s3_bucket" "demo" {
27 27     Environment = "dev"
28 28     ManagedBy   = "terraform"
29 29     DeployedBy  = "github-actions"
30 +     TestTap    = "pe-connect-test"
31 31 }
32 32 }

```



On April 24 we'll start using GitHub Copilot interaction data for AI model training unless you opt out. [Review this update](#) and manage your preferences in your [GitHub account settings](#).

## Add test tag to S3 bucket #2

Ready to merge

Code

Open

 samuelakosaonyejekwe wants to merge 1 commit into `main` from `test-pr-comment`

Conversation 0

Commits 1

Checks 0

Files changed 2

+56 -21

 samuelakosaonyejekwe commented 1 minute ago 

Owner

No description provided.



 Test PR comment feature 

✓ 170e136

 github-actions Bot commented now

**Terraform Plan Results**

Format Check: **success**

Init: **success**

Validate: **success**

Plan: **success**

► Show Plan Output

Pushed by: @samuelakosaonyejekwe



Reviewers

No reviews

Still in progress? [Convert to draft](#)

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Notifications

Customize

Unsubscribe

You're receiving notifications because you were mentioned.

1 participant



Lock conversation

 All checks have passed  
1 successful check

 Terraform CI/CD / Terraform Plan & Apply (pull\_request) Successful in 17s

 No conflicts with base branch  
Merging can be performed automatically.

Merge pull request 

You can also merge this with the command line. [View command line instructions](#)

Still in progress? [Convert to draft](#)

 Add a comment

Write Preview

H B I         

Add your comment here...

 Markdown is supported  Paste, drop, or click to add files

Close pull request

Comment

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

ProTip! Add `.patch` or `.diff` to the end of URLs for Git's plaintext views.



Ready to merge

Conversation 0 Commits 1 Checks 0 Files changed 2 +56 -21

Owner \*\*\*



**Plan; success**

```
aws_s3_bucket.demo: Refreshing state... [id=cloudburst-demo-saa]

Note: Objects have changed outside of Terraform

Terraform detected the following changes made outside of Terraform since the
last "terraform apply" which may have affected this plan:

aws_s3_bucket.demo has been deleted
- resource "aws_s3_bucket" "demo" {
  - arn              = "arn:aws:s3:::cloudburst-demo-saa" -> null
  - id              = "cloudburst-demo-saa" -> null
  - tags            = {}
    "DeployedBy"    = "github-actions"
    "Environment"   = "dev"
    "ManagedBy"     = "Terraform"
    "Name"           = "CloudBurst Demo Bucket"
  }
  # (12 unchanged attributes hidden)

  # (4 unchanged blocks hidden)
}
```

Unless you have made equivalent changes to your configuration, or ignored the relevant attributes using `ignore_changes`, the following plan may include actions to undo or respond to these changes.

Terraform used the selected providers to generate the following execution plan. Resource actions are indicated with the following symbols:

- + create

Terraform will perform the following actions:

```
# aws_s3_bucket.demo will be created
resource "aws_s3_bucket" "demo" [
  + acceleration_status - (known after apply)
  + acl                  - (known after apply)
  + arn                  - (known after apply)
  + bucket               - "cloudburst-demo-sas"
  + bucket_domain_name   - (known after apply)
  + bucket_prefix        - (known after apply)
  + bucket_regional_domain_name - (known after apply)
  + force_destroy        = false
  + hosted_zone_id       - (known after apply)
  + id                   - (known after apply)
  + object_lock_enabled   - (known after apply)
```

Still in progress? Convert to draft

No one—assign yourself

None yet

None yet

No milestone

Successfully merging this pull request may close these issues.

None yet

Customize



You're receiving notifications because you were mentioned.

1 participant

1

 Lock conversation

```

+ policy - (known after apply)
+ region - (known after apply)
+ request_payer - (known after apply)
+ tags = {
  + "DeployedBy" - "github-actions"
  + "Environment" - "dev"
  + "ManagedBy" - "terraform"
  + "Name" - "CloudBurst Demo Bucket"
  + "TestTag" - "pr-comment-test"
}
+ tags_all = {
  + "DeployedBy" - "github actions"
  + "Environment" - "dev"
  + "ManagedBy" - "terraform"
  + "Name" - "CloudBurst Demo Bucket"
  + "TestTag" - "pr-comment-test"
}
+ website_domain - (known after apply)
+ website_endpoint - (known after apply)

+ cors_rule (known after apply)

+ grant (known after apply)

+ lifecycle_rule (known after apply)

+ logging (known after apply)

+ object_lock_configuration (known after apply)

+ replication_configuration (known after apply)

+ server_side_encryption_configuration (known after apply)

+ versioning (known after apply)

+ website (known after apply)
}

# aws s3 bucket versioning demo will be created
+ resource "aws_s3_bucket_versioning" "demo" {
  + bucket - (known after apply)
  + id - (known after apply)

  + versioning_configuration {
    + mfa_delete - (known after apply)
    + status - "enabled"
  }
}

```

Plan: 2 to add, 0 to change, 0 to destroy.

Changes to Outputs:

~ bucket\_arn = "arn:aws:s3:::cloudburst-demo-can" -> (known after apply)

Saved the plan to: tfplan

To perform exactly these actions, run the following command to apply:  
terraform apply "tfplan"

Pushed by: [@samuelakosaonyejekwe](#)



**All checks have passed**

1 successful check



**Terraform CI/CD / Terraform Plan & Apply (pull\_request)** Successful in 1/5



**No conflicts with base branch**

Merging can be performed automatically.

**Merge pull request**

You can also merge this with the command line. [View command line instructions](#).

Still in progress? [Convert to draft](#)



**Add a comment**

Write

Preview

H B I

Add your comment here...

Markdown is supported

Paste, drop, or click to add files

Close pull request

Comment

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

**ProTip!** Add [.patch](#) or [.diff](#) to the end of URLs for Git's plaintext views.



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Re-run all jobs

 Workflow file

Q Search logs



Ready to merge

Conversation 1 Commits 1 Checks 1 Files changed 2

+56 -21 000000

Owner ...



✓ 170p336



Cancel

Still in progress? Convert to draft



You're receiving notifications because you were mentioned.

1

 Lock conversation

 Paste, drop, or click to add files

Close pull request

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

 **ProTip!** Add comments to specific lines under [Files changed](#).



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On April 24 we'll start using GitHub Copilot interaction data for AI model training unless you opt out. [Review this update](#) and manage your preferences in your [GitHub account settings](#).

# Add test tag to S3 bucket #2

Code

Merged

 samuelakosaonyekwe merged 1 commit into `main` from `test-pr-comment` now

Conversation 1

Commits 1

Checks 1

Files changed 2

+56 -21

 samuelakosaonyekwe commented 15 hours ago 

Owner

No description provided.



 Test PR comment feature 

✓ 170e136

 github-actions Bot commented 15 hours ago

**Terraform Plan Results**

Format Check: **success**

Init: **success**

Validate: **success**

Plan: **success**

► Show Plan Output

Pushed by: [@samuelakosaonyekwe](#)



Reviewers

No reviews

Still in progress? [Convert to draft](#)

Assignees

No one—[assign yourself](#)

Labels

None yet

Projects

None yet

Milestone

No milestone

Development

Successfully merging this pull request may close these issues.

None yet

Notifications 

Customize

Unsubscribe

You're receiving notifications because you modified the open/close state.

 samuelakosaonyekwe merged commit `sed2a06` into `main` now

1 check passed

View details

Revert

 Pull request successfully merged and closed

You're all set — the `test-pr-comment` branch can be safely deleted.

Delete branch

 Add a comment

Write

Preview

H B I   <>      @   

Add your comment here...

Markdown is supported

 Paste, drop, or click to add files

Comment

Remember, contributions to this repository should follow our [GitHub Community Guidelines](#).

**ProTip!** Add comments to specific lines under [Files changed](#).

samuelakosaonyejekwe / github-actions-lab-3

Type to search

<> Code

Issues

Pull requests 1

Agents

Actions

Projects

Wiki

Security and quality

Insights

Settings

On April 24 we'll start using GitHub Copilot interaction data for AI model training unless you opt out. [Review this update](#) and manage your preferences in your [GitHub account settings](#).

Actions

New workflow

All workflows

Terraform CI/CD

Terraform Destroy

Management

Caches

Attestations

Runners

Usage metrics

Performance metrics

All workflows

Showing runs from all workflows

9 workflow runs

Workflow Event Status Branch Actor

✓ Merge pull request #2 from samuelakosaonyejekwe/t...

Terraform CI/CD #12: Commit 3ed2af6 pushed by samuelakosaonyejekwe

main

1 minute ago

33s

...

✓ Add test tag to S3 bucket

Terraform CI/CD #11: Pull request #2 opened by samuelakosaonyejekwe

test-pr-comment

Apr 30, 3:59 PM GMT+3

23s

...

✓ Terraform Destroy

Terraform Destroy #1: Manually run by samuelakosaonyejekwe

main

Apr 30, 3:58 PM GMT+3

12s

...

✓ Add manual destroy workflow

Terraform CI/CD #10: Commit 74ad175 pushed by samuelakosaonyejekwe

main

Apr 30, 3:53 PM GMT+3

38s

...

✓ Add workflow status badge

Terraform CI/CD #9: Commit 9402b51 pushed by samuelakosaonyejekwe

main

Apr 30, 3:27 PM GMT+3

19s

...

✓ Merge pull request #1 from samuelakosaonyejekw...

Terraform CI/CD #8: Commit b8f125c pushed by samuelakosaonyejekwe

main

Apr 30, 3:08 PM GMT+3

16s

...

✓ Enable S3 bucket versioning

Terraform CI/CD #7: Pull request #1 opened by samuelakosaonyejekwe

add-bucket-versioning

Apr 30, 2:59 PM GMT+3

20s

...

✓ Add GitHub Actions workflow for Terraform

Terraform CI/CD #6: Commit 80c13a8 pushed by samuelakosaonyejekwe

main

Apr 30, 2:24 PM GMT+3

19s

...

✓ Fix S3 bucket naming and region

Terraform CI/CD #4: Commit 8da9b01 pushed by samuelakosaonyejekwe

main

Apr 30, 2:15 PM GMT+3

40s

...

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samuelakosaonyejekwe / github-actions-lab-3

Q Type / to search

+

<> Code

Issues

Pull requests 1

Agents

Actions

Projects

Wiki

Security and quality

Insights

Settings

On April 24 we'll start using GitHub Copilot interaction data for AI model training unless you opt out. [Review this update](#) and manage your preferences in your [GitHub account settings](#).

Actions

New workflow

All workflows

Terraform CI/CD

Terraform Destroy

Management

All workflows

Showing runs from all workflows

9 workflow runs

Workflow Event Status Branch Actor

Merge pull request #2 from samuelakosaonyejekwe/... 

main

Terraform CI/CD #12: Commit [3ed2a66](#) pushed by [samuelakosaonyejekwe](#)

3 minutes ago

33s

Summary

All jobs

Terraform Plan & Apply

Run details

Usage

Workflow file

Terraform Plan & Apply

succeeded 3 minutes ago in 28s

Search logs

Terraform Apply

9s

1 ▶ Run terraform apply -auto-approve tfplan

9 aws\_s3\_bucket.demo: Creating...

10 aws\_s3\_bucket.demo: Creation complete after 5s [id=cloudburst-demo-sao]

11 aws\_s3\_bucket\_versioning.demo: Creating...

12 aws\_s3\_bucket\_versioning.demo: Creation complete after 2s [id=cloudburst-demo-sao]

13

14 Apply complete! Resources: 2 added, 0 changed, 0 destroyed.

15

16 Outputs:

17

18 bucket\_arn = "arn:aws:s3:::cloudburst-demo-sao"

19 bucket\_name = "cloudburst-demo-sao"

> Save Terraform State

2s

> Post Checkout repository

0s

> Complete job

0s

Amazon S3

> Buckets

Amazon S3

<

▼ Buckets

General purpose buckets

Directory buckets

Table buckets

General purpose buckets (12) Info

Refresh

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Find buckets by name

< 1 > ⚙

|                       | Name ▲              | AWS Region ▼              | Creation date ▼                   |
|-----------------------|---------------------|---------------------------|-----------------------------------|
| <input type="radio"/> | cloudburst-demo-sao | Europe (London) eu-west-2 | May 1, 2026, 07:37:32 (UTC+03:00) |

samuelakosaonyejekwe / github-actions-lab-3

Q Type to search

<> Code

Issues

Pull requests

Agents

Actions

Projects

Wiki

Security and quality

Insights

Settings

On April 24 we'll start using GitHub Copilot interaction data for AI model training unless you opt out. [Review this update](#) and manage your preferences in your [GitHub account settings](#).

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Models

Webhooks

Copilot

Environments

Codespaces

Pages

Security and quality

Advanced Security

Deploy keys

Secrets and variables

Integrations

GitHub Apps

Email notifications

Environments / Add

Name \*

staging

Configure environment

Environment 'staging' created.

## Environments / Configure staging

### Deployment protection rules

Collaborators

☐ Required reviewers

## Code and automation

☐ Wait timer

 Tags

Enable custom rules with GitHub Apps [Preview](#)

④ **Actions**

[Preview](#)

- ☒ Allow administrators to bypass configured protection rules

Save protection rules

## Deployment branches and tags

No restriction ▾

## Environment secrets

### Security and quality

 **Deploy keys**

This environment has no secrets.

Add environment secret

## Environment variables

This environment has no variables.

### Add environment variable

On April 24 we'll start using GitHub Copilot interaction data for AI model training unless you opt out. [Review this update](#) and manage your preferences in your [GitHub account settings](#).

×

General

Access

Collaborators

Moderation options

Code and automation

Branches

Tags

Rules

Actions

Models

Webhooks

Copilot

Environments

Codespaces

Pages

Security and quality

Advanced Security

Deploy keys

Secrets and variables

Integrations

GitHub Apps

Email notifications

Environments / Add

Name \*

production

Configure environment

On April 24 we'll start using GitHub Copilot interaction data for AI model training unless you opt out. [Review this update](#) and manage your preferences in your [GitHub account settings](#).

Environment "production" created.

- General
- Access
- Collaborators
- Moderation options
- Code and automation
- Branches
- Tags
- Rules
- Actions
- Models
- Webhooks
- Copilot
- Environments
- Codespaces
- Pages
- Security and quality
- Advanced Security
- Deploy keys
- Secrets and variables
- Integrations
- GitHub Apps
- Email notifications

## Environments / Configure production

**Deployment protection rules**  
Configure reviewers, timers, and custom rules that must pass before deployments to this environment can proceed.

☒ **Required reviewers**  
Specify people or teams that may approve workflow runs when they access this environment.

**Add up to 5 more reviewers**

Search for people or teams...

samuelakosaonyejekwe

X

☐ **Prevent self-review**  
Require a different approver than the user who triggered the workflow run.

☒ **Wait timer**  
Set an amount of time to wait before allowing deployments to proceed.

2

minutes

**Enable custom rules with GitHub Apps**

[Learn about existing apps](#) or [create your own protection rules](#) so you can deploy with confidence.

☒ **Allow administrators to bypass configured protection rules**

Save protection rules

**Deployment branches and tags**  
Limit which branches and tags can deploy to this environment based on rules or naming patterns.

No restriction

**Environment secrets**  
Secrets are encrypted environment variables. They are accessible only by GitHub Actions in the context of this environment by using the [secret context](#).

This environment has no secrets.

Add environment secret

**Environment variables**  
Variables are used for non-sensitive configuration data. They are accessible only by GitHub Actions in the context of this environment by using the [variable context](#).

This environment has no variables.

Add environment variable

## Environments

### New environment

You can configure environments with protection rules, variables, and secrets. [Learn more about configuring environments.](#)

U



Pages

- ❖ Secrets and variables

 Email notifications

File Edit Selection View Go Run ... github-actions-lab-3 [WSL: Ubuntu-24.04] Update

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

- github-actions-lab
  - .github
  - .terraform
  - .gitignore
  - .terraform.lock.hcl
  - main.tf
  - README.md

main.tf

github-actions-lab > main.tf21 # s3 bucket - using fixed name to prevent duplicates22 resource "aws\_s3\_bucket" "demo" {23 bucket = "cloudburst-demo-\${var.bucket\_suffix}"2425 tags = {26 Name = "CloudBurst Demo Bucket"27 Environment = "dev"28 ManagedBy = "terraform"29 DeployedBy = "github-actions"30 TestTag = "pr-comment-test"31 }32 }

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS bash - github-actions-lab

- akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$ git checkout main  
Switched to branch 'main'  
Your branch is up to date with 'origin/main'.
- akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$ git pull  
remote: Enumerating objects: 1, done.  
remote: Counting objects: 100% (1/1), done.  
remote: Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)  
Unpacking objects: 100% (1/1), 909 bytes | 113.00 KiB/s, done.  
From https://github.com/samuelakosaonyejekwe/github-actions-lab-3  
74ad175..3ed2a66 main -> origin/main  
Updating 74ad175..3ed2a66  
Fast-forward  
 .github/workflows/terraform.yml | 76 ++++++  
 main.tf | 1 +  
 2 files changed, 56 insertions(+), 21 deletions(-)

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$

OUTLINE

File Edit Selection View Go Run ... github-actions-lab-3 [WSL: Ubuntu-24.04]

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

- github-actions-lab
  - .github
  - .terraform
  - .gitignore
  - .terraform.lock.hcl
  - main.tf
  - README.md

main.tf

```
1 # Simple S3 bucket to demonstrate GitHub Actions automation
2 terraform {
3     required_providers {
4         aws = {
5             source = "hashicorp/aws"
6             version = "~> 5.0"
7         }
8     }
9 }
10
11 provider "aws" {
12     region = "eu-west-2"
13 }
14
15 variable "bucket_suffix" {
16     description = "Unique suffix for bucket name (use your initials)"
17     type        = string
18     default     = "sao" # CHANGED THIS to my initials!
19 }
20
21 # S3 Bucket - using fixed name to prevent duplicates
22 resource "aws_s3_bucket" "demo" {
23     bucket = "cloudburst-demo-${var.bucket_suffix}"
24
25     tags = {
26         Name          = "CloudBurst Demo Bucket"
27         Environment    = "dev"
28         ManagedBy      = "terraform"
29         DeployedBy     = "github-actions"
```

File Edit Selection View Go Run ... github-actions-lab-3 [WSL: Ubuntu-24.04]

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

- github-actions-lab
  - .github
  - .terraform
  - .gitignore
  - .terraform.lock.hcl
  - main.tf
  - README.md

main.tf

```
9 }
10
11 provider "aws" {
12   region = "eu-west-2"
13 }
14
15 variable "bucket_suffix" {
16   description = "Unique suffix for bucket name (use your initials)"
17   type        = string
18   default     = "sao" # CHANGED THIS to my initials!
19 }
20
21 # S3 Bucket - using fixed name to prevent duplicates
22 resource "aws_s3_bucket" "demo" {
23   bucket = "cloudburst-${var.environment}-${var.bucket_suffix}"
24
25   tags = {
26     Name           = "CloudBurst ${var.environment} Bucket"
27     Environment    = "dev"
28     ManagedBy      = "terraform"
29     DeployedBy     = "github-actions"
30     TestTag        = "pr-comment-test"
31   }
32 }
33
34 # Enable versioning on the bucket
35 resource "aws_s3_bucket_versioning" "demo" {
36   bucket = aws_s3_bucket.demo.id
37   versioning_configuration {
```

github-actions-lab-3 [WSL: Ubuntu-24.04]

EXPLORER

- GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]
  - github-actions-lab
    - .github/workflows
      - deploy-staging.yml U
      - terraform-destroy.yml
      - terraform.yml
    - .terraform
    - .gitignore
    - terraform.lock.hcl
    - main.tf M
    - README.md

main.tf M

deploy-staging.yml U X

github-actions-lab > .github > workflows > deploy-staging.yml

```
1 name: Deploy to Staging
2
3 on:
4   push:
5     branches:
6       - main
7
8 env:
9   AWS_ACCESS_KEY_ID: ${ secrets.AWS_ACCESS_KEY_ID }
10  AWS_SECRET_ACCESS_KEY: ${ secrets.AWS_SECRET_ACCESS_KEY }
11  AWS_REGION: ${ secrets.AWS_REGION }
12
13 jobs:
14   deploy-staging:
15     name: Deploy to Staging
16     runs-on: ubuntu-latest
17     environment: staging
18
19     steps:
20       - name: Checkout
21         uses: actions/checkout@v4
```

PROBLEMS OUTPUT DEBUG CONSOLE TERMINAL PORTS

bash - github-actions-lab

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$

FileEditSelectionViewGoRun...github-actions-lab-3 [WSL: Ubuntu-24.04]

EXPLORER

GITHUB-ACTIONS-LAB 3 [WSL: UBUNTU-24.04]

github-actions-lab

.github/workflows

deploy-production.ymlU

deploy-staging.ymlU

terraform-destroy.yml

terraform.yml

.terraform

.gitignore

.terraform.lock.hcl

main.tfM

README.md

main.tfM

deploy-staging.ymlU

deploy-production.ymlU

github-actions-lab > .github > workflows > deploy-production.yml

1name: Deploy to Production

2

3on:

4  workflow\_dispatch:

5    inputs:

6      confirm:

7        description: 'Type "deploy" to confirm production deployment'

8        required: true

9        default: ''

10

11env:

12  AWS\_ACCESS\_KEY\_ID: \${ secrets.AWS\_ACCESS\_KEY\_ID }}

13  AWS\_SECRET\_ACCESS\_KEY: \${ secrets.AWS\_SECRET\_ACCESS\_KEY }}

14  AWS\_REGION: \${ secrets.AWS\_REGION }}

15

16jobs:

17  plan:

18    name: Plan Production Changes

19    runs-on: ubuntu-latest

20    outputs:

21      plan-output: \${ steps.plan.outputs.stdout }}

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

bash - github-actions-lab

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$

FileEditSelectionViewGoRun...

github-actions-lab-3 [WSL: Ubuntu-24.04]

Update

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

github-actions-lab

github / workflows

deploy-production.yml

deploy-staging.yml

terraform-destroy.yml

terraform.yml

.terraform

.gitignore

.terraform.lock.hcl

main.tf

README.md

main.tf

deploy-staging.yml

deploy-production.yml X

github-actions-lab > .github > workflows > deploy-production.yml

1

2

3

4

5

6

7

8

name: Deploy to Production

on:

workflow\_dispatch:

inputs:

confirm:

description: 'Type "deploy" to confirm production deployment'

required: true

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

bash - github-actions-lab

+

▾

□

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$ git add .

git commit -m "Add environment-specific workflows"

git push origin main

[main 0fc02b9] Add environment-specific workflows

3 files changed, 148 insertions(+), 2 deletions(-)

create mode 100644 .github/workflows/deploy-production.yml

create mode 100644 .github/workflows/deploy-staging.yml

Enumerating objects: 11, done.

Counting objects: 100% (11/11), done.

Delta compression using up to 4 threads

Compressing objects: 100% (6/6), done.

Writing objects: 100% (7/7), 1.38 KiB | 235.00 KiB/s, done.

Total 7 (delta 3), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (3/3), completed with 2 local objects.

To https://github.com/samuelakosaonyekwe/github-actions-lab-3.git

3ed2a66..0fc02b9 main -> main

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$

samuelakosaonyejekwe / github-actions-lab-3

Q

Type / to search

<> CodeIssuesPull requestsAgentsActionsProjectsWikiSecurity and qualityInsightsSettings

On April 24 we'll start using GitHub Copilot interaction data for AI model training unless you opt out. [Review this update](#) and manage your preferences in your [GitHub account settings](#).

Workflow run deleted successfully.

Actions

New workflow

All workflows

Deploy to Production

Deploy to Staging

Terraform CI/CD

Terraform Destroy

Management

Caches

Deployments

Attestations

Runners

Usage metrics

Performance metrics

All workflows

Showing runs from all workflows

Filter workflow runs

11 workflow runs

WorkflowEventStatusBranchActor

✓ Add environment-specific workflows

Deploy to Staging #3: Commit 65f9d08 pushed by samuelakosaonyejekwe

main

1 minute ago33s

...

✓ Add environment-specific workflows

Terraform CI/CD #15: Commit 65f9d08 pushed by samuelakosaonyejekwe

main

1 minute ago12s

...

✓ Merge pull request #2 from samuelakosaonyejekwe/t...

Terraform CI/CD #12: Commit 3ed2a66 pushed by samuelakosaonyejekwe

main

1 hour ago33s

...

✓ Add test tag to S3 bucket

Terraform CI/CD #11: Pull request #2 opened by samuelakosaonyejekwe

test-pr-branch

Apr 30, 3:59 PM GMT+323s

...

✓ Terraform Destroy

Terraform Destroy #1: Manually run by samuelakosaonyejekwe

main

Apr 30, 3:38 PM GMT+312s

...

✓ Add manual destroy workflow

Terraform CI/CD #10: Commit 74ad1f3 pushed by samuelakosaonyejekwe

main

Apr 30, 3:33 PM GMT+338s

...

✓ Add workflow status badge

Terraform CI/CD #9: Commit 9402b51 pushed by samuelakosaonyejekwe

main

Apr 30, 3:27 PM GMT+339s

...

✓ Merge pull request #1 from samuelakosaonyejekw...

Terraform CI/CD #8: Commit b6f175c pushed by samuelakosaonyejekwe

main

Apr 30, 3:08 PM GMT+336s

...

✓ Enable S3 bucket versioning

Terraform CI/CD #7: Pull request #1 opened by samuelakosaonyejekwe

add-bucket-versioning

Apr 30, 2:59 PM GMT+320s

...

✓ Add GitHub Actions workflow for Terraform

Terraform CI/CD #6: Commit 8cc93a8 pushed by samuelakosaonyejekwe

main

Apr 30, 2:24 PM GMT+339s

...

✓ Fix S3 bucket naming and region

Terraform CI/CD #4: Commit 8da9b01 pushed by samuelakosaonyejekwe

main

Apr 30, 2:15 PM GMT+347s

...

Actions

New workflow

All workflows

- Deploy to Production
- Deploy to Staging
- Terraform CI/CD
- Terraform Destroy

Management

Caches

All workflows

Showing runs from all workflows

Filter workflow runs

| 11 workflow runs |                                                                                                     | Workflow | Event | Status | Branch | Actor             |
|------------------|-----------------------------------------------------------------------------------------------------|----------|-------|--------|--------|-------------------|
| ✓                | Add environment-specific workflows                                                                  |          | main  |        |        | 3 minutes ago ... |
|                  | Deploy to Staging #3: Commit <a href="#">65f9d09</a> pushed by <a href="#">samuelakosaonyejekwe</a> |          |       |        |        |                   |
| ✓                | Add environment-specific workflows                                                                  |          | main  |        |        | 3 minutes ago ... |
|                  | Terraform CI/CD #15: Commit <a href="#">65f9d09</a> pushed by <a href="#">samuelakosaonyejekwe</a>  |          |       |        |        |                   |

Summary

All jobs

Deploy to Staging

Run details

Usage

Workflow file

Deploy to Staging

succeeded 7 minutes ago in 24s

Search logs

Refresh

Settings

Terraform Apply8s

82 + bucket\_arn = (known after apply)

83 + bucket\_name = "cloudburst-staging-sao"

84 aws\_s3\_bucket.demo: Creating...

85 aws\_s3\_bucket.demo: Creation complete after 3s [id=cloudburst-staging-sao]

86 aws\_s3\_bucket\_versioning.demo: Creating...

87 aws\_s3\_bucket\_versioning.demo: Creation complete after 2s [id=cloudburst-staging-sao]

88

89 Apply complete! Resources: 2 added, 0 changed, 0 destroyed.

90

91 Outputs:

92

93 bucket\_arn = "arn:aws:s3:::cloudburst-staging-sao"

94 bucket\_name = "cloudburst-staging-sao"

> Save Terraform State4s

> Deployment Summary0s

> Post Checkout0s

> Complete job0s

Summary

All jobs

Terraform Plan & Apply

Run details

Usage

Workflow file

Terraform Plan & Apply

succeeded 9 minutes ago in 28s

Search logs

Terraform Apply

8s

10

aws\_s3\_bucket.demo: Destruction complete after 0s

11

aws\_s3\_bucket.demo: Creating...

12

aws\_s3\_bucket.demo: Creation complete after 4s [id=cloudburst-dev-sao]

13

aws\_s3\_bucket\_versioning.demo: Creating...

14

aws\_s3\_bucket\_versioning.demo: Creation complete after 2s [id=cloudburst-dev-sao]

15

16

Apply complete! Resources: 2 added, 0 changed, 1 destroyed.

17

18

Outputs:

19

20

bucket\_arn = "arn:aws:s3:::cloudburst-dev-sao"

21

bucket\_name = "cloudburst-dev-sao"

>

Save Terraform State

2s

>

Post Checkout repository

0s

>

Complete job

0s

Amazon S3 > Buckets

Amazon S3

Buckets

General purpose buckets

Directory buckets

Table buckets

Vector buckets

Files

File systems

General purpose buckets

All AWS Regions

Directory buckets

General purpose buckets (13)

Info

Refresh

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

cloudburst

X

2 matches

< 1 >

Settings

|                       | Name                   | AWS Region                | Creation date                     |
|-----------------------|------------------------|---------------------------|-----------------------------------|
| <input type="radio"/> | cloudburst-dev-sao     | Europe (London) eu-west-2 | May 1, 2026, 08:34:34 (UTC+03:00) |
| <input type="radio"/> | cloudburst-staging-sao | Europe (London) eu-west-2 | May 1, 2026, 08:34:36 (UTC+03:00) |

samuelakosaonyekwe / github-actions-lab-3

Q Type to search

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Deploy to Staging

Terraform CI/CD

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Deploy to Production

deploy-production.yml

0 workflow runs

Event

Status

Branch

Actor

This workflow has a workflow\_dispatch event trigger.

Run workflow

Use workflow from

Branch: main

Type "deploy" to confirm production deployment

deploy

Run workflow

This workflow has no runs:

Cancel workflow

## All jobs



 Workflow file

## Waiting

## Review deployments

## on: workflow\_dispatch



```
# aws_s3_bucket.demo will be created
+ resource aws_s3_bucket demo {
  + acceleration_status = {known after apply}
  + acl                 = {known after apply}
  + arn                 = {known after apply}
  + bucket              = cloudburst-production-sao
  + bucket_domain_name = {known after apply}
  + bucket_prefix       = {known after apply}
  + bucket_regional_domain_name = {known after apply}
  + force_destroy       = false
  + hosted_zone_id      = {known after apply}
  + id                  = {known after apply}
  + object_lock_enabled = {known after apply}
  + policy              = {known after apply}
  + region              = {known after apply}
  + request_payer       = {known after apply}
  + tags                = {
    + DeployedBy = github-actions
    + Environment = production
    + ManagedBy   = terraform
    + Name        = CloudBurst production Bucket
    + TestTag     = pr-comment-test
  }
  + tags_all = {
    + DeployedBy = github-actions
    + Environment = production
    + ManagedBy   = terraform
    + Name        = CloudBurst production Bucket
    + TestTag     = pr-comment-test
  }
  + website_domain = {known after apply}
  + website_endpoint = {known after apply}
```

```
+ cors_rule (known after apply)

+ grant (known after apply)

+ lifecycle_rule (known after apply)

+ logging (known after apply)

+ object_lock_configuration (known after apply)

+ replication_configuration (known after apply)

+ server_side_encryption_configuration (known after apply)

+ versioning (known after apply)

+ website (known after apply)
}

# aws_s3_bucket_versioning.demo will be created
+ resource aws_s3_bucket_versioning demo {
  + bucket = (known after apply)
  + id     = (known after apply)

  + versioning_configuration {
    + mfa_delete = (known after apply)
    + status     = Enabled
  }
}
```

Plan: 2 to add, 0 to change, 0 to destroy.

Changes to Outputs:

```
+ bucket_arn = (known after apply)
+ bucket_name = cloudburst-production-sao
```

Note: You didn't use the -out option to save this plan, so Terraform can't guarantee to take exactly these actions if you run terraform apply now.

[Job summary generated at run-time](#)

### Deployment protection rules

Reviewers, timers, and other rules protecting deployments in this run

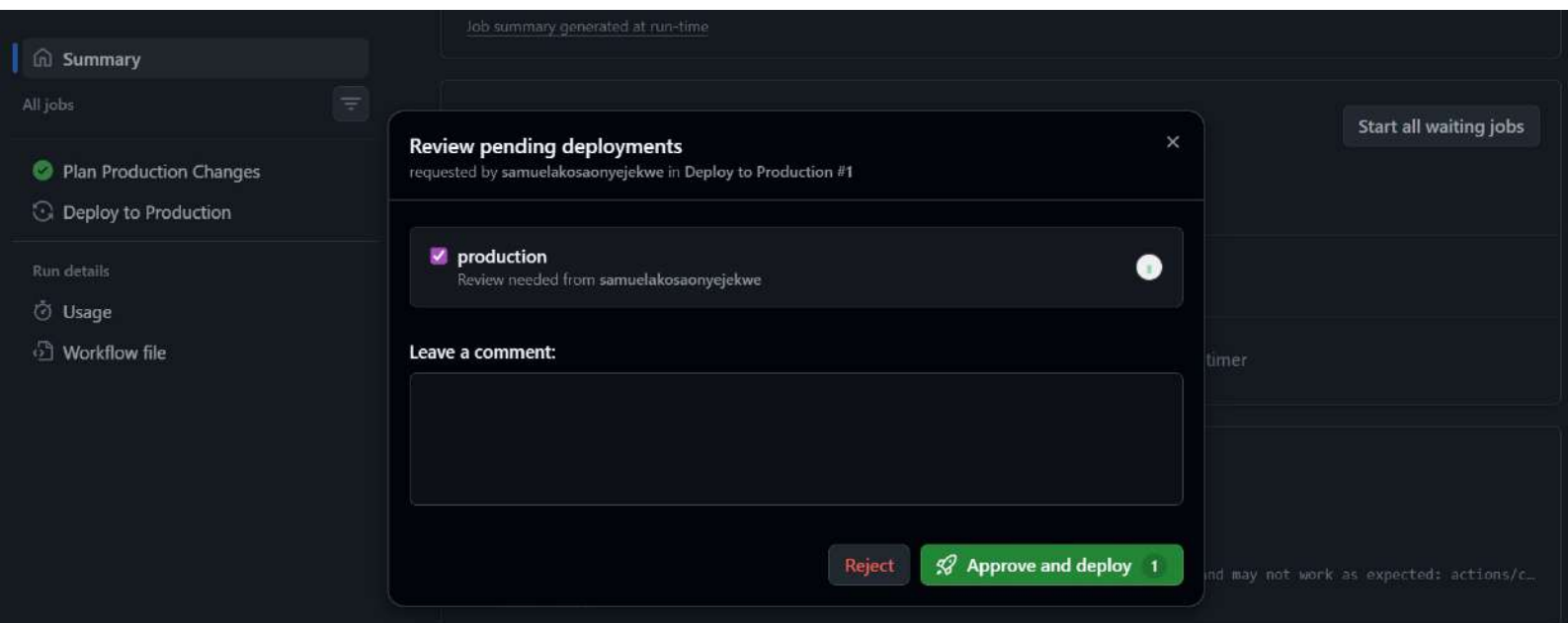
Start all waiting jobs

| Event                                                                                                                             | Environments | Comment             |
|-----------------------------------------------------------------------------------------------------------------------------------|--------------|---------------------|
|  <b>samuelakosaonyekwe</b><br>requested review | production   | -                   |
|  <b>Wait timer</b><br>waiting                  | production   | 2 minute wait timer |

### Annotations

1 warning

 **Plan Production Changes**  
kodo.js 20 actions are deprecated. The following actions are running on Node.js 20 and may not work as expected: actions/chr...  
[Show more](#)



The deployments have been approved. ✕

← Deploy to Production

 **Deploy to Production** #1

Re-run all jobs ⋮

-  **Summary**
- All jobs 

-  Plan Production Changes
-  Deploy to Production

- Run details
-  Usage
  -  Workflow file

|                                                                                                        |                                                                                                               |         |                |           |
|--------------------------------------------------------------------------------------------------------|---------------------------------------------------------------------------------------------------------------|---------|----------------|-----------|
| Manually triggered 5 minutes ago                                                                       |                                                                                                               | Status  | Total duration | Artifacts |
|  samuelakosaonyekwe |  65f9d09 <span>main</span> | Success | <u>5m 25s</u>  | —         |

**deploy-production.yml**  
on: workflow\_dispatch

 **Plan Production Changes** 15s

 **Deploy to Production** 28s

Amazon S3

> Buckets

Amazon S3

<

▼ Buckets

General purpose buckets

Directory buckets

Table buckets

Vector buckets

▼ Files

File content

New

General purpose buckets (14) Info

Refresh

Copy ARN

Empty

Delete

Create bucket

Buckets are containers for data stored in S3.

Q cloudburst

X

3 matches

< 1 >

Settings

|                       | Name                                      | ▲ | AWS Region                | ▼ | Creation date                     | ▼ |
|-----------------------|-------------------------------------------|---|---------------------------|---|-----------------------------------|---|
| <input type="radio"/> | <a href="#">cloudburst-dev-sao</a>        |   | Europe (London) eu-west-2 |   | May 1, 2026, 08:34:34 (UTC+03:00) |   |
| <input type="radio"/> | <a href="#">cloudburst-production-sao</a> |   | Europe (London) eu-west-2 |   | May 1, 2026, 08:57:16 (UTC+03:00) |   |
| <input type="radio"/> | <a href="#">cloudburst-staging-sao</a>    |   | Europe (London) eu-west-2 |   | May 1, 2026, 08:34:36 (UTC+03:00) |   |

FileEditSelectionViewGoRun...

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

github-actions-lab

.github/workflows

deploy-production.yml

deploy-staging.yml

destroy-all.yml

terraform-destroy.yml

terraform.yml

terraform

.gitignore

.terraform.lock.hcl

main.tf

README.md

main.tf

destroy-all.yml

deploy-staging.yml

deploy-production.yml

github-actions-lab > .github > workflows > destroy-all.yml

1name: Destroy All Environments

2

3on:

4  workflow\_dispatch:

5    inputs:

6      confirm:

7        description: 'Type "destroy" to confirm'

8        required: true

9

10  env:

11    AWS\_ACCESS\_KEY\_ID: \${ secrets.AWS\_ACCESS\_KEY\_ID }

12    AWS\_SECRET\_ACCESS\_KEY: \${ secrets.AWS\_SECRET\_ACCESS\_KEY }

13    AWS\_REGION: \${ secrets.AWS\_REGION }

14

15  jobs:

16    destroy-demo:

17      name: Destroy Demo

18      runs-on: ubuntu-latest

19      if: github.event.inputs.confirm == 'destroy'

20      steps:

21        - name: Configure AWS Credentials

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

bash - github-actions-lab

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$

File Edit Selection View Go Run ...

github-actions-lab-3 [WSL: Ubuntu-24.04]

Update

EXPLORER

GITHUB-ACTIONS-LAB-3 [WSL: UBUNTU-24.04]

github-actions-lab

.github/workflows

deploy-production.yml

deploy-staging.yml

destroy-all.yml

terraform-destroy.yml

terraform.yml

.terraform

.gitignore

.terraform.lock.hcl

main.tf

README.md

main.tf

destroy-all.yml

deploy-staging.yml

deploy-production.yml

github-actions-lab > .github > workflows > destroy-all.yml

```
1 name: Destroy All Environments
2
3 on:
4   workflow_dispatch:
```

PROBLEMS

OUTPUT

DEBUG CONSOLE

TERMINAL

PORTS

bash - github-actions-lab

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$ git add

git commit -m "destroy all resources across environments"

git push origin main

[main b281396] destroy all resources across environments

1 file changed, 109 insertions(+)

create mode 100644 .github/workflows/destroy-all.yml

Enumerating objects: 8, done.

Counting objects: 100% (8/8), done.

Delta compression using up to 4 threads

Compressing objects: 100% (4/4), done.

Writing objects: 100% (5/5), 1.15 KiB | 293.00 KiB/s, done.

Total 5 (delta 2), reused 0 (delta 0), pack-reused 0

remote: Resolving deltas: 100% (2/2), completed with 2 local objects.

To https://github.com/samuelakosaonyejekwe/github-actions-lab-3.git

65f9d09..b281396 main -> main

akosa@AKOSA:~/cloudboosta\_devops/github-actions-lab-3/github-actions-lab\$

New workflow

## Terraform Destroy

- Performance metrics

Q Filter workflow runs

Terraform CI/CD #1: Commit 8da9b01 pushed by samuelakusamirajawe

samuelakosaonyekwe / github-actions-lab-3

Q Type to search

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Usage metrics

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Destroy All Environments

destroy-all.yml

0 workflow runs

Event Status Branch Actor

This workflow has a workflow\_dispatch event trigger.

Run workflow

Use workflow from

Branch: main

Type "destroy" to confirm

destroy

Run workflow

This workflow has no runs:

✓ Destroy All Environments #1

Re-run all jobs

...

Summary

All jobs



- ✓ Destroy Demo
- ✓ Destroy Dev
- ✓ Destroy Staging
- ✓ Destroy Production

Run details

Usage

Manually triggered now



samuelakosaonyekwe -o- 281dbd5 main

Status

Success

Total duration

25s

Artifacts

-

destroy-all.yml

on: workflow\_dispatch

- |                      |     |
|----------------------|-----|
| ✓ Destroy Demo       | 5s  |
| ✓ Destroy Dev        | 12s |
| ✓ Destroy Production | 19s |
| ✓ Destroy Staging    | 18s |

Amazon S3

Buckets

General purpose buckets

Directory buckets

Table buckets

Vector buckets

Files

General purpose buckets (11) Info

Buckets are containers for data stored in S3.

cloudburst

0 matches

| Name | AWS Region | Creation date |
|------|------------|---------------|
|------|------------|---------------|

No matches  
We can't find a match.

Clear filters

Copy ARN Empty Delete Create bucket