

Terraform in CI/CD: Safe Deployments Without Fear

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Who Am I

- Senior Platform Engineer
- AWS | Kubernetes | Terraform
- Building production platforms
- Community learner & speaker

Why Infra CI/CD Is Scary

1

Infra changes
have big blast
radius

2

Rollback is not
always easy

3

One wrong apply
can impact
production system

Common Anti-Patterns

Auto apply
on merge

No plan
visibility

No
approvals
for prod

Local state
or no locking

What Safe Looks Like



Plan before apply



Policy & security
checks

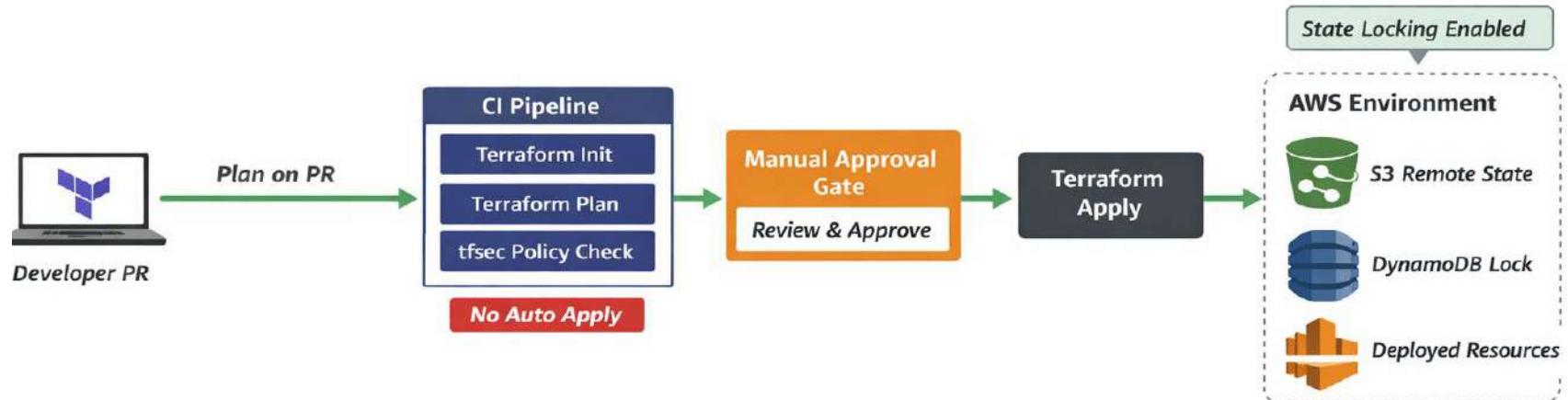


Human approval for
prod



Protected state

Safe Terraform CI/CD Workflow



Key Design Principles

Separate
plan and
apply

Immutable
pipelines

Environment
isolation

Least
privilege for
CI

Demo Time

What you'll see:

- PR triggers Terraform plan
- Approval gate
- Apply only after approval

Key Takeaways

- Never auto-apply on PR
- Always review plan
- Guardrails > speed



Thank You
Questions?

Let's
connect!



Scan me!