

Terraform in CI/CD: Safe Deployments Without Fear

HashiCorp User Group
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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

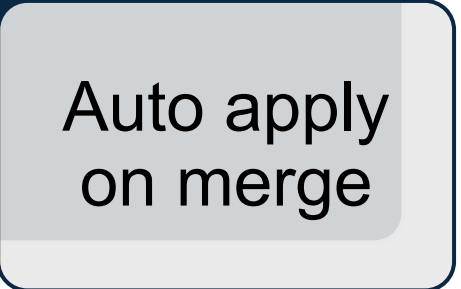
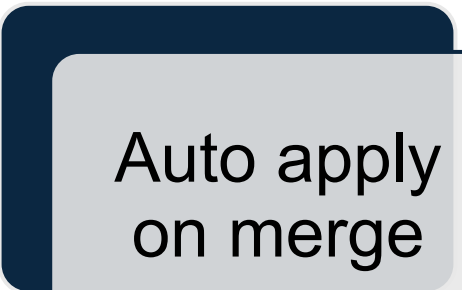
Rollback is not
always easy

3

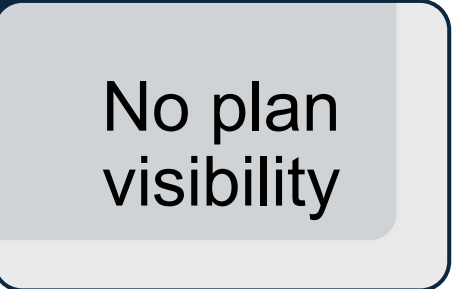
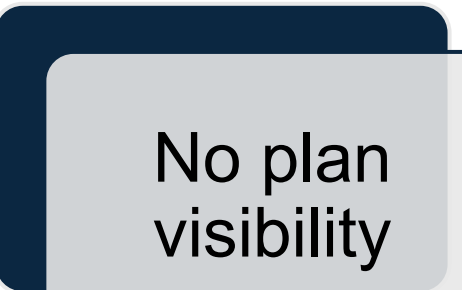
One wrong apply
can impact
production system



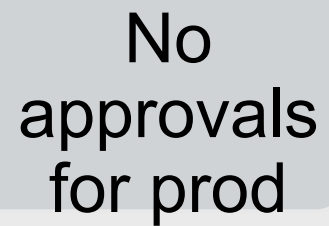
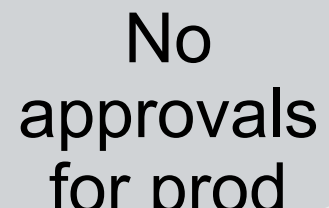
Common Anti-Patterns



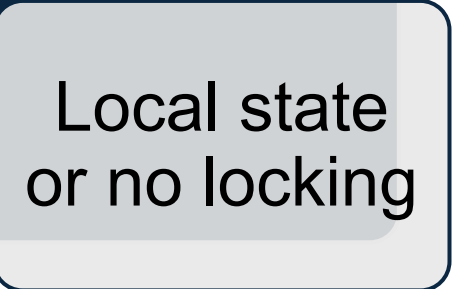
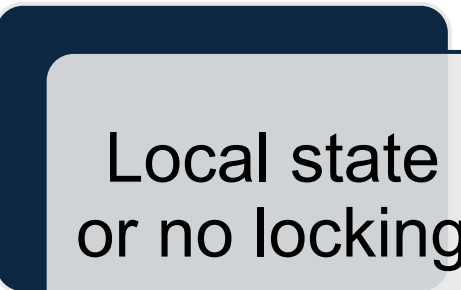
Auto apply
on merge



No plan
visibility



No
approvals
for prod



Local state
or no locking

What Safe Looks Like



Plan before apply



Human approval for
prod



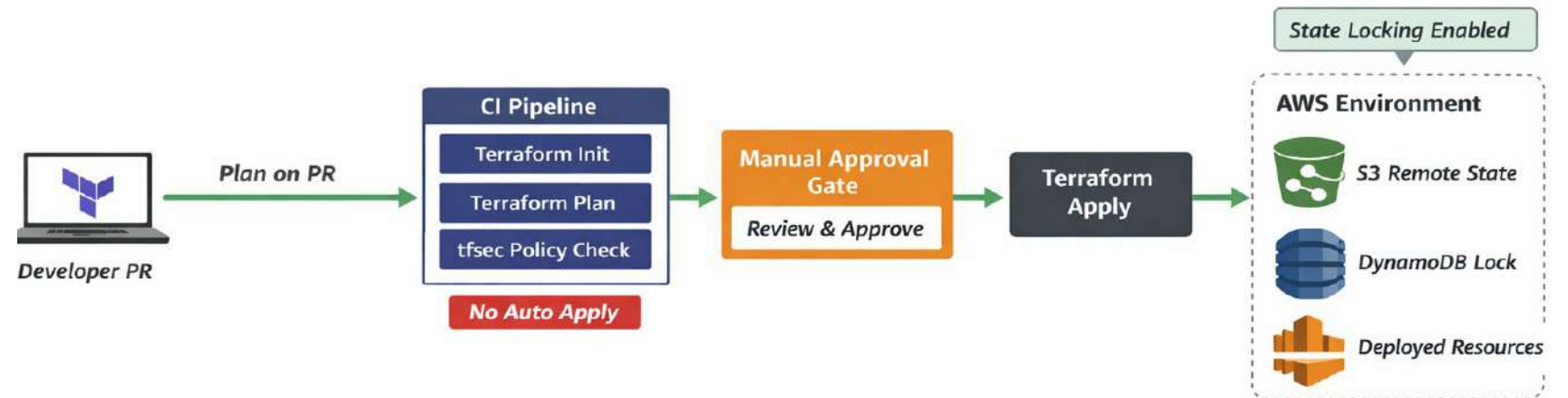
Policy & security
checks



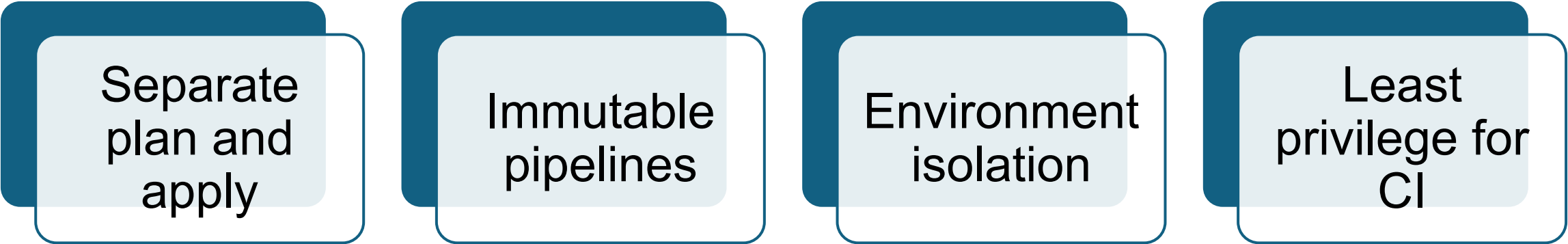
Protected state

Safe Terraform CI/CD Workflow

CI/CD
Architecture



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 Takeaway s

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



Thank You
Questions?

Let's
connect!



Scan me!