

■ HANDBOOK CHEATSHEET

Quick reference for One-Click Kubernetes Deployment with Terraform, GitHub Actions, and Kubernetes.

■ Workflows Overview

1. Deployment Workflow (deploy-k8s.yml) → Infra + Apps + Security Scan
2. Delete Workflow (delete-k8s-applications.yml) → Safe App Removal
3. Stress Test Workflow (stress-test.yml) → Load/Resiliency Testing

■ Key Parameters

- **environment** → dev/test
- **action** → apply / destroy / refresh
- **provider** → google / openai (for k8sGPT)
- **run_security_scan** → true/false
- **run_terraform** → true/false
- **run_application_deployment** → true/false
- **dry_run** (delete workflow) → true/false
- **confirm** (delete workflow) → must be true for deletion

■ Example Flows

- **Scan Only** → run_security_scan=true
- **Infra Only** → run_terraform=true
- **Apps Only** → run_application_deployment=true
- **Full Deploy** → run_terraform=true + run_application_deployment=true + action=apply
- **Destroy** → action=destroy + run_terraform=true
- **Refresh** → action=refresh + run_terraform=true
- **Stress Test** → run_stress_test=true (executes load tests against apps)

■ Workflow Diagrams (Summary)

- Deployment Workflow → Security Scan → Terraform → App Deploy
- Delete Workflow → Dry Run → Confirm → Delete Apps
- Stress Test Workflow → Deploy Tools → Run Load Test → Report Results