GitOps and Platform Engineering for Self-Service Infrastructure

Establishment of a platform engineering practice with GitOps-driven workflows that enable developers to self-service compliant infrastructure and application deployments through curated templates and automated guardrails.

PRACTICE

DevSecOps and Platform Engineering

CLIENT PROFILE

Enterprise IT organization seeking to provide development teams with self-service infrastructure while maintaining security, compliance, and operational guardrails

Challenge

- Developers blocked by infrastructure request queues and manual provisioning processes
- Shadow IT emerging as teams work around slow central IT processes
- Difficulty balancing developer agility with security and compliance requirements

Approach

- Build an internal developer platform with curated, pre-approved infrastructure templates
- Implement GitOps workflows where Git repositories are the single source of truth for desired state
- Establish policy-as-code guardrails that enforce security and compliance automatically
- Create golden paths for common application patterns that embed best practices by default

Typical Outcomes

- Developer self-service reducing infrastructure request lead time from days to minutes
- Reduced shadow IT through attractive, compliant platform offerings
- Consistent security and compliance enforcement without manual gate reviews

Procurement Paths

- DoD ESI for GitLab platform licensing
- NASA SEWP V and SEWP VI for platform infrastructure
- GSA MAS for platform engineering services

Compare vehicles and ordering steps on **How to buy**.

Partner Technology Examples

- GitLab
- Red Hat
- Spectro Cloud
- Rancher Government Solutions

This is a representative use case. To request a briefing or a quote, contact Norseman Defense Technologies at 410.579.8600 or sales@norseman.com.