Container Orchestration and Kubernetes Platform Operations

Design and deployment of a hardened Kubernetes platform that provides self-service application hosting, automated scaling, and integrated security, enabling development teams to deliver faster without sacrificing governance.

PRACTICE

DevSecOps and Platform Engineering

CLIENT PROFILE

Organization adopting containerized applications that needs a production-grade Kubernetes platform with security, observability, and multi-tenancy support

Challenge

- Development teams running containers in ad-hoc environments without standardization
- No centralized platform for container lifecycle management, monitoring, or security
- Difficulty meeting compliance requirements for containerized workloads

Approach

- Deploy hardened Kubernetes clusters with STIG-compliant configurations
- Implement namespace-based multi-tenancy with RBAC and network policies
- Integrate container registry scanning, runtime security, and admission controllers
- Establish observability with centralized logging, metrics, and distributed tracing

Typical Outcomes

- Standardized, self-service platform for containerized application deployment
- Reduced operational overhead through automated scaling and self-healing
- Compliant container platform with policy enforcement and audit logging

Procurement Paths

- NASA SEWP V and SEWP VI for Kubernetes platform and infrastructure
- DoD ESI for covered container management platforms
- GSA MAS for platform engineering services

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

Partner Technology Examples

- Red Hat (OpenShift)
- Rancher Government Solutions
- Spectro Cloud
- NVIDIA

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.