

# Git+Shift transforms CI/CD into a business accelerator, powered by Red Hat



## Is your approach to DevSecOps helping or hindering your agility?

As organisations adopt DevSecOps across more teams, they face rising complexity, fragmented toolchains, and mounting compliance demands. Manual pipeline creation and version conflicts slow time-to-market and introduce technical debt, especially in regulated sectors where traceability and security are critical.

### Technology Used

- Red Hat OpenShift
- Red Hat OpenShift Virtualisation
- Red Hat OpenStack Platform
- Red Hat Ansible Automation Platform

### Key benefits

- **Faster** time-to-market with automated CI/CD pipelines
- **Lower** operational costs through centralised management and auto-scaling
- **Improved** developer productivity via template-driven workflows
- **Stronger** compliance with integrated security and full lifecycle visibility
- **Flexible** deployment across on-premises and hybrid environments

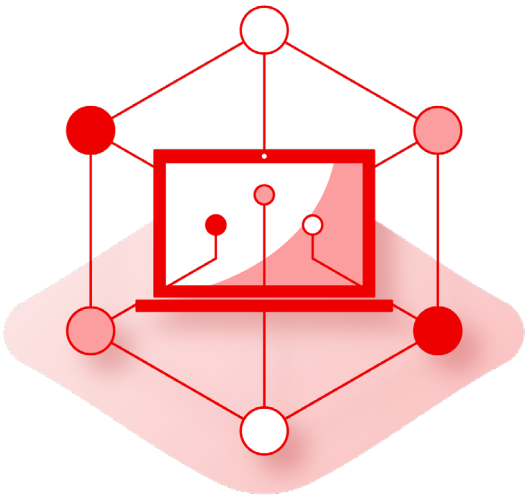
## PentaLink and Red Hat deliver a smarter way to manage DevSecOps

This joint solution combines GitLab with Red Hat OpenShift to deliver a validated, full-stack CI/CD pipeline platform. Git+Shift simplifies deployment, reduces operational overhead and enables consistent performance across environments.

- **Automated pipelines:** Trigger deployments from GitLab CI/CD directly to OpenShift clusters with integrated security checks and full lifecycle visibility.
- **Agile acceleration:** Support rollback and blue/green deployment strategies to minimise downtime and shorten development cycles.
- **Operational efficiency:** Reduce manual effort with OpenShift's auto-scaling and GitLab's automation. Centralised management lowers total cost of ownership.
- **Secure and compliant:** Deploy on-premises or across hybrid environments to meet data sovereignty and regulatory requirements. Git+Shift ensures traceability and security across the entire software delivery lifecycle.
- **Simplified operations:** Manage CI/CD pipelines through a unified platform. Developers can focus on coding while Git+Shift handles deployment, monitoring, and security, eliminating the need to build complex GitLab pipelines from scratch.
- **Flexible and scalable:** Deploy where your data lives, from core to edge, with linear scale-out. Git+Shift's template-driven architecture enables rapid onboarding and consistent performance across teams.

## Traditional DevSecOps approach versus Git+Shift

Traditional DevSecOps approach	Git+Shift
Manual pipeline creation and updates	Template-driven automation
Fragmented toolchains and version conflicts	Unified platform with seamless GitLab and OpenShift integration
High operational overheads	Automated scaling and centralised management
Compliance and traceability gaps	Integrated security checks and full lifecycle history



### Key features of the solution

- **Template-driven automation:** Git+Shift leverages PentaLink’s proprietary CI/CD pipeline template database, refined over years of enterprise experience.
- **Future-ready architecture:** Roadmap includes LLM-powered automation via Retrieval-Augmented Generation (RAG) for intelligent pipeline creation.
- **Validated integration:** GitLab and OpenShift work together seamlessly, ensuring smooth operation and trusted support.
- **Performance and efficiency:** Achieve rapid deployments with minimal manual effort, ideal for agile development environments.
- **Flexible deployment:** Supports on-premises and multi-cloud environments, enabling data sovereignty and regulatory compliance.

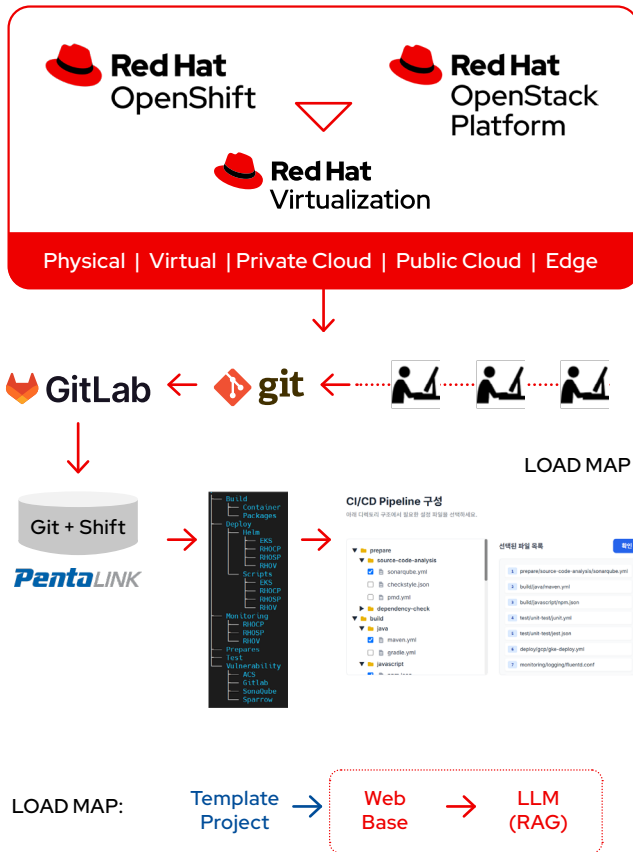


Figure 1: Git+Shift DevSecOps platform powered by Red Hat OpenShift

This diagram shows how Git+Shift integrates GitLab with Red Hat OpenShift to deliver a complete CI/CD pipeline platform.

Git+Shift provides prebuilt pipeline templates, enabling automated deployments, integrated security, and centralised management. The solution is validated by Red Hat and optimised for scalable, secure DevSecOps.



## Getting started is simple

Git+Shift is designed for rapid deployment using prebuilt CI/CD pipeline templates and a validated integration with Red Hat OpenShift. Organisations can quickly adopt the platform without building complex GitLab pipelines from scratch.

Deployment steps include template selection and configuration; platform integration; and validation and rollout.

## Success Story

A customer used Git+Shift to build an intuitive “CI/CD Pipeline Knowledge” platform for a next-generation project requiring over 200 complex integrations. Developers were able to design and deploy sophisticated pipelines in just hours, accelerating delivery and reducing operational complexity.

### About Red Hat

Red Hat is the world’s leading provider of enterprise open source software solutions, using a community-powered approach to deliver reliable and high-performing Linux, hybrid cloud, container, and Kubernetes technologies. Red Hat helps customers develop cloud-native applications, integrate existing and new IT applications, and automate and manage complex environments. A trusted adviser to the Fortune 500, Red Hat provides award-winning support, training, and consulting services that bring the benefits of open innovation to any industry. Red Hat is a connective hub in a global network of enterprises, partners, and communities, helping organisations grow, transform, and prepare for the digital future.

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**North America**  
1-888-REDHAT1  
www.redhat.com

**Europe, Middle East, and Africa**  
00800 7334 2835  
europe@redhat.com

**Asia Pacific**  
+65 6490 4200  
apac@redhat.com

**Latin America**  
+54 11 4329 7300  
info-latam@redhat.com