

# ControlPlane Enterprise for Flux CD

# About ControlPlane

## Overview

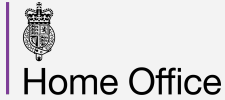
### Consulting

Security architecture  
Security engineering  
Assured open source  
Offensive / defensive security  
Product security

- Cloud native **transformations**
- Kubernetes, container, and cloud **security**
- **Assured open source**
- **DevSecOps** infrastructure and application delivery
- Secure SDLC and continuous delivery **pipelines**
- Cloud Native **SOC integration**
- **Pentest, Red, Blue, Purple** Team
- **Product** and **platform security audit** and review
- Hardened **software supply chain** build and automation

# About ControlPlane

## Key Customers



# About ControlPlane

What are we trying to solve

**Open source software:** current **challenges** faced by our **regulated customers**.

- **De-risk** overall **adoption** and **ingestion**
- **Vulnerability management**, ensure vulnerabilities are patched in a timely manner
- Manage **audit** and **traceability** of open source software and its dependencies
- Lack of **code** & **build assurance** and **trustworthiness**
- Lack of **reliable** and **enterprise-grade support**
  - **Tactical**
  - **Strategic**



**ControlPlane**

**Assured open source software**

# ControlPlane Enterprise for Flux CD

## Overview

Ensuring the **longevity** and **sustainability** of the CNCF-graduated Flux CD project

ControlPlane offers a **hardened, enterprise-grade distribution** and **support services**

Offering **tangible value** and **benefits** to customers above the open source Flux CD project, we provide comprehensive **security assurance** through rigorous bitstream **remediation**, and **compliance with required regulatory standards**

Inclusive with the product, we deliver **enterprise-grade technical support** and **services**, ensuring reliable **notifications** and **patches**, and **assistance** when needed by our customers



# ControlPlane Enterprise for Flux CD

## Product

- **Hardened distroless** container images
- **OCI-compliant** secure image repositories
- **0-CVE**: continuous scanning and **CVE patching** for Flux CD container **base images**
- **SLAs** for handling of **vulnerabilities** affecting Flux CD functionality
- **FIPS-compliant** Flux CD builds based on **FIPS 140-2 validated** BoringSSL
- **SBOMs** and **VEX** documents in-sync with upstream Flux CD releases
- **Build assurance**: full transparency in the build process to enable independent attestation of build and artifacts (SLSA Build Level 3)
- **Integrity assurance**: Cryptographically verification of Flux CD container images and SBOMs.

# ControlPlane Enterprise for Flux CD

## Services

### > ENTERPRISE SUPPORT

- **Around-the-Clock Support:** dedicated 24/7/365 on-call assistance
- **Vulnerability Management:** disclosures and remediation guidance for Flux-related vulnerabilities
- **Continuous Updates:** regular communication on Flux updates, patches, RFCs, and roadmap changes

### > TECHNICAL ACCOUNT ARCHITECT

- **Core maintainers**, for up to 5 days per month (bursts allowed)
- **Expert Consultation:** on-demand GitOps architectural reviews
- **Large strategic collaboration:**
  - To understand unique infrastructure and application delivery needs
  - Optimization and enhancements
  - Security and operational best practices



# ControlPlane Enterprise for Flux CD

Customer journey

## Zero-downtime Transition

- Smooth transition **from CNCF Flux CD** to **ControlPlane Enterprise for Flux CD** without affecting workflows

## Full Compatibility

- Hardened distroless container images **fully compatible with upstream Flux CD bootstrap**, requiring only a simple **patch** to deploy manifests

# ControlPlane Enterprise for Flux CD

0-CVE

Robust **CVE remediation** through continuous **vulnerability scanning**, and **rapid patching**.

We **categorise CVEs** into:

- Flux CD **source code**
- Flux CD **dependency tree**
- Flux CD **runtime containers**

**Enterprise customers** can rely on:

- **24/7/365** support under **SLAs**
- Defined **SLAs** for response **workarounds** and/or **patch releases**
- Continuous protection
- Zero downtime patching

# ControlPlane Enterprise for Flux CD

0-CVE deep dive

## Flux CD source code CVEs

- **Handling:** Fixes provided to enterprise clients **before public disclosure**; patched releases align with upstream
- **Benefit:** Protects enterprise clients before vulnerabilities become widely known

## Flux CD dependency tree CVEs

- **Handling:** Triage to assess impact on Flux and dependencies; develop fixes as needed
- **Benefit:** Tailored support mitigates dependency-related vulnerabilities with minimal production impact

## Flux CD runtime containers CVEs

- **Handling:** Native Go binary design reduces attack surface; rapid shipment of patched container images
- **Benefit:** Ensures ongoing security and stability of Flux deployments

# ControlPlane Enterprise for Flux CD

## CVE responses

Response levels are based on the CVSS (Common Vulnerability Scoring System) scores, ensuring a structured and efficient approach to vulnerability management:

### **Critical (CVSS 9.0-10.0)**

ControlPlane Action: Continuous effort to produce workarounds and permanent fixes.

### **High (CVSS 7.0-8.9)**

ControlPlane Action: Use reasonable efforts during support hours to produce a workaround, aiming to adjust priority to Medium severity.

### **Medium (CVSS 4.0-6.9)**

ControlPlane Action: Provide a workaround during support hours and develop a permanent resolution

### **Low (CVSS 0.1-3.9)**

ControlPlane Action: Review issues to determine if product enhancement is needed and respond to information requests

# ControlPlane Enterprise for Flux CD

## Options

Portal access	Features	Product	Support	Architect
Partial	Hardened distroless container images	x	x	x
	Enterprise OCI-compliant secure image repositories	x	x	x
	0-CVE continuous scanning and CVE patching for Flux CD container base images	x	x	x
	SLAs for remediation of critical vulnerabilities affecting Flux CD functionality	x	x	x
	FIPS-compliant Flux CD builds based on FIPS 140-2 validated BoringSSL	x	x	x
	SBOMs in-sync with upstream Flux CD releases	x	x	x
	Build assurance with CI/CD attestation	x	x	x
	Integrity assurance and signed artefacts	x	x	x
Full	Enterprise Support (bug reporting, outages)		x	x
	Request Software Defect and Bug Fixes		x	x
	Request Feature Enhancements and Codebase Improvements		x	x
	Assist with Continuous Delivery Improvements for Customer Environments		x	x
	Best Practices Assistance of CD Pipelines for In-production Flux Deployments		x	x
Extended	Technical Account Architect (up to 5 days per month)			x

Options are available upon request for Support and/or Architect only

# ControlPlane Enterprise for Flux CD

## Pricing

Flexible packages based on number of **Production** clusters or number of **Production** nodes across clusters (whichever is hit first) and capped pricing to accommodate various organisational needs and sizes.

**Dev & Staging** environments are covered at no extra cost.

Cluster bundles	Node bundles	Product Only	Inc. Support	Plus Architect
1 cluster	10 nodes	\$12,000 USD	\$15,000 USD	\$115,000 USD
10 clusters	100 nodes	\$60,000 USD	\$75,000 USD	\$175,000 USD
25 clusters	250 nodes	\$100,000 USD	\$125,000 USD	\$225,000 USD
100 clusters	1000 nodes	\$350,000 USD	\$500,000 USD	\$600,000 USD

Pricing is available upon request for Support and/or Architect options only





Q&A

[solutions@control-plane.io](mailto:solutions@control-plane.io)

# ControlPlane Enterprise for Flux CD

At a glance

**Enterprise-Grade Security:** ControlPlane emphasises security by providing hardened container images and synchronised SBOMs, ensuring minimal vulnerabilities in Flux CD deployments.

**Proactive Vulnerability Management:** The continuous scanning and prompt CVE patching demonstrate a proactive approach to identifying and mitigating security risks.

**Compliance and Compatibility:** ControlPlane ensures FIPS compliance and maintains extended compatibility with multiple Kubernetes releases, catering to enterprise needs and regulatory standards.

**Structured CVE Handling:** By categorising CVEs into source code, dependency, and runtime container vulnerabilities, ControlPlane can address vulnerabilities efficiently and effectively.

**Dedicated Support and SLAs:** With 24/7 support, defined SLAs, and optional Technical Account Architects, ControlPlane commits to high service levels and quick remediation, enhancing client trust and reliability.

**Commitment to Open Source:** ControlPlane's contributions to the CNCF Flux project and the wider cloud-native ecosystem highlight a strong commitment to open-source sustainability and community support.