ControlPlane Enterprise for Flux CD
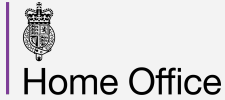
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About ControlPlane
Overview

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

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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**

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ControlPlane

Assured open source software

ControlPlane Enterprise for Flux CD

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

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Product

- **Hardened distroless** container images

- **Enterprise** 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** in-sync with upstream Flux CD releases

- **Build assurance**: full transparency in the build process to enable independent attestation of build and artifacts

- **Integrity assurance**: Cryptographically verification of Flux CD container images and SBOMs.

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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

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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

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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

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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

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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

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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 and pricing to accommodate various organisational needs and sizes.
Annual subscription packages based on the number of clusters or nodes.

No. Clusters	No. Nodes	Product	Support	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

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Q&A

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