



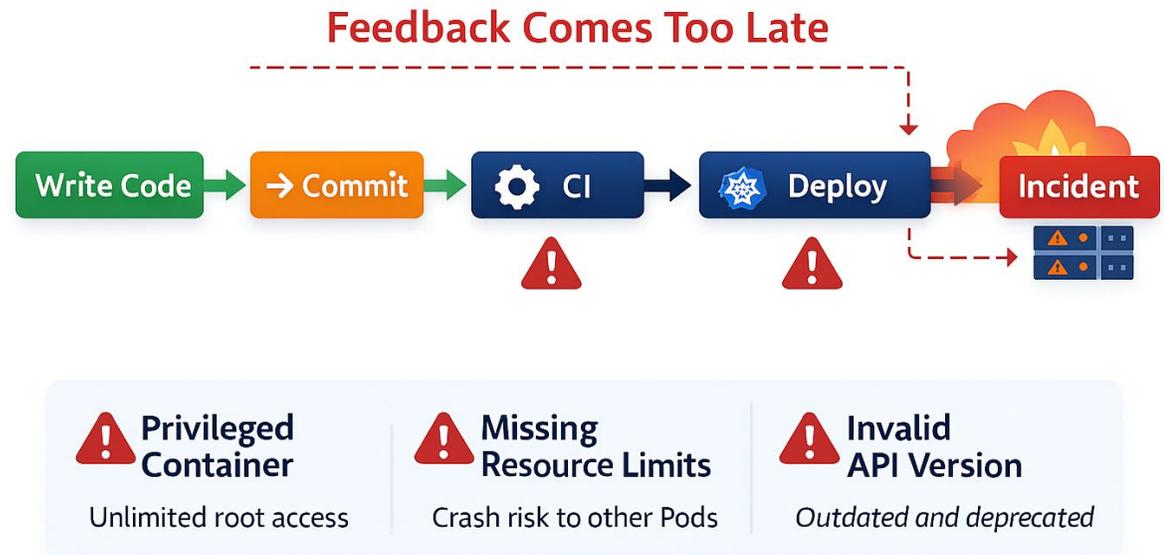
**Sajal Nigam**

Senior Application Engineer

# **GuardOn : Shifting Kubernetes Compliance Left with Developers-First Guardrails**

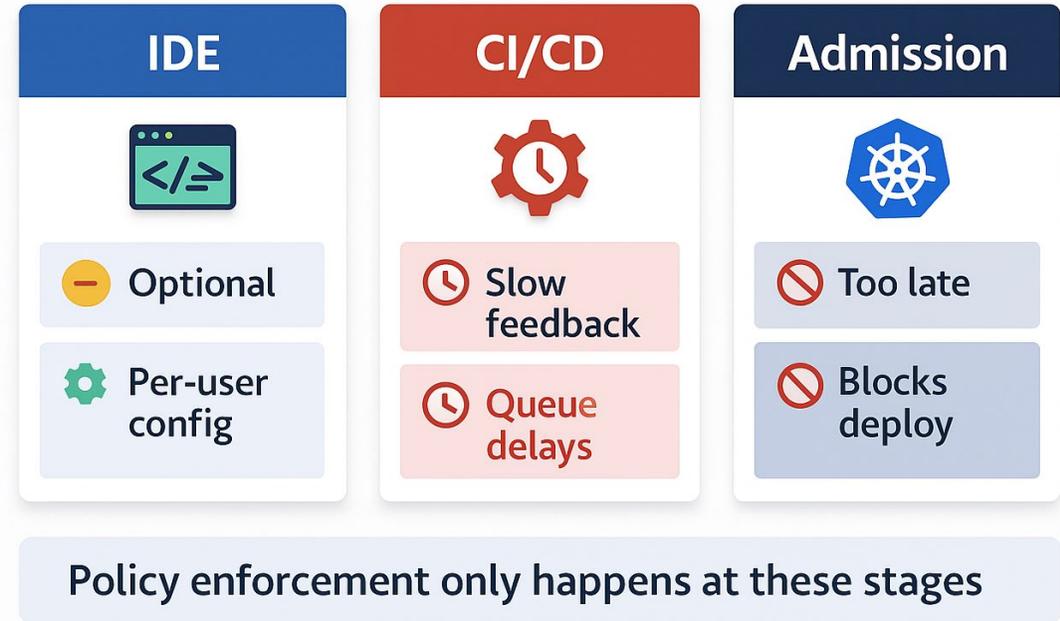
- Declarative YAML complexity
- Security-sensitive defaults
- Misconfigurations > CVEs

## The Problem: Misconfigurations Are Still Escaping



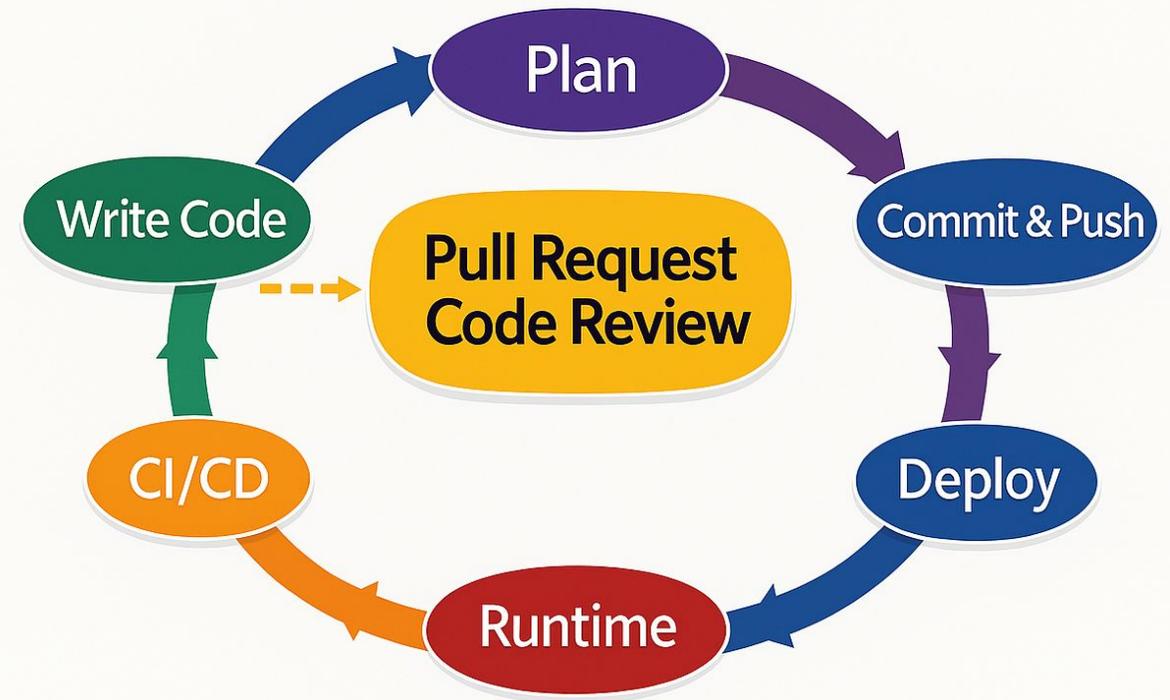
- 
- IDE linters (edit-time)
  - CLI & pre-commit (commit-time)
  - CI/CD (pipeline-time)
  - Admission controllers (deploy-time)

## Why Existing Tools Are Not Enough



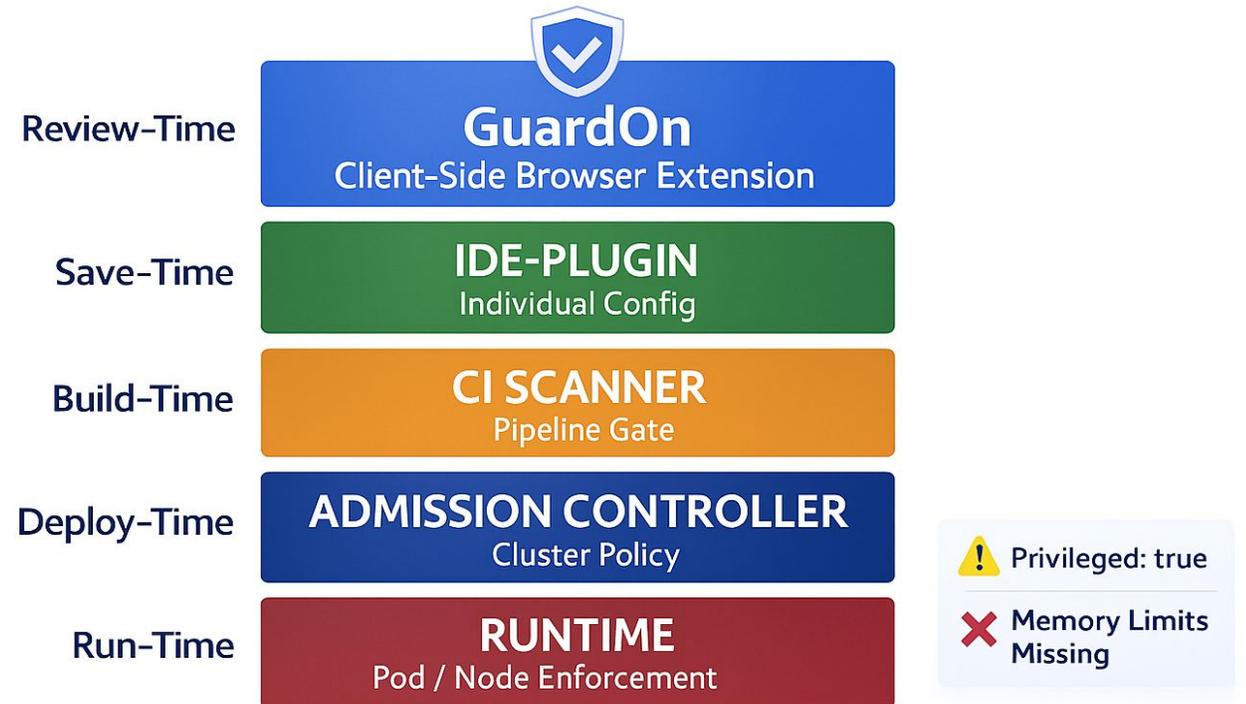
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- Pull Request review
  - Mandatory, collaborative, audited

## The Missing Enforcement Point: PR Review



- Edit → Commit → Review  
→ Pipeline → Admission
- GuardOn = Review-Time

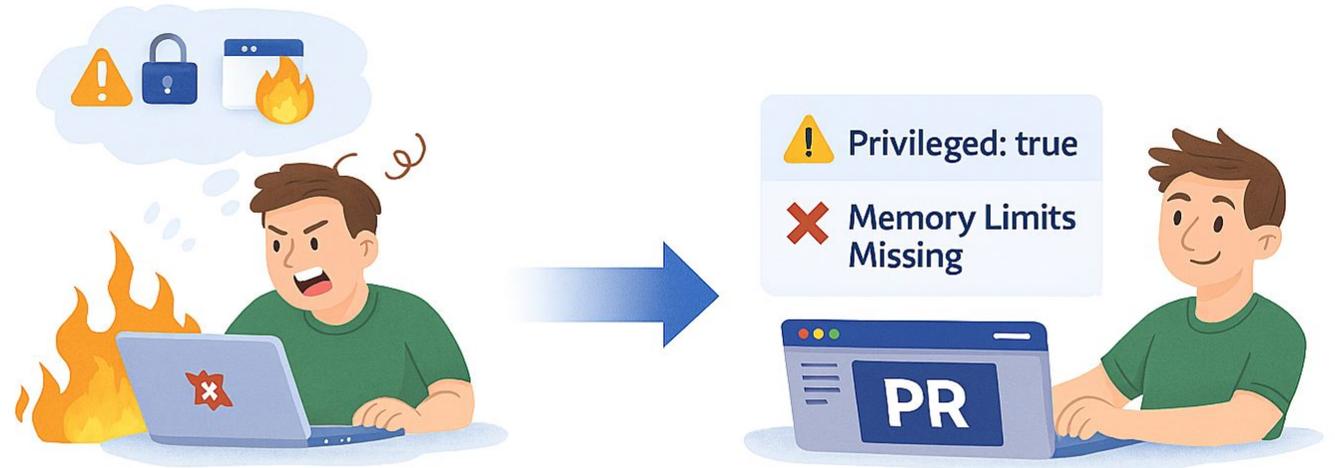
## Policy Enforcement Across SDLC



Defense in Depth, GuardOn adds an earlier layer

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- Zero infrastructure
  - Zero drift
  - Reviewer-visible

## Why Review-Time Enforcement Matters?



### Before GuardOn

Misconfigurations detected late, during PR merge

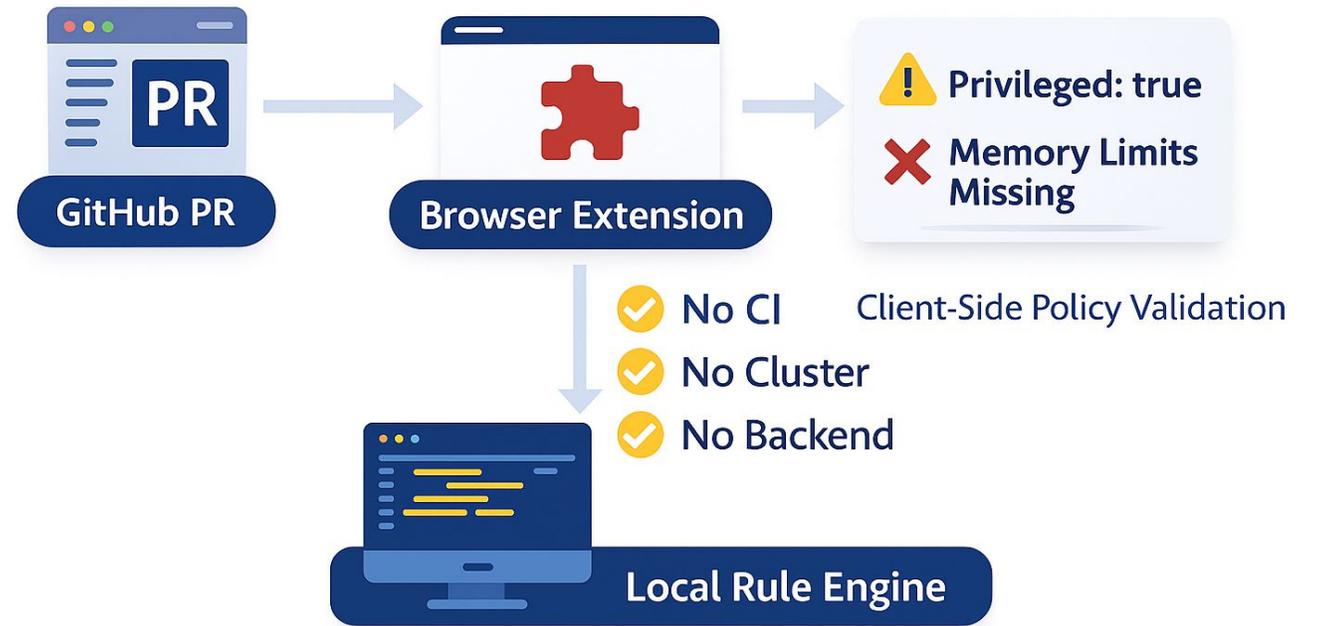
### With GuardOn

Misconfigurations validated early, during review



- Policy-as-Code inside PRs
- Browser-resident
- No cluster or CI required

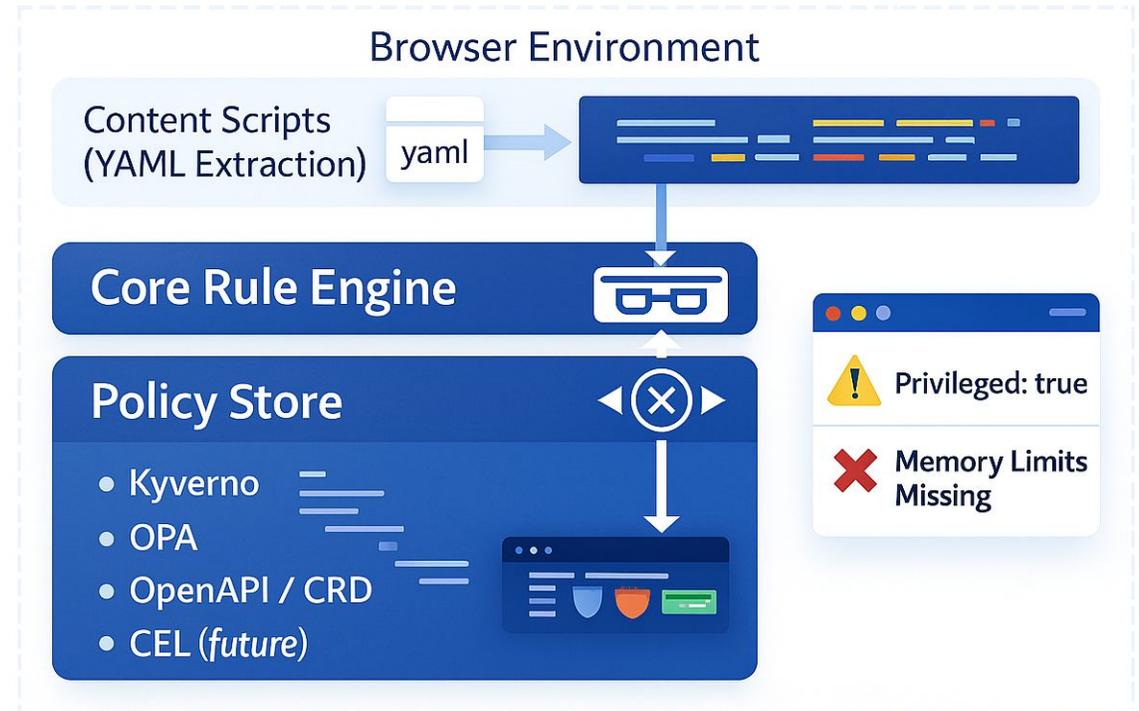
## GuardOn: Core Idea





## Client-Side Architecture

- Content Script
- Background Service Worker
- Core Rule Engine

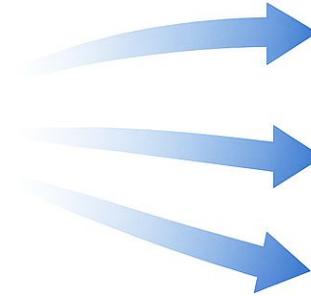


- 
- Native rules
  - Kyverno validation import
  - OPA/Rego (subset)

## Easy Policy Reuse



Existing Policies



kyverno



No Reinventing the Wheel

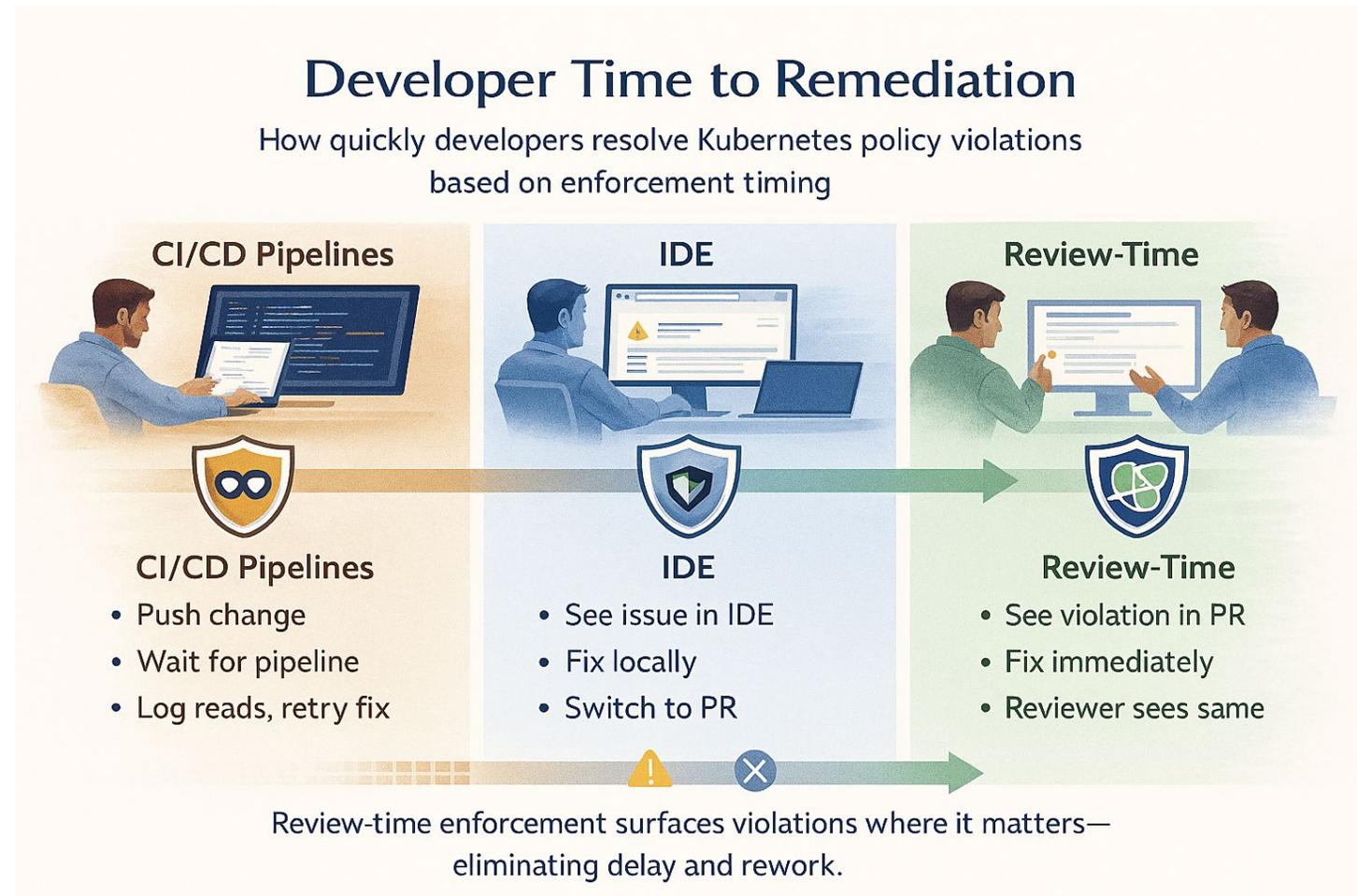
# Deterministic Rule Engine

No ambiguous rules: the same result, every time

- Schema-aware
- Stateless predicates
- Parallel execution



- 
- Seconds instead of minutes
  - Reduced cognitive load



# Limitations

GuardOn has current limitations that help prioritize future improvements.



## Org-Wide Coverage

Only applied in  
GitHub, GitLab



## Policy Granularity

Per branch exceptions  
not yet available



## Custom Resources

Scenarios requiring  
domain-specific logic



# Guardon — Developer-First Kubernetes Governance

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## Overview

Guardon validates Kubernetes YAML files in GitHub/GitLab against configurable Guardon checks.

- Per-user rule upload does not scale

## Enterprise Concerns



### Risk Exposure

Misconfigurations increase the attack surface



### Supply Chain Security

Weak code can leak dependencies



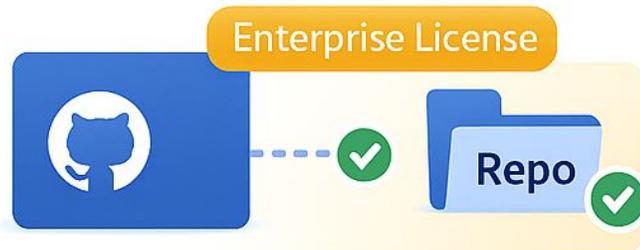
### Regulatory Compliance

Strict rules dictate secure configurations

# Enterprise vs Community Version



- ✓ Centrally Defined Policies
- ✓ Org-Wide Enforcement
- ✓ Audit & Traceability



- ✓ User-Defined Policies
- ✓ Single-Repo Usage
- ✓ Basic Issue Tracking



Two Flavors of GuardOn Tailored to Your Needs

# Call to Action

- Try GuardOn

 **Guardon — Developer-First Kubernetes Governance**

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