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Cloud Native Feature Flag Management

Let's build the OpenTelemetry of Feature Flagging

- Define an open standard, vendor-neutral specification

- Develop a unified API and SDK

- Provide a developer-first, cloud-native reference implementation

- Support extensibility for commercial offerings (open core)

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Current ecosystem

- **Many SDKs** solving essentially the same problem

- SDKs are generally open source but have a **limited ecosystem**

- **Vendor lock-in** at the code-level

- No solution fully utilizes **cloud native capabilities**

- **Missing integration** with observability (e.g. OpenTelemetry)
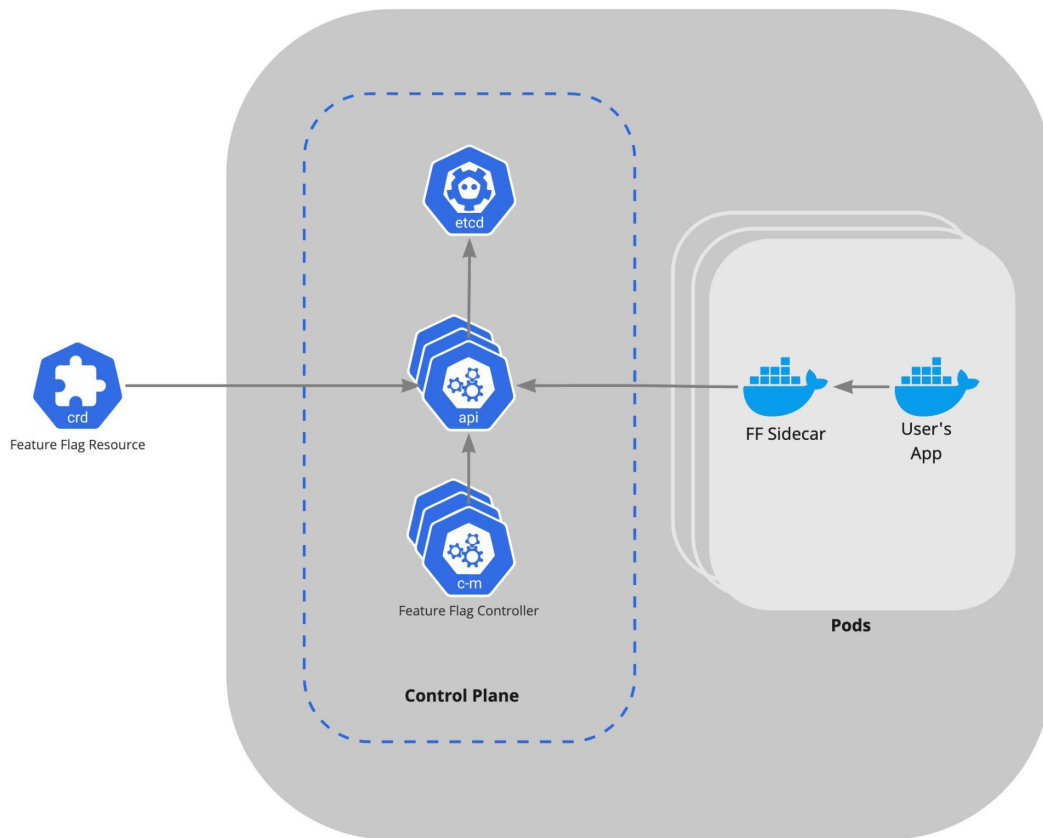
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Proposed solution

- Publish an **open standard** that allows new and existing feature flag solutions to become spec-compliant

- Develop spec-compliant, **vendor agnostic SDKs**

- **Integrate with cloud native technologies**, such as OpenTelemetery, allowing for enhanced distributed traces, metrics, and request scoped context

- Provide a **Kubernetes focused** reference implementation

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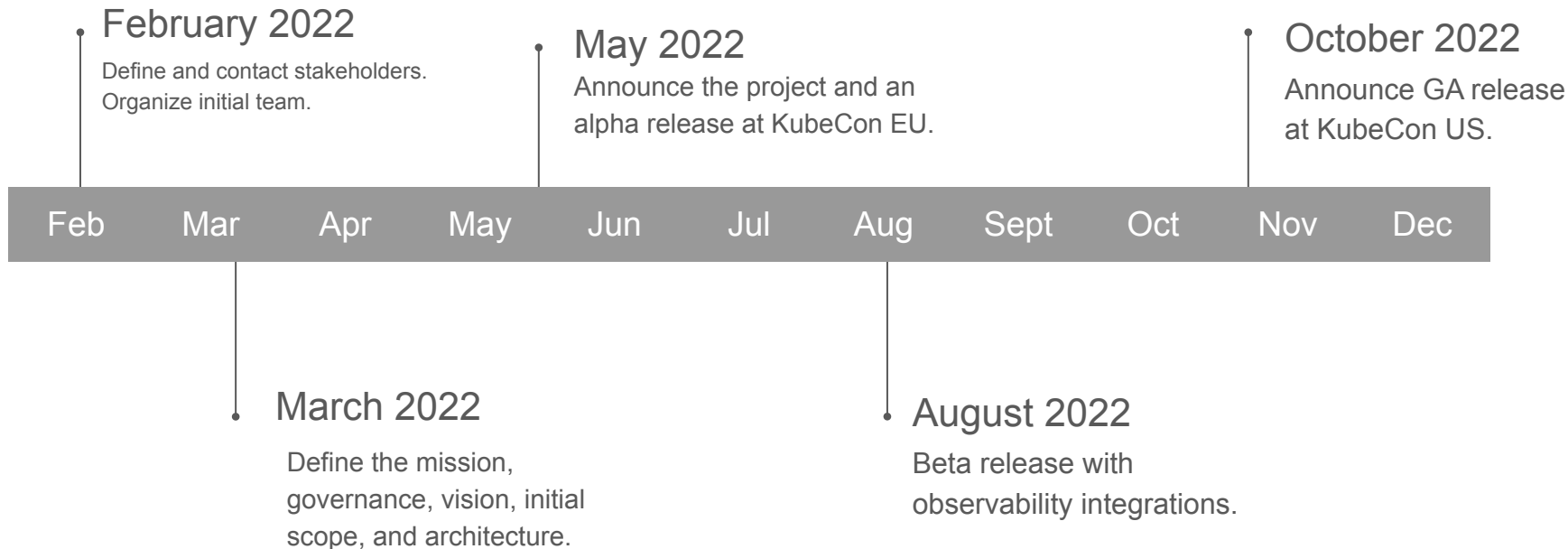# Kubernetes-native architecture

etcd

api

c-m
Feature Flag Controller

crd
Feature Flag Resource

FF Sidecar

User's App

Control Plane

Pods

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github.com/open-feature/spec#architecture

Specification

- Ongoing research

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Milestones

February 2022
Define and contact stakeholders. Organize initial team.

May 2022
Announce the project and an alpha release at KubeCon EU.

October 2022
Announce GA release at KubeCon US.

Feb	Mar	Apr	May	Jun	Jul	Aug	Sept	Oct	Nov	Dec

March 2022
Define the mission, governance, vision, initial scope, and architecture.

August 2022
Beta release with observability integrations.

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Project Roadmap

What's now?

- Project & Governance bootstrap

- CNCF Sandbox application
  - New sandbox cycle starts on March 06

- Outreach to potential contributors

- Summarizing research results & spec drafts

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What's next?

- Specification draft

- Reference implementation PoC

- Prepare public announcements

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Participate in OpenFeature

- Join our [Slack](#)

- Join us for [project meetings](#)

- Add yourself [Interested Parties](#)

- Share your feedback!

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Links

- Website: open-feature.github.io

- GitHub: github.com/open-feature

- Specification: github.com/open-feature/spec

- Community and Governance: github.com/open-feature/community

- Project roadmap: github.com/orgs/open-feature/projects/1

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QUESTIONS?

open-feature.github.io