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Unifying Developers and Platform Engineers Through OpenChoreo Abstractions

Sameera Jayasoma @ WSO2



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 Hyatt Regency Austin







Open source commitment

All WSO2 products are open source under *Apache 2.0*

OpenChoreo <i>Donated on January 6, 2026.</i>		CNCF	
ThunderID <i>Donation in progress.</i>		OpenWallet Foundation	
Ballerina interpreter <i>Planned.</i>		GO	

WSO2CON





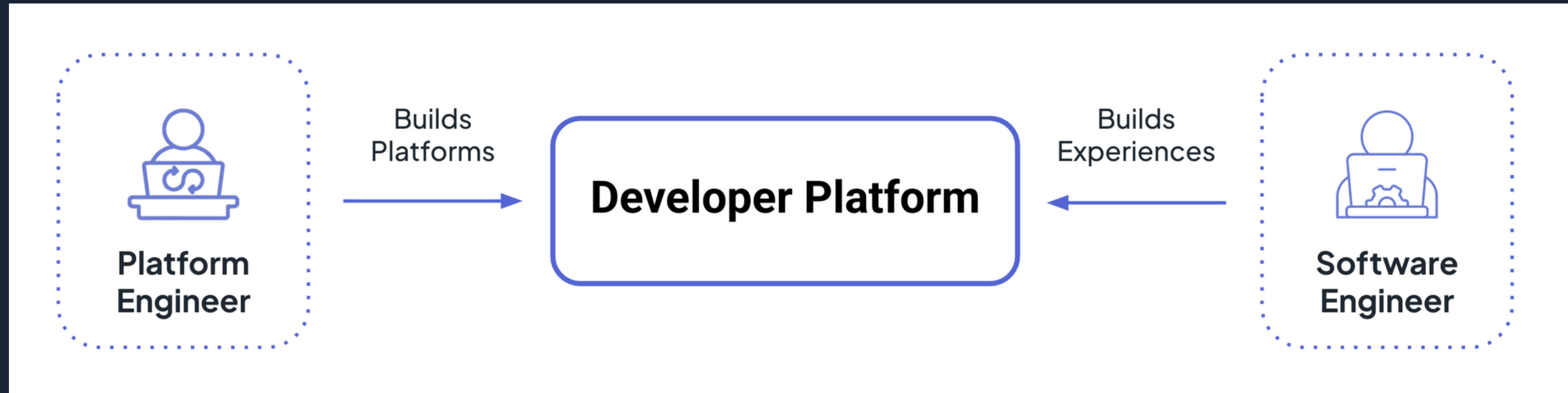
Sameera Jayasoma

VP & Distinguished Engineer @ WSO2

- Maintainer & Lead Architect of OpenChoreo
- One of the primary contributors to the Ballerina language design
- Lead Architect of the Ballerina compiler & platform

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Developer Platform



A Developer Platform is a **self-service framework** of tools and technologies **designed and built** by the **platform team** to help software teams build, deploy, and manage applications independently.



THE ADOPTION CRISIS

64%

of engineers
bypassed the platform

ran kubectl directly instead

\$4.2M

spent on the IDP
18 months of work

and most engineers ignored it

80%

of large orgs will
have a platform team

Gartner, by end of 2026

**We Spent \$4M Building an IDP.
64% of Engineers Ignored It.**

EMMANUELA OPURUM · HACKERNOON



Adoption is Failing. Why?

Evolution of cloud-native technologies

Kubernetes

Helm

Argo CD

Ingress

RBAC

NetworkPolicy

Secrets

Gateway API

Pipelines

Cloud native technologies have made infrastructure more powerful and flexible



Platforms Started Leaking...

Developers are exposed to platform complexity and interact directly with platform components.

Developers shouldn't have to learn the platform to use the platform.

Developer Experience

CLI, YAML, Portal, MCP
Choose your workflow

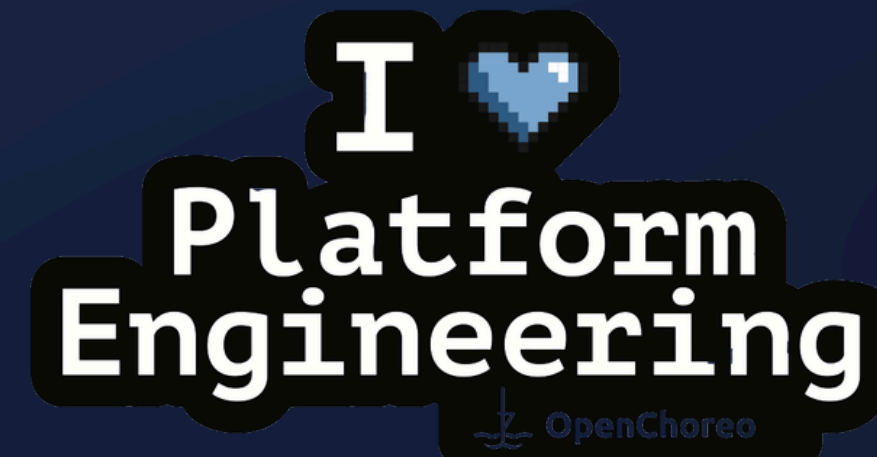
Platform Engine

Kubernetes, CI/CD, observability, security, networking
Managed by platform engineers





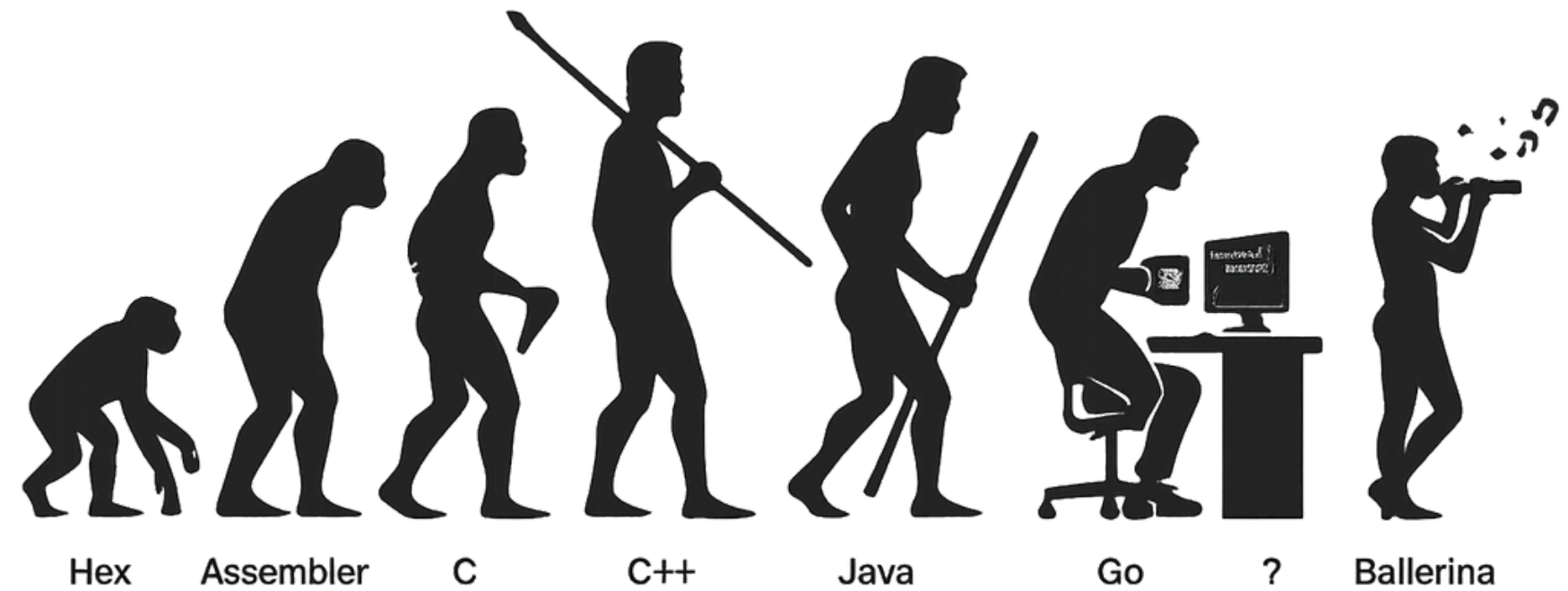
Developers



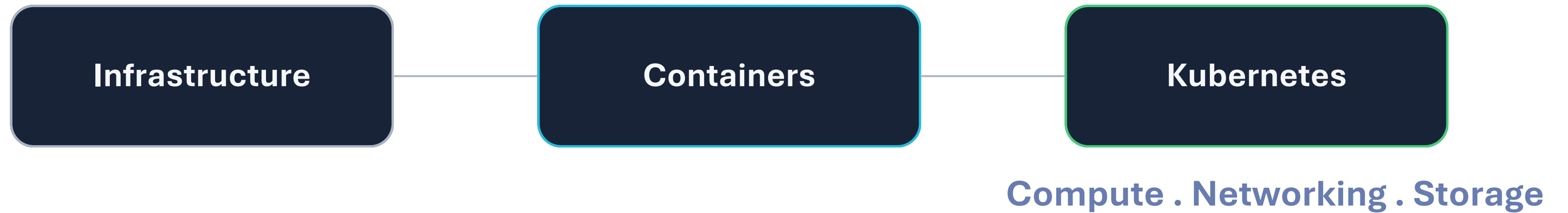
Platform Engineers



Programming Language Abstractions



Kubernetes Solved Infrastructure Abstraction



Successful infrastructure abstraction \neq developer abstraction



Kubernetes is Not the Problem

This is fundamentally an **abstraction** problem.

Developer API
Deploy my service

Infrastructure API
Deployment + Service + Ingress + HPA +
NetworkPolicy



The API Layer Changes Everything

Developer Experience

CLI, YAML, Portal, MCP
Choose your workflow

API

Capabilities offered by the platform

Platform Engine

Kubernetes, CI/CD, observability, security, networking
Managed by platform engineers



More Abstractions
Fewer Tokens



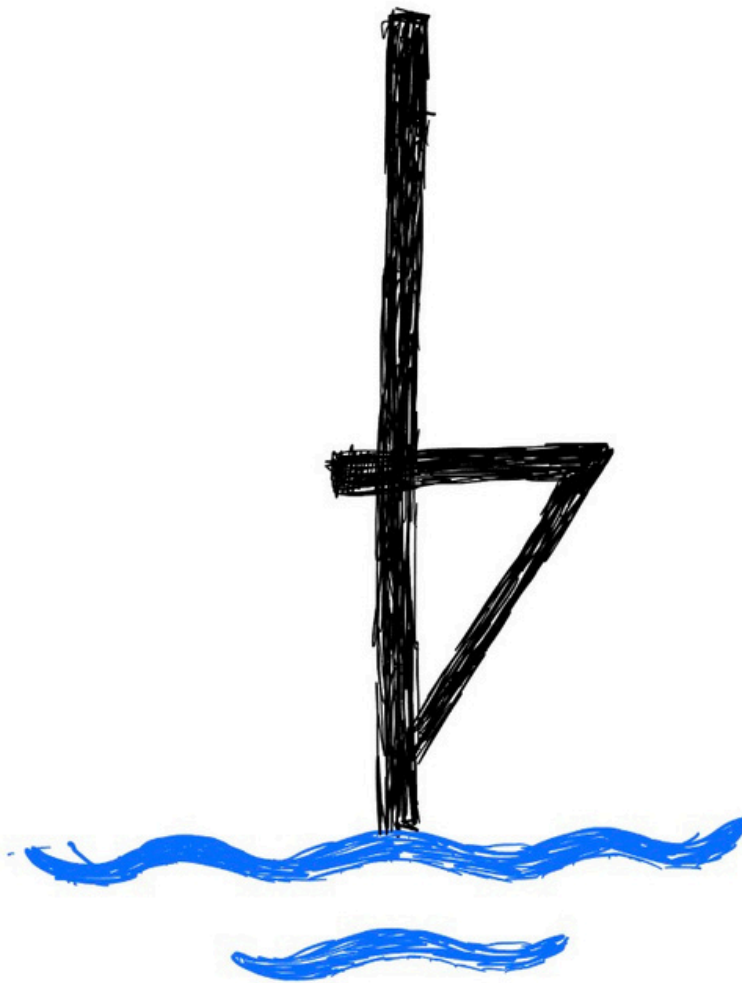


OpenChoreo

**A complete, open-source
developer platform for Kubernetes**

Ready to use from day one, built to integrate with your stack





OpenChoreo



OpenChoreo

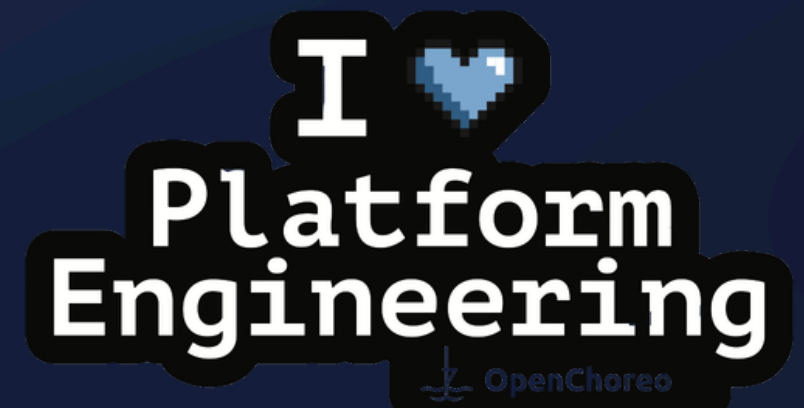




Developers



OpenChoreo



Platform Engineers



Platform Engine

Developer Experience

CLI, YAML, Portal, MCP
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From this complicated landscape...

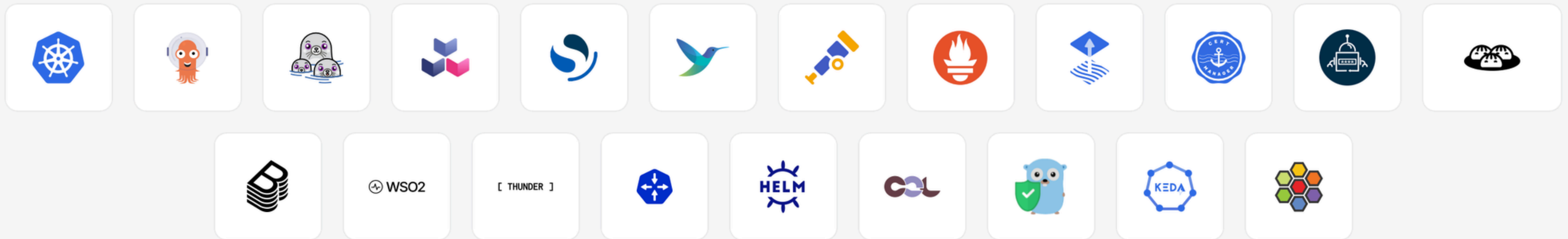
The image displays a vast grid of logos for various cloud-native technologies, organized into several functional categories. Each logo is accompanied by its name and a status indicator (e.g., 'ENOF GRADUATED', 'ENOF INCUBATING').

- Application Definition & Image Build:** Includes logos for Dapr, HELM, ArgoCD, Backstage, Buildpacks.io, KubeVela, KubeVirt, MICROCKS, OPERATOR FRAMEWORK, CHEF, and others.
- Database:** Features logos for TiKV, ViteSS, and various other database solutions.
- Continuous Integration & Delivery:** Lists tools like Argo, Flux, OpenKruise, and others.
- Streaming & Messaging:** Includes CloudEvents, NATS, STRIMZI, and others.
- Scheduling & Orchestration:** Shows logos for Cronos, KEDA, Knative, Kubernetes, FLUID, KARMADA, KubeFlow, VOLCANO, and warmcloud.
- Service Proxy:** Includes Envoy, Contour, and others.
- Remote Procedure Call:** Lists gRPC and others.
- API Gateway:** Includes Emisary Ingress and others.
- Service Mesh:** Features Istio and Linkerd.
- Coordination & Service Discovery:** Includes CoreDNS and etcd.
- Cloud Native Storage:** Lists CubeFS, ROOK, LONGHORN, and others.
- Container Runtime:** Includes cri-o and Lima.
- Cloud Native Network:** Features Cilium and others.
- Security & Compliance:** Includes Falco, in-toto, Kyverno, Open Policy Agent, and others.
- Automation & Configuration:** Lists KubeEdge, Cloud Custodian, OpenYurt, and others.
- Container...:** Includes Dragonfly and Harbor.
- Key Mana...:** Lists spiffe and SPIRE.
- Observability:** Features fluentd, OpenTelemetry, Prometheus, cortex, and Thanos.
- Continuous Optimization:** Includes OpenCost and others.
- Chaos En...:** Lists Chaos Mesh and Litmus.
- Feature Flagg...:** Includes Open Feature and others.



...to this.

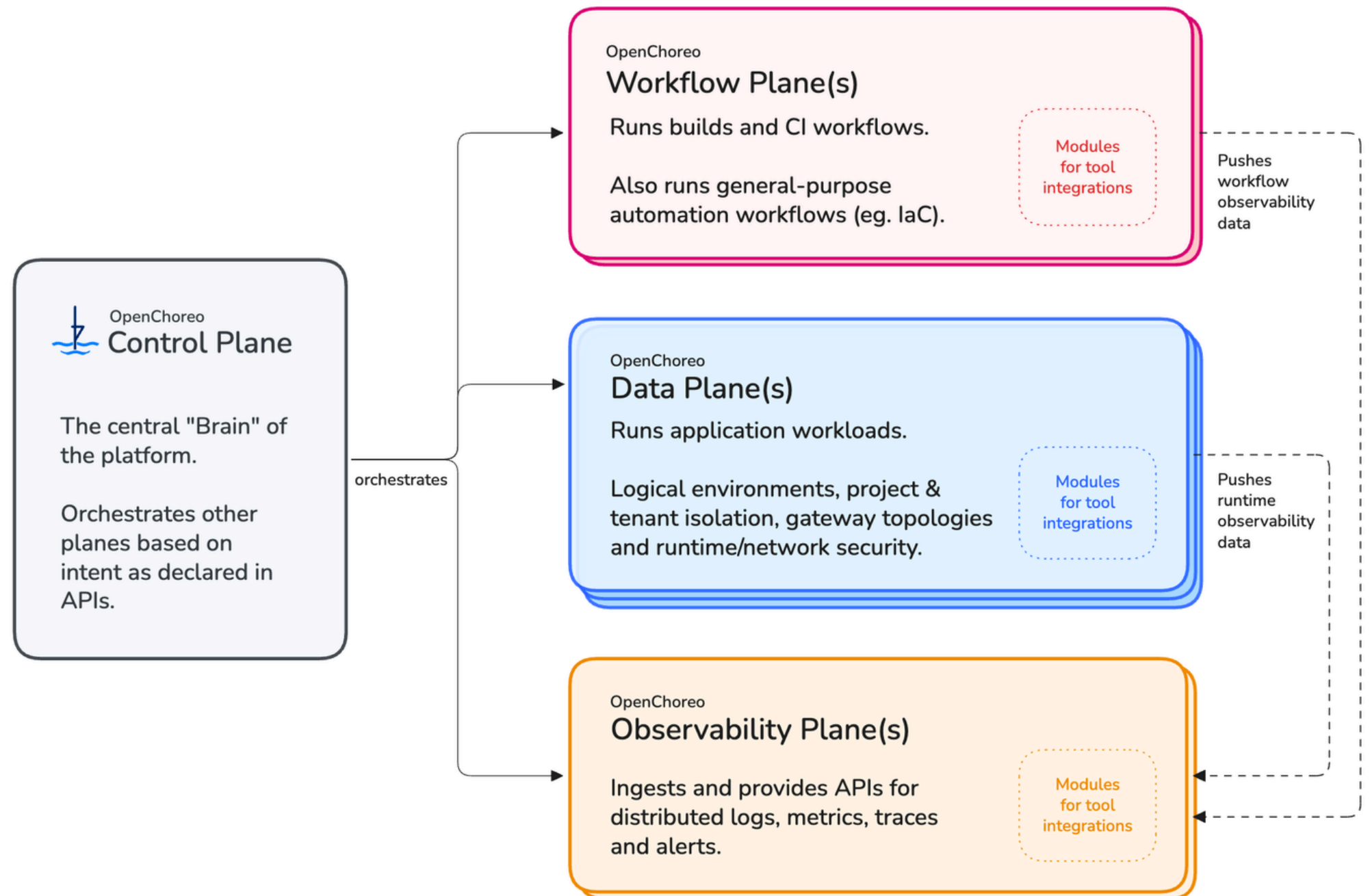
OpenChoreo orchestrates Kubernetes and other complementary CNCF and open-source projects to provide a production-grade IDP.



You can integrate other tools and vendors for identity, CI, observability, gateways and other platform services with OpenChoreo's modular architecture. The ones listed above are the default options that ship with OpenChoreo.



A system, not a stack.



Batteries included,
batteries swappable.

OpenChoreo Ecosystem

Discover modules, integrations, agents, skills, component types, and workflows to extend OpenChoreo

Search the Ecosystem (e.g., AI, gateway, observability)

Categories

- AI 8
- AI Gateway 1
- API Gateway 6
- CI 8
- Database 2
- Developer Tools 1
- FinOps 1
- GitOps 6
- Integration 1
- Networking 1
- Observability 9

- All
- Modules
- Integrations
- Agents
- Skills
- Component Types
- Workflows

Showing 48 items

Sort by: Name (A → Z)



Agent Gateway

Module

AI-native gateway for OpenChoreo providing unified LLM routing across multiple providers and MCP federation for AI agent...

#ai-gateway #llm #mcp #agent-gateway

View



Agent Sandbox

Component Type

Kernel-level sandbox isolation for AI agent workloads using kubernetes-sigs/agent-sandbox, supporting gVisor and Kata...

#ai-agents #sandbox #security #kata

View



Argo Workflows

Module

Kubernetes-native workflow engine for orchestrating parallel jobs, CI/CD pipelines, and complex DAG-based workflows.

#workflows #ci-cd #argo #pipelines

View



AWS RDS PostgreSQL

Workflow

Self-service workflow to provision and deprovision AWS RDS PostgreSQL instances using Terraform, enabling developer self-service...

#workflow #aws #database #postgresql

View



Azure SQL Database

Workflow

Self-service workflow to provision and deprovision Azure SQL Databases using Terraform, enabling developer self-service...

#workflow #azure #database #sql

View



Ballerina Buildpack Builder

Workflow

Component build workflow for building applications written in Ballerina.

#workflow #build #ballerina #buildpacks

View



API & Abstractions

Developer Experience

CLI, YAML, Portal, MCP
Choose your workflow

API

Capabilities offered by the platform

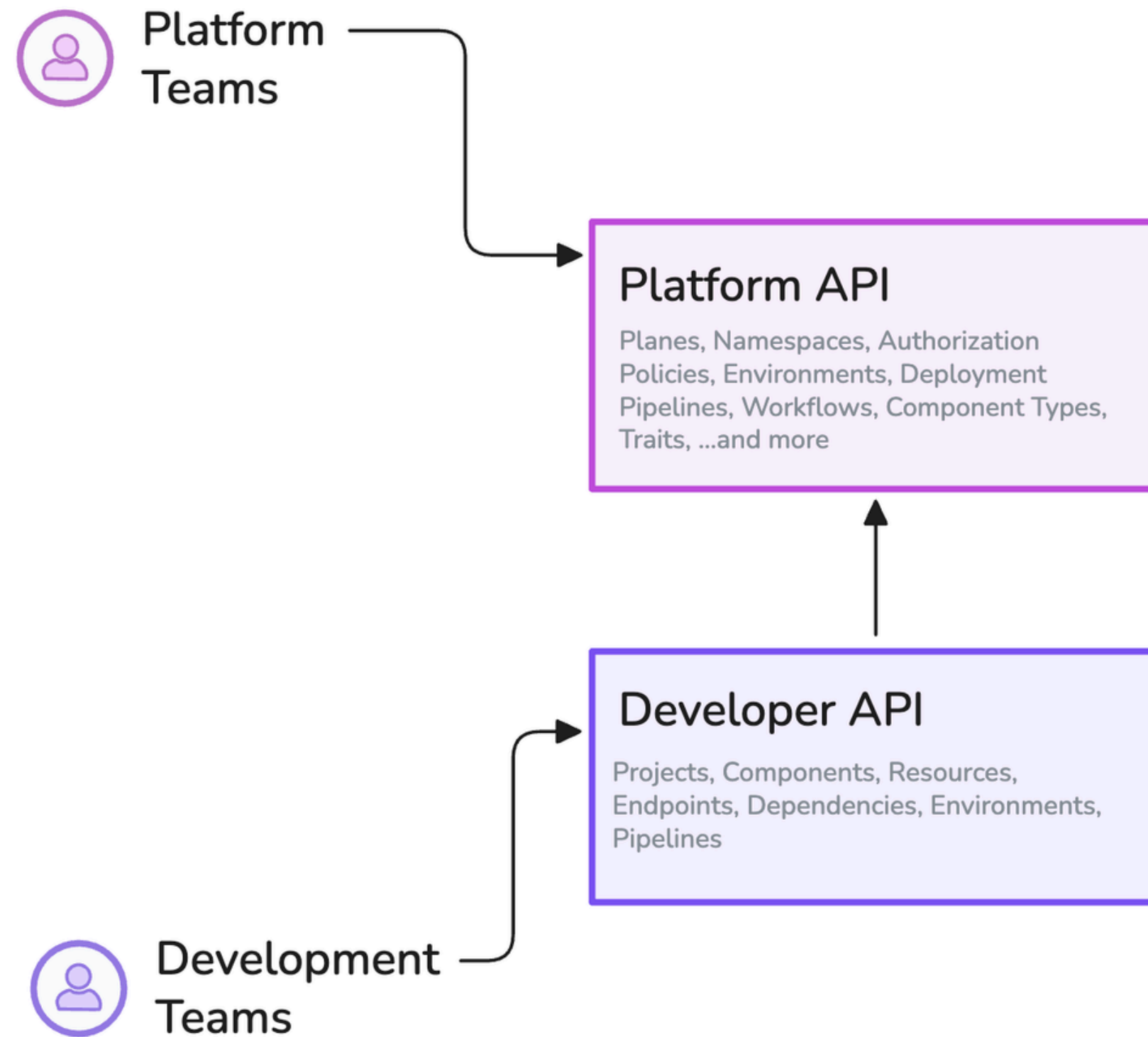
Platform Engine

Kubernetes, CI/CD, observability, security, networking
Managed by platform engineers

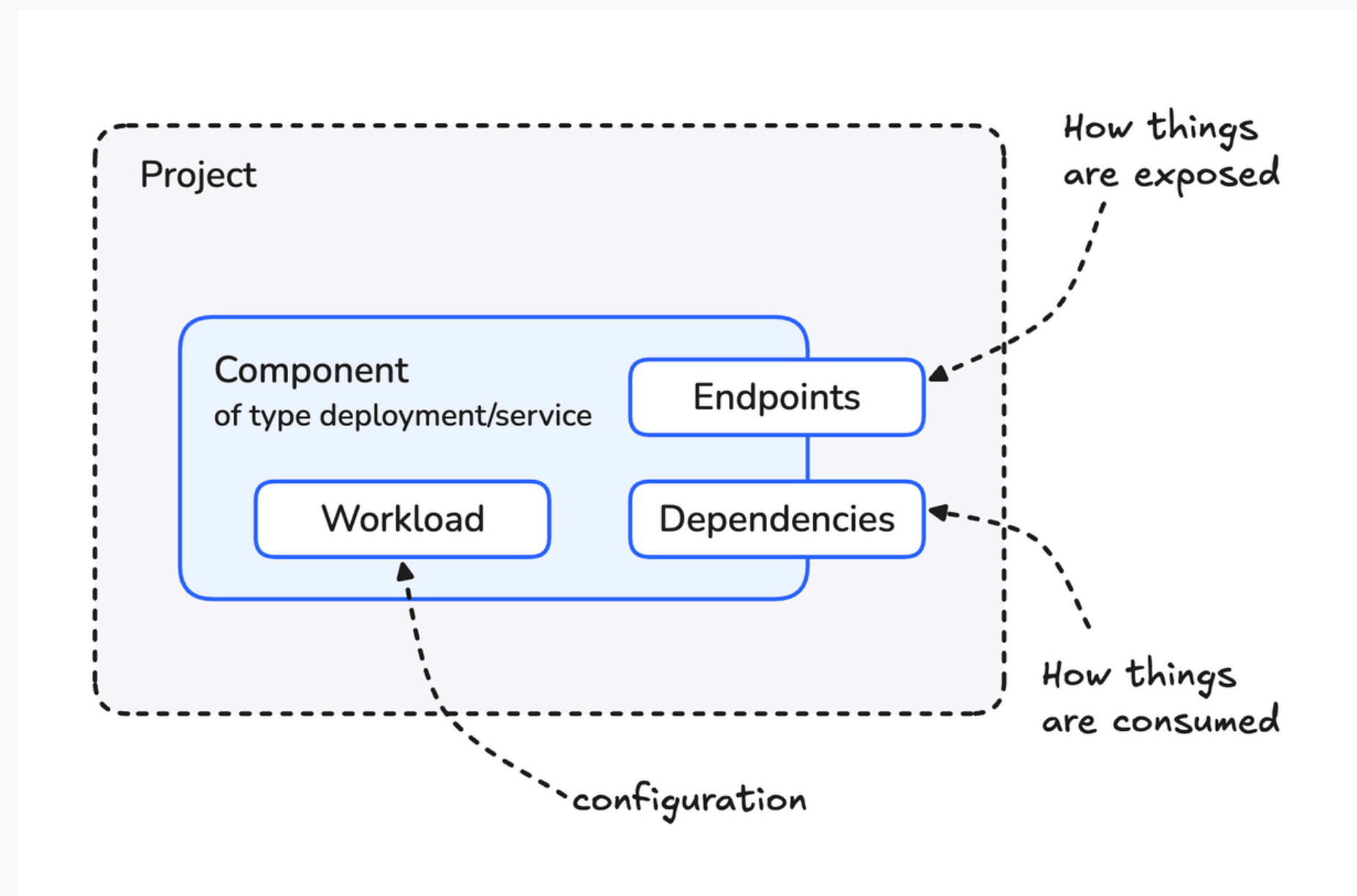


Platform abstractions describe how the platform runs.

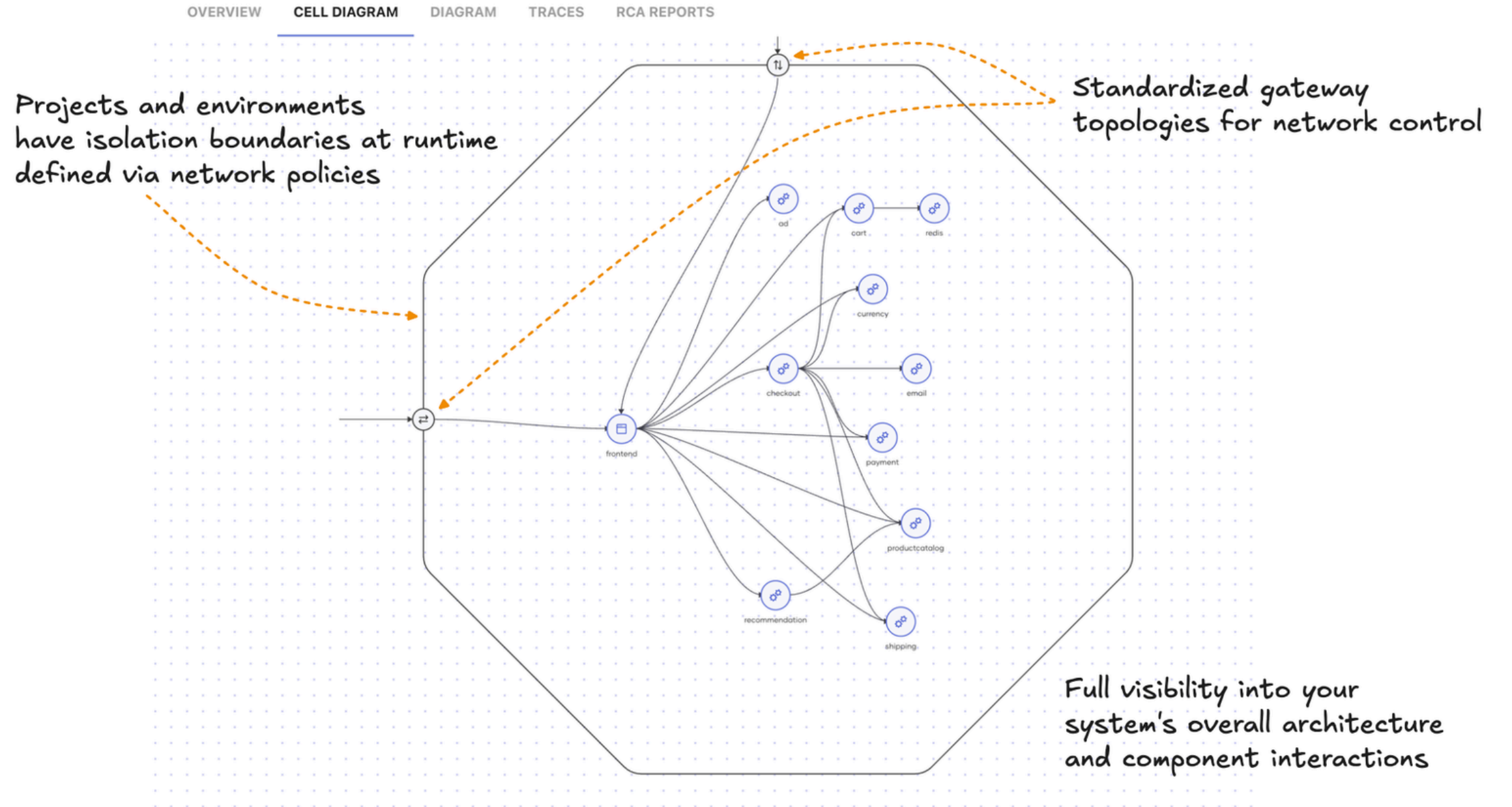
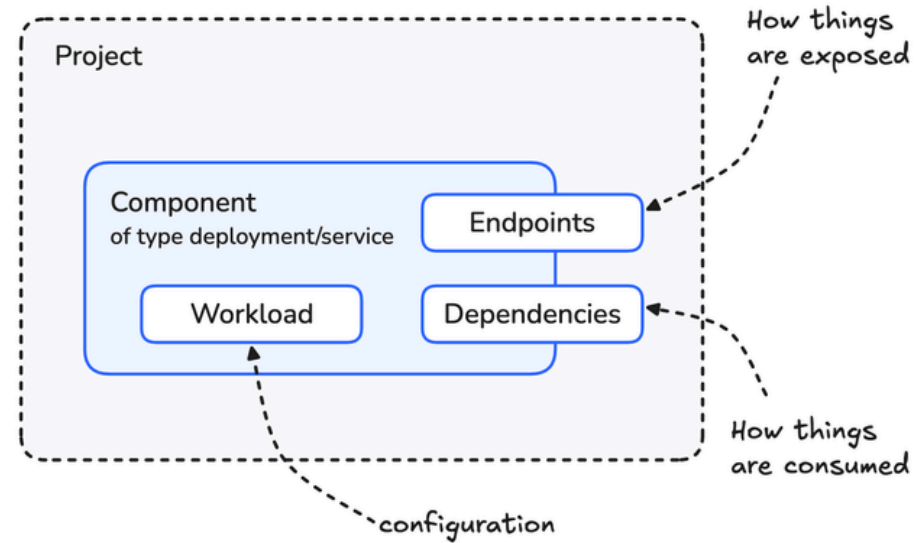
Developer abstractions describe what the developer ships.



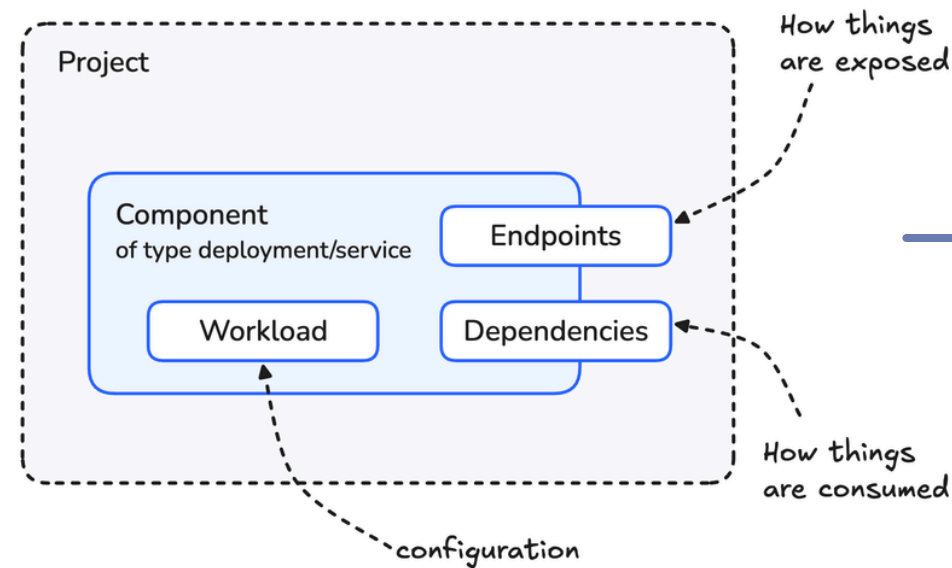
Developer Abstractions



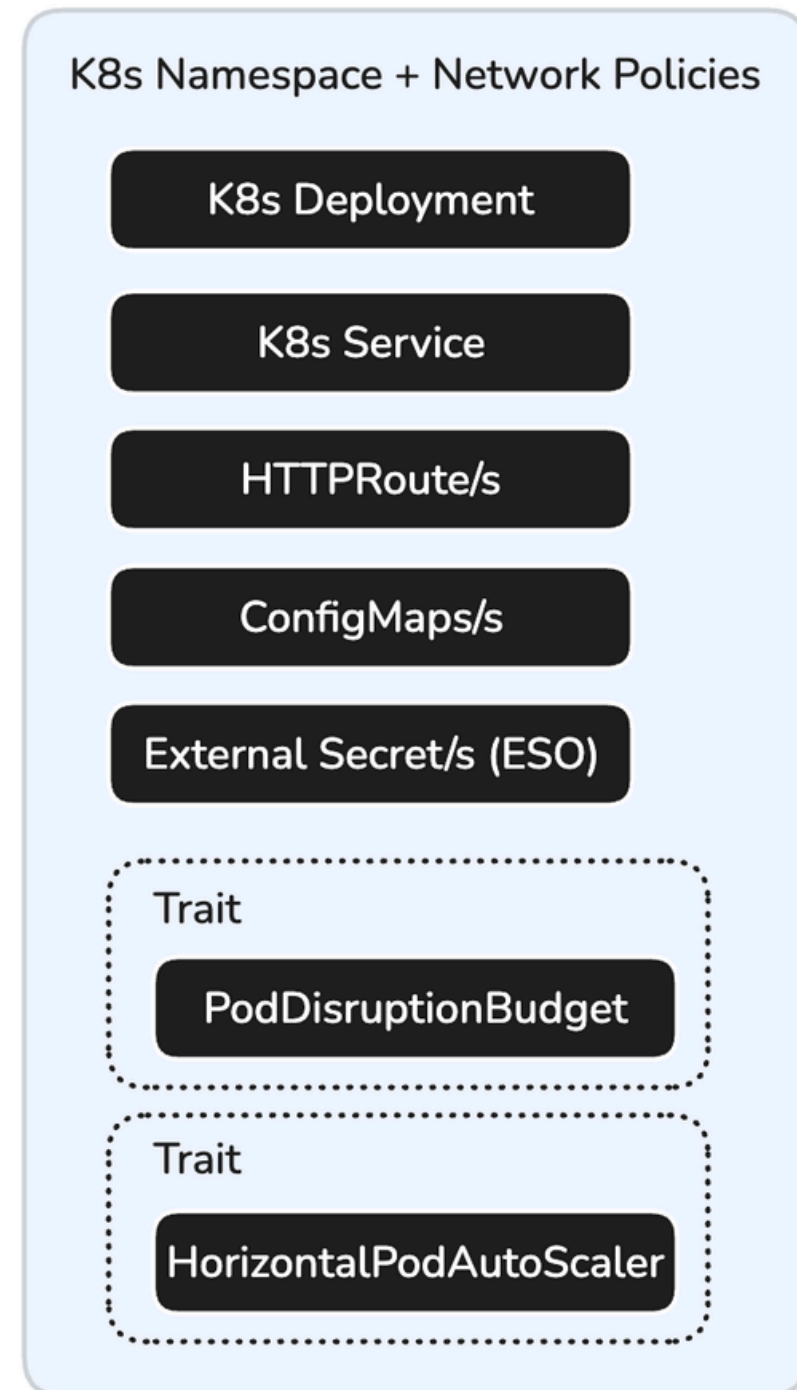
Runtime Semantics



Compiling Developer Intent



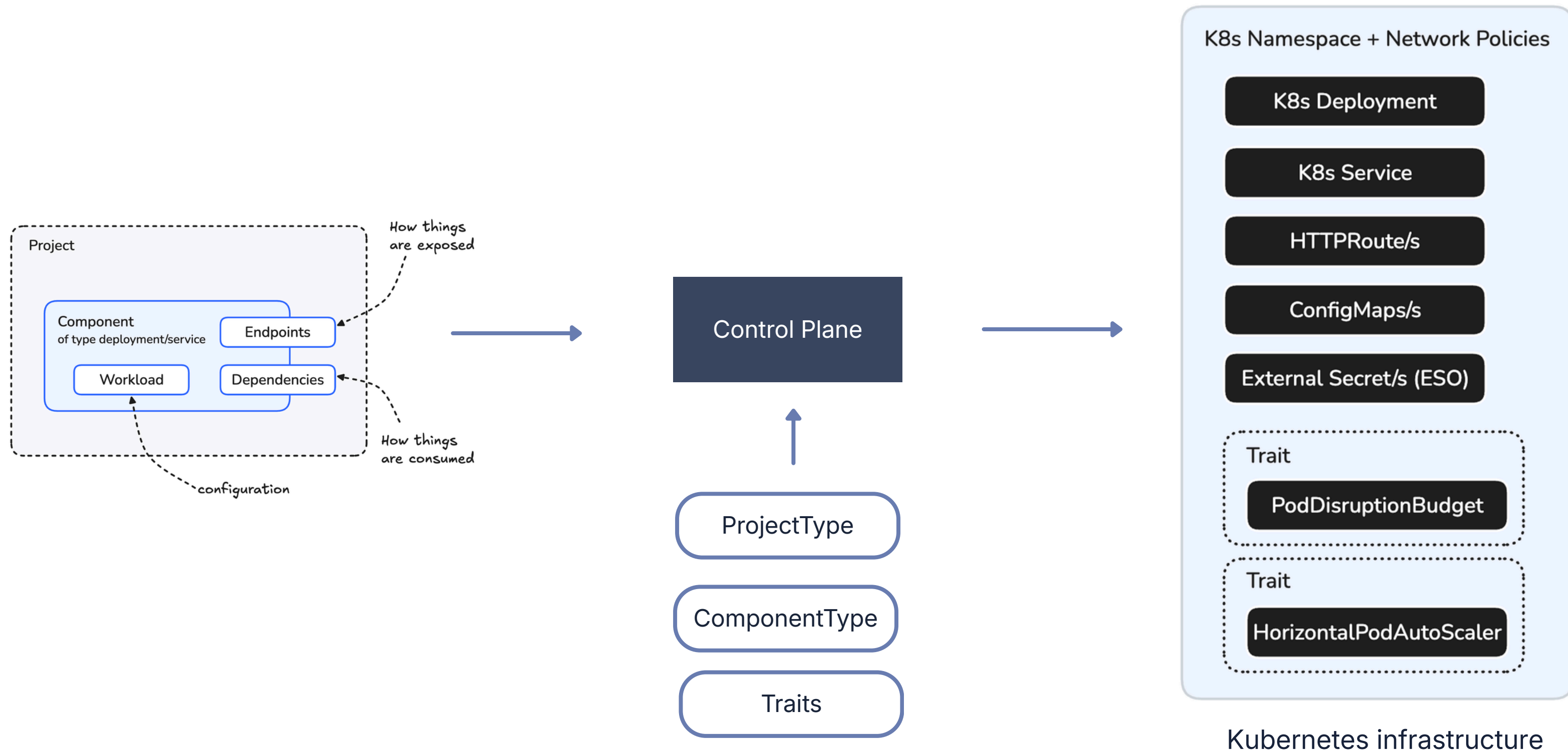
Control Plane



Kubernetes infrastructure



Programming the Compiler



Developer Experience (DevEx)

Developer Experience

CLI, YAML, Portal, MCP
Choose your workflow

API

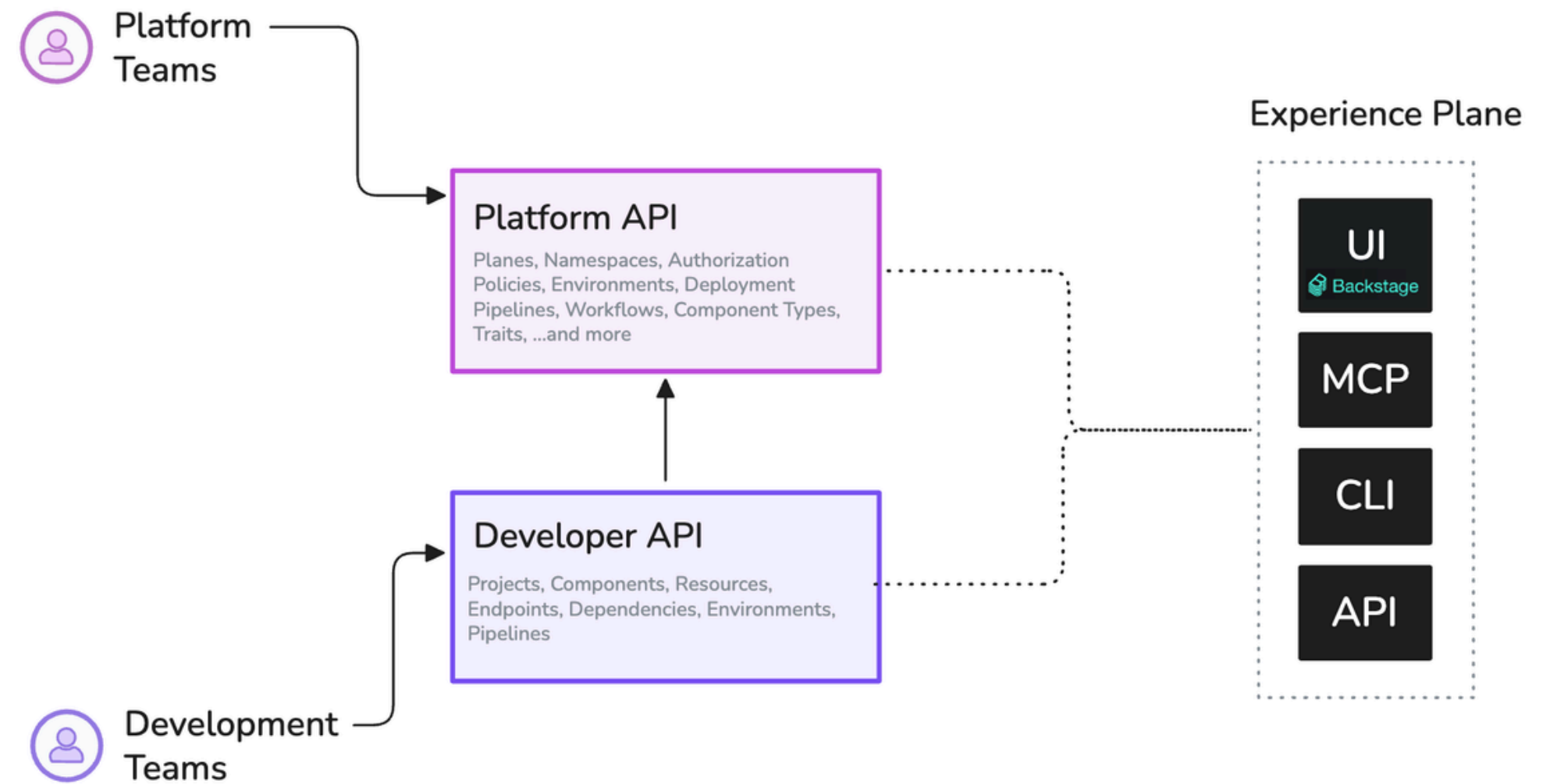
Capabilities offered by the platform

Platform Engine

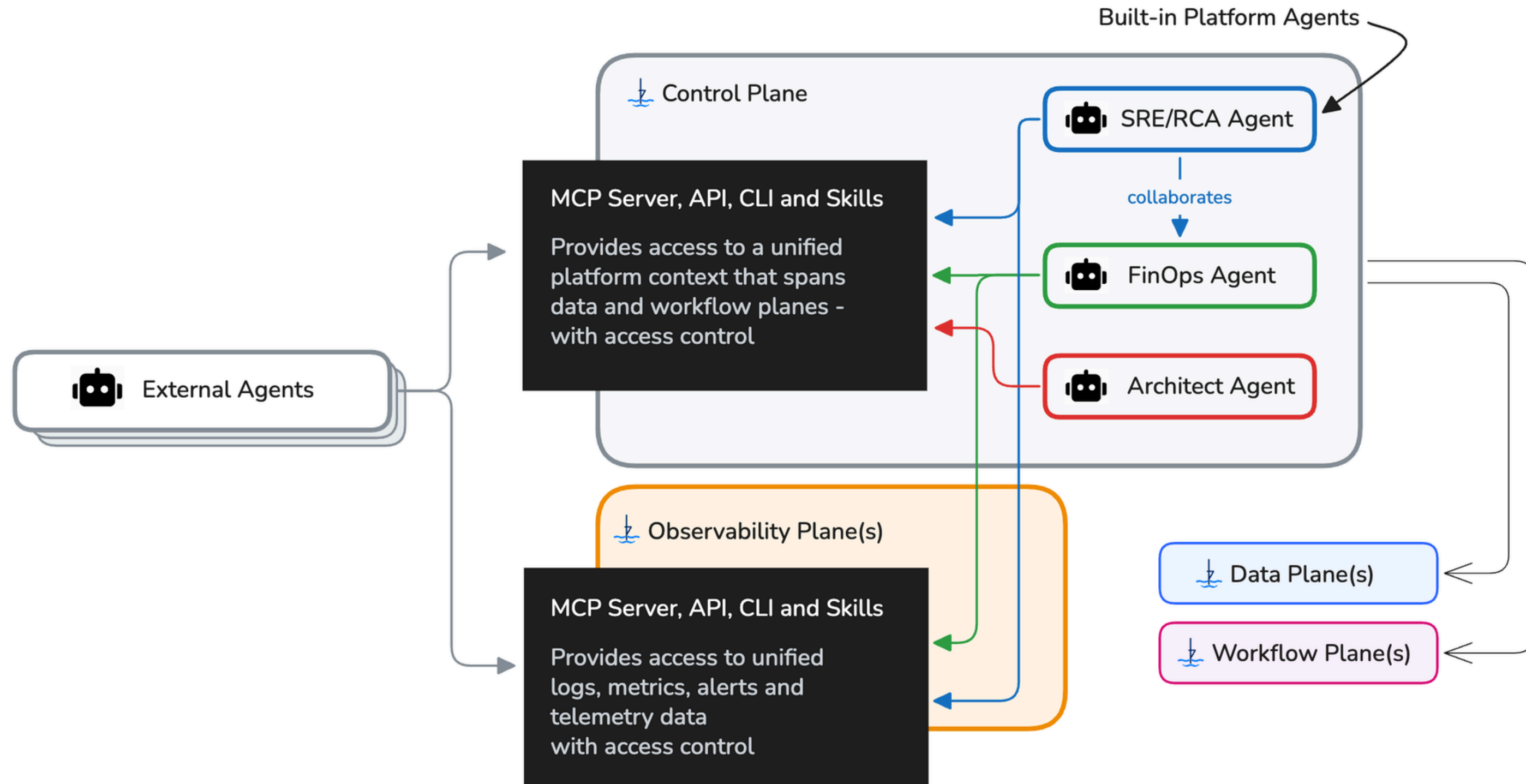
Kubernetes, CI/CD, observability, security, networking
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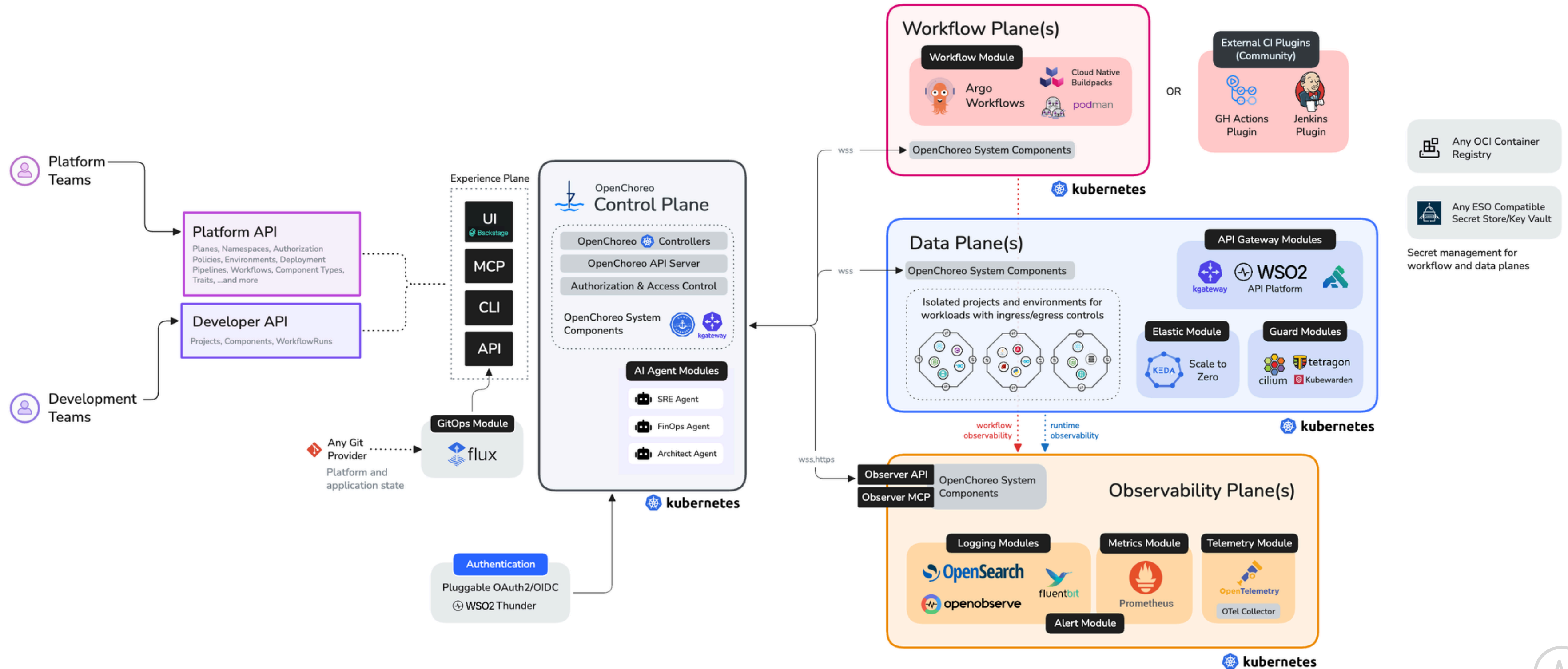
Meet Them Where They Are



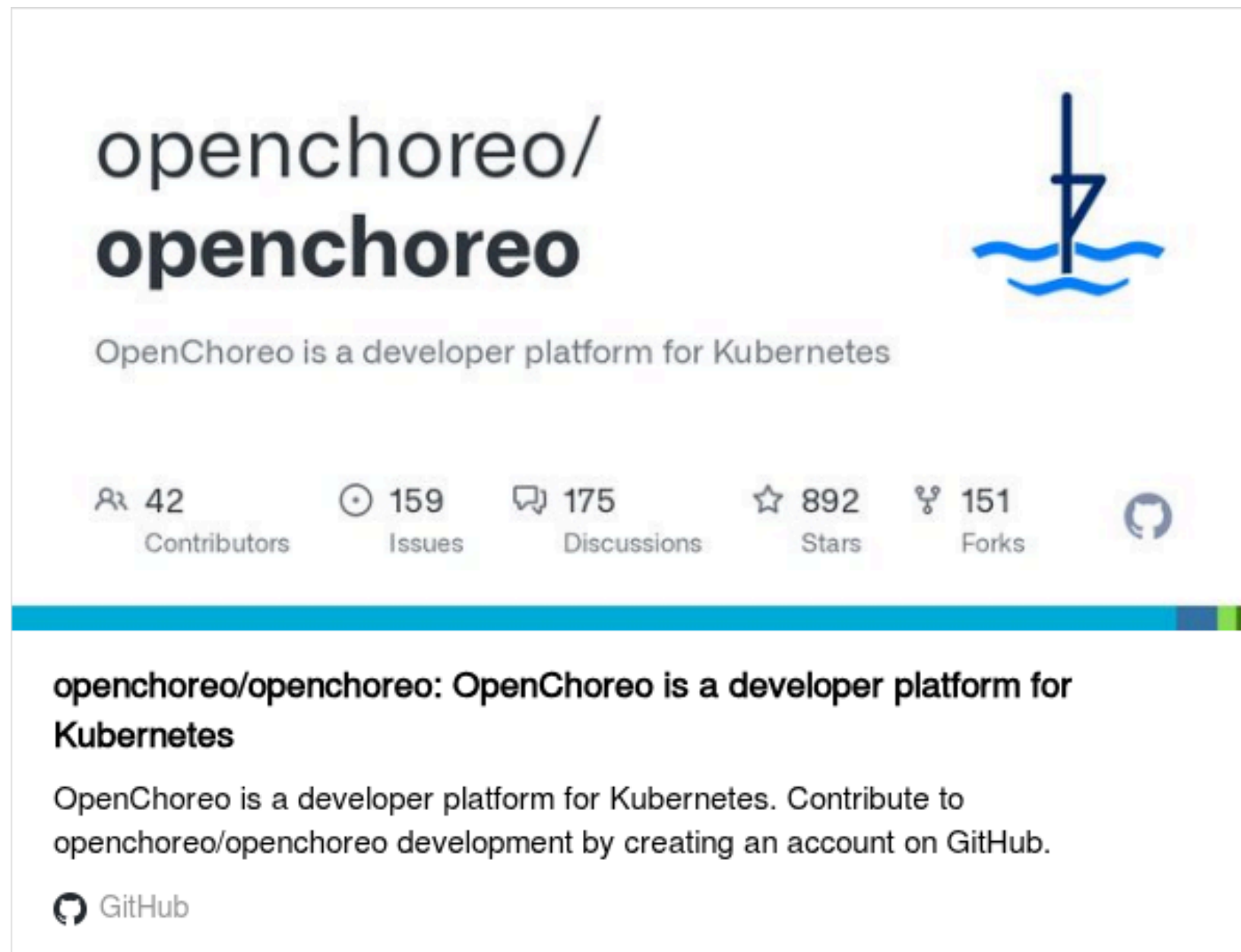
Agents are first-class citizens.



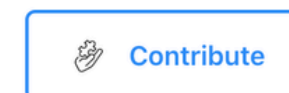
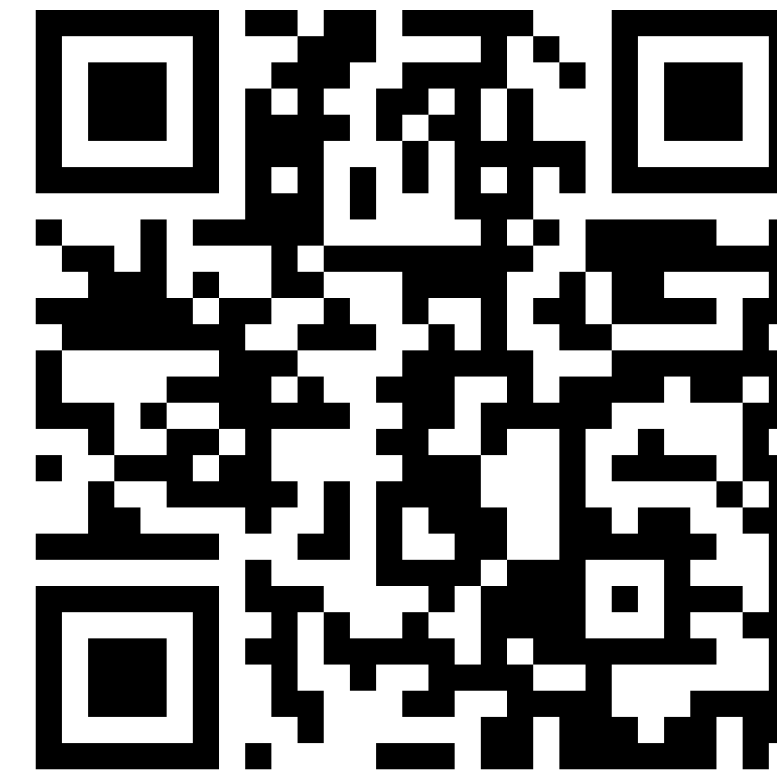
Three layers. One system.



Join the OpenChoreo Community



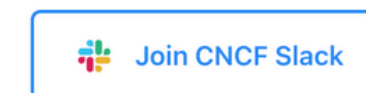
The screenshot shows the GitHub repository page for `openchoreo/openchoreo`. The repository name is displayed in large, bold text. Below it, a description states: "OpenChoreo is a developer platform for Kubernetes". To the right of the text is the OpenChoreo logo, which depicts a stylized sailboat on waves. Below the description, statistics are shown: 42 Contributors, 159 Issues, 175 Discussions, 892 Stars, and 151 Forks. A blue bar highlights the repository name and description. Below the bar, the text reads: "openchoreo/openchoreo: OpenChoreo is a developer platform for Kubernetes". Further down, it says: "OpenChoreo is a developer platform for Kubernetes. Contribute to openchoreo/openchoreo development by creating an account on GitHub." and includes the GitHub logo.



Help shape OpenChoreo by submitting features, fixes, or improvements.



Identify bugs and suggest enhancements to make the platform better for everyone.



Join #openchoreo channel to get real-time support, ask questions, and engage with other users.



Build the platform

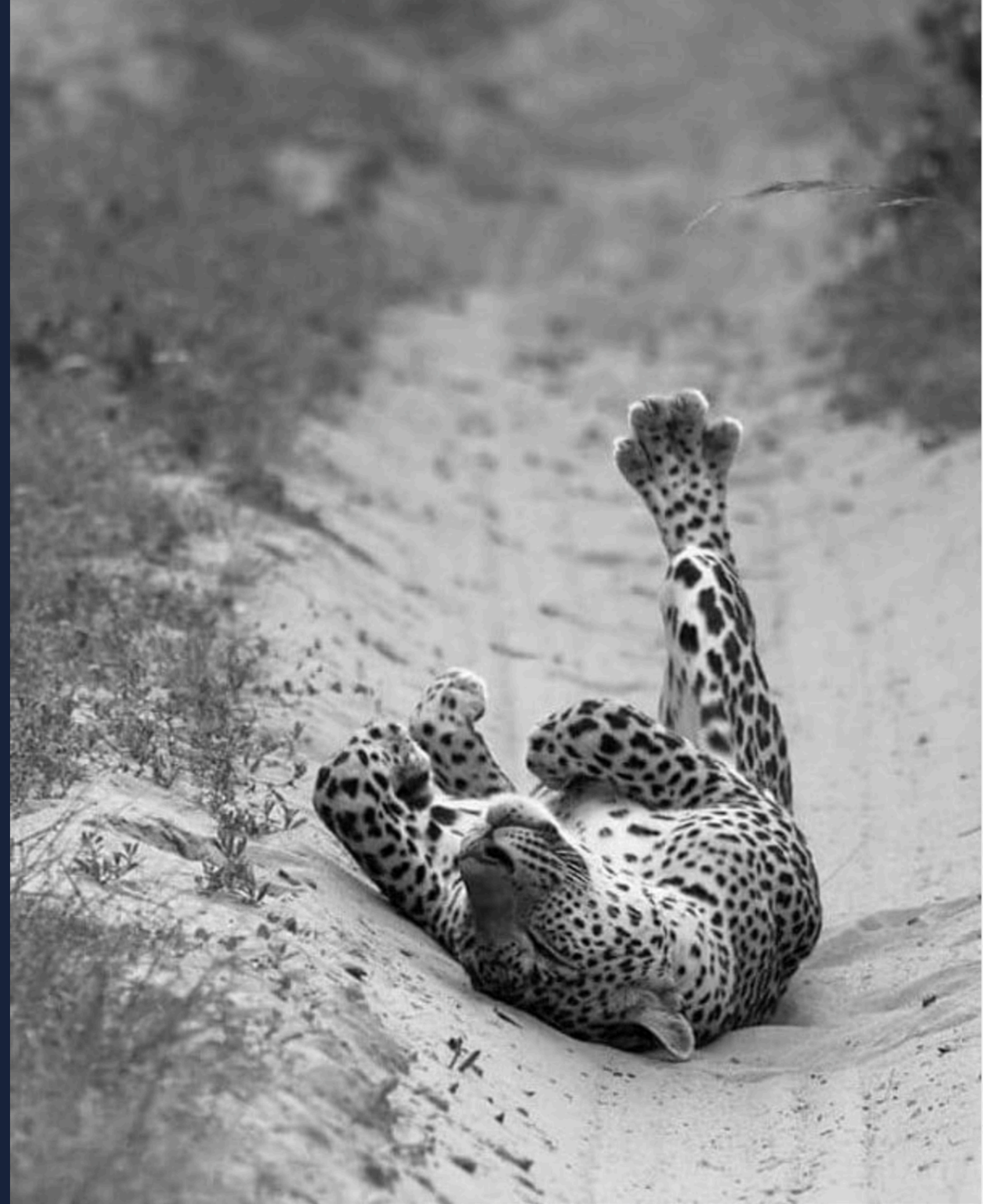
don't make developers do it.

Abstractions are the contract

get them right.

Same contract, every surface

humans and agents.



Thank you!