Platform Engineering

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Code To Cloud

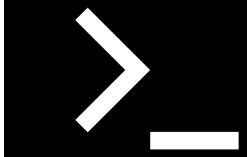
Microsoft

Who am I ?

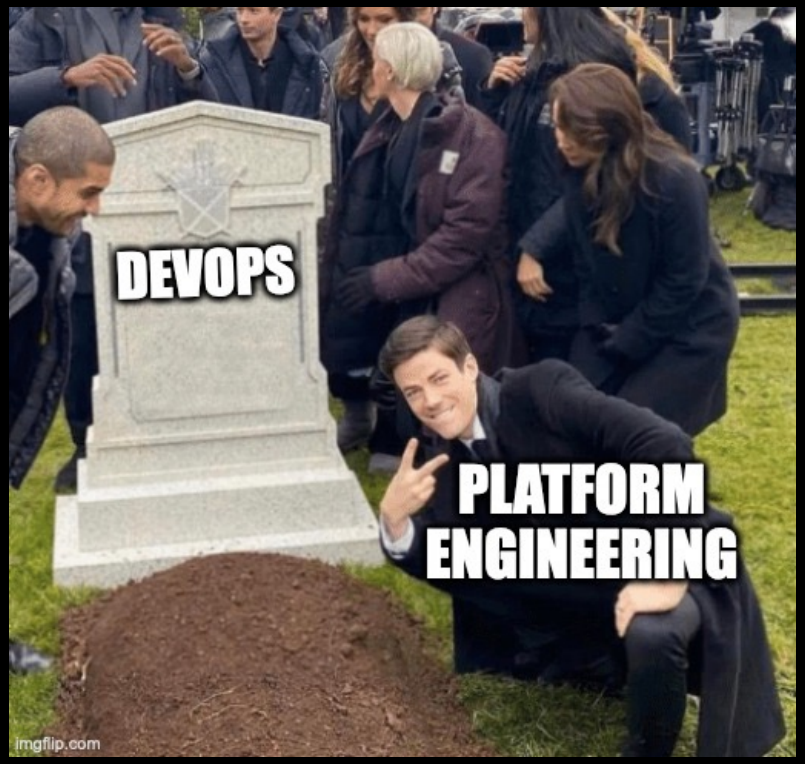
CLOUD NATIVE
COMPUTING FOUNDATION

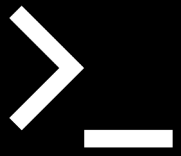
What is Platform Engineering?

CNCF: “Platform engineering is the discipline of designing and building internal platforms for software delivery.”



Is DevOps Dead?





What Platform Engineering Isn’t

Not SRE. Not DevOps. Not Magic.

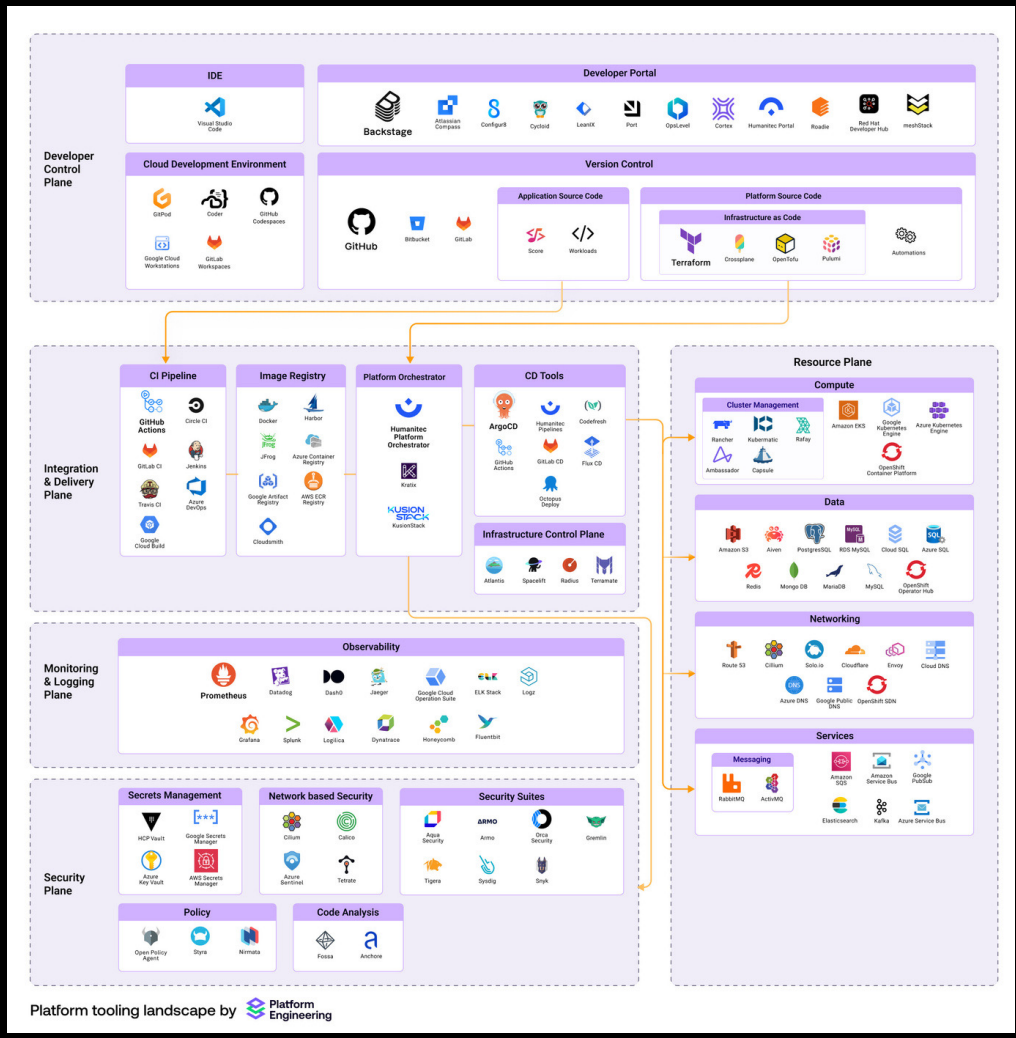
- **Platform ≠ SRE (though they collaborate)**
- **Platform ≠ DevOps (it’s DevOps applied as a product)**
- **Platform ≠ a Team that says “no”**

Why Platform Engineering is Emerging Now

- Developer experience (DX) matters.
- Cognitive load is too high.
- Kubernetes is powerful but complex.
- Every team building the same infra is inefficient.

The Building Blocks

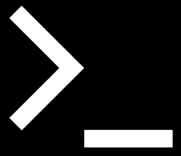
- Internal Developer Portal (Backstage, Port)
- GitOps (ArgoCD, Flux)
- Kubernetes (as baseline infra)
- CI/CD pipelines (GitHub)
- Secrets Management (Vault, External Secrets)
- Observability (Prometheus, Grafana, OpenTelemetry)
- Copilots



Platform tooling landscape by Platform Engineering

Treating the Platform as a Product

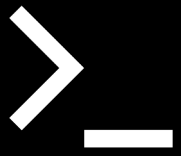
- Features, roadmaps, personas
- Developer interviews & feedback loops
- UX > Tools



Why HEART Matters for Platform Engineering

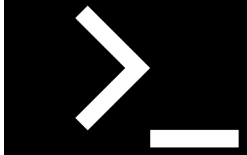
HEART Applied to Platform Engineering

- Happiness 👩‍💻
- Engagement 🔄
- Adoption 🚀
- Retention 🔒
- Task Success ✅



Case Studies

- Spotify (Backstage)
- Netflix (developer self-service)

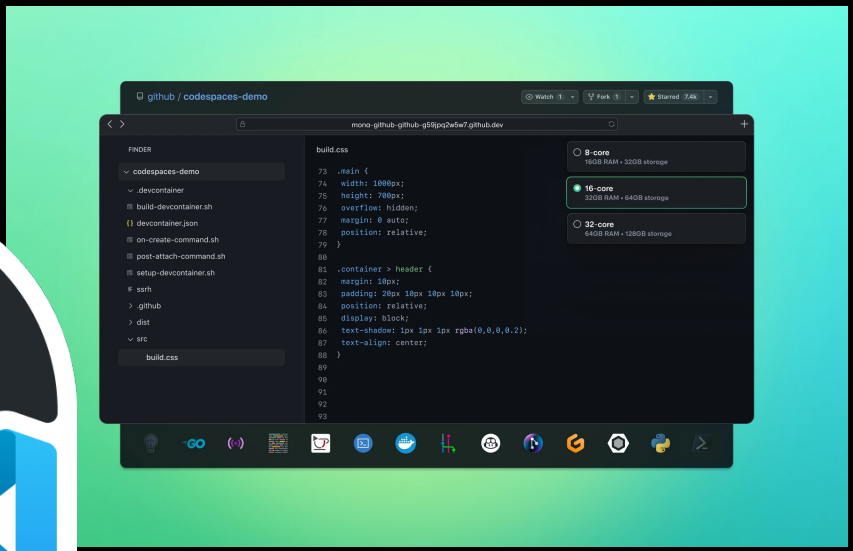


Where Platforms Go to Die

- No team buy-in
- Poor onboarding UX
- Everything-as-a-Service fatigue
- Over Engineered

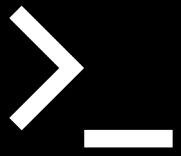
DX is the North Star

- Fewer clicks, faster deploys
- Clear documentation
- Joyful onboarding



Start Small, Stay Focused

- Pick a team, problem, tech stack
- Build a paved path for one use case



Level Up Your Skills

CNCF Certifications:

- Certified Cloud Native Platform Engineering Associate (CNPA)
- CKA (Kubernetes)
- Training: CNCF Learn

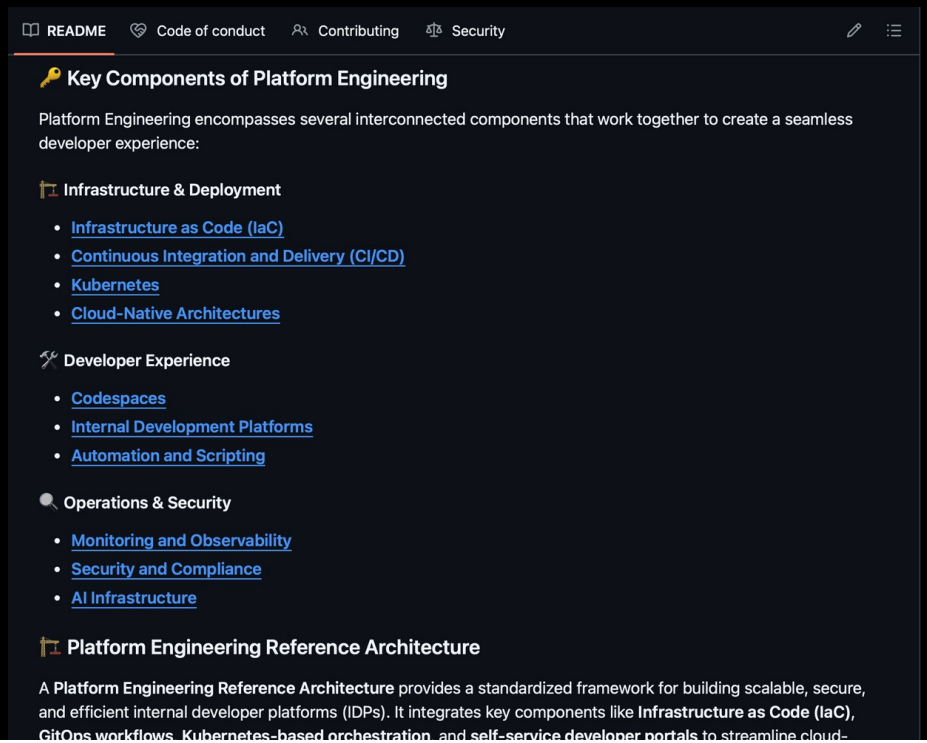
Assesments

- Platform Engineering Technical Assessment (Microsoft)

Our Open Platform Reference Stack

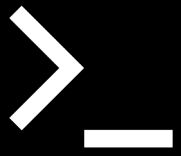
GitHub link to your platform repo
What's inside (IaC, CI/CD, IDP, GitOps)

connect.codetocloud.io



What is it?

- An open-source application platform for multi-cloud and on-prem environments.
- Lets developers deploy apps (containers, databases, messaging, etc.) using Bicep/Terraform recipes without worrying about provider specifics.
- Integrates with Azure, Kubernetes, Terraform, and cloud-native tools.



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What does it do?

- 🧩 Composable: Define apps + infra in one place (IaC).
- 🚀 Consistent: Same workflow across local dev, Kubernetes, and cloud.
- 🔒 Provider-agnostic: Switch between Azure, AWS, GCP, or local clusters.
- ⚡ Faster delivery: Simplifies developer experience and reduces ops overhead.

Demo Time!

Use Cases

- Local testing on Kubernetes.
- Hybrid app deployments (on-prem + cloud).
- Cloud portability & multi-cloud strategies.

Build With Us

Code to Cloud is on a mission to connect cloud-native technologists across Western Canada.

➡️ **Visit: codetocloud.io**

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Thank
you!