Building Production Environments with open-source Kubernetes Operators

- **Speaker**: Pushkar Gopalakrishna
- **Room**: 332
- **Time**: Saturday, Oct 24th 2:00 – 2:20pm

- **Format**: Talk (20 minutes)
- **Difficulty**: Intermediate
- **Track**: Cloud Native & Infrastructure
- **Additional Tags**: Kubernetes, Platform Engineering, Crossplane, GitOps, Argo CD, Istio, Infrastructure as Code
- **Experience**: Staff Software Engineer with over a decade of experience building large-scale cloud infrastructure, distributed systems, and reliable production platforms.

Description:

Modern services depend on a complex orchestration of compute, databases, messaging, and observability tools that must work reliably across multiple environments. This session explores how to combine open-source Kubernetes operators—including Config Connector, Istio, Argo CD, and Crossplane—to build complete, isolated, self-service environments. The presenter will share practical lessons on using these controllers as building blocks for platform engineering, demonstrating how Crossplane compositions can transform low-level infrastructure resources into higher-level platform APIs. Attendees will learn how to provision cloud infrastructure, networking, and security controls automatically while enforcing organizational standards without sacrificing flexibility.

Target Audience:

- Platform engineers and SREs
- Kubernetes users looking to scale infrastructure management
- Software architects interested in cloud-native platform APIs

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