LEVEL UP

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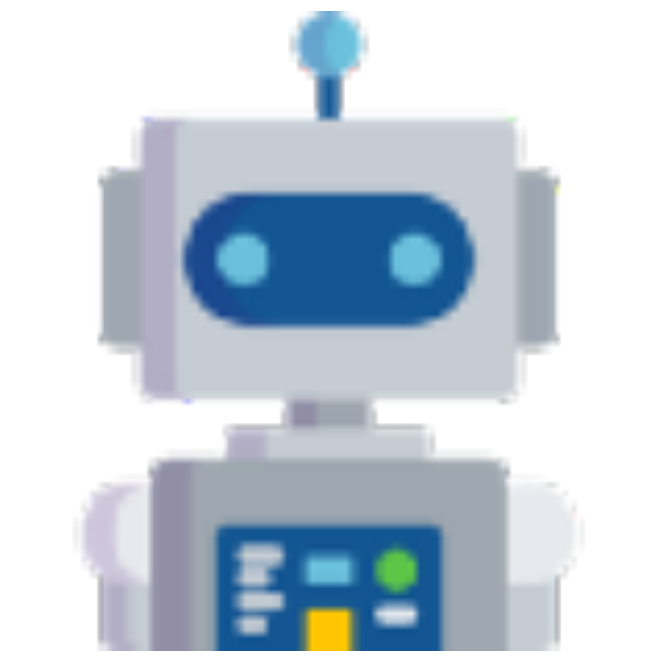
# GitOps

Reversing the streams



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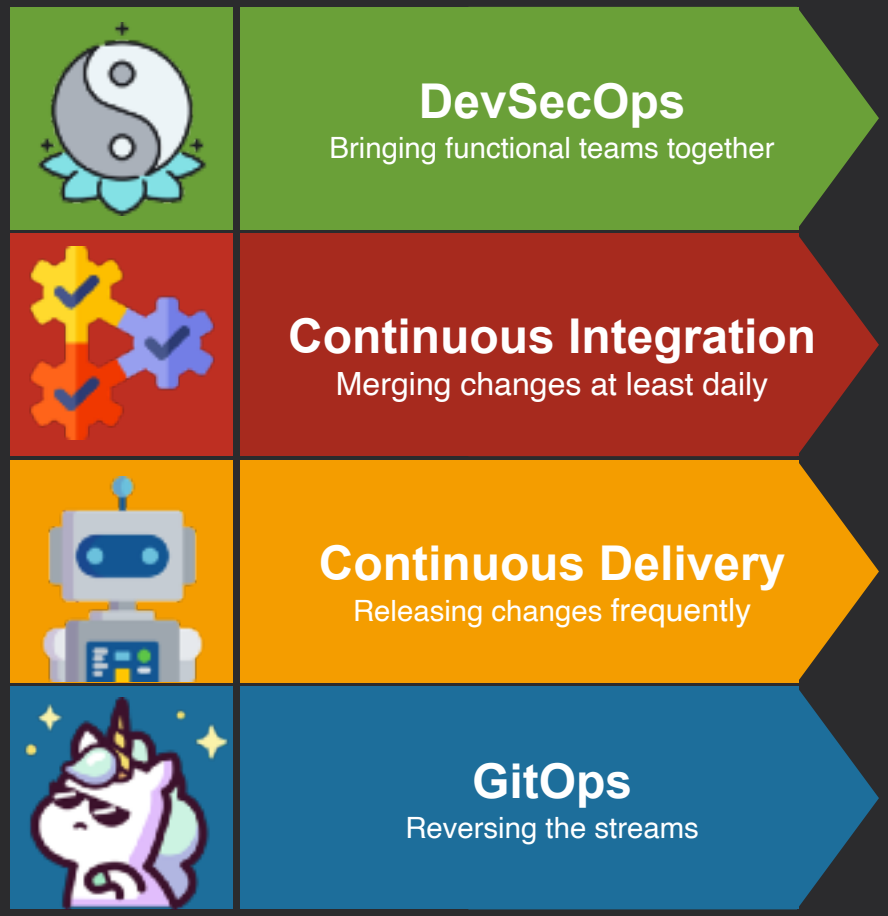
# Continuous Improvement Towards Perfection



Continuous Delivery, by Martin Fowler

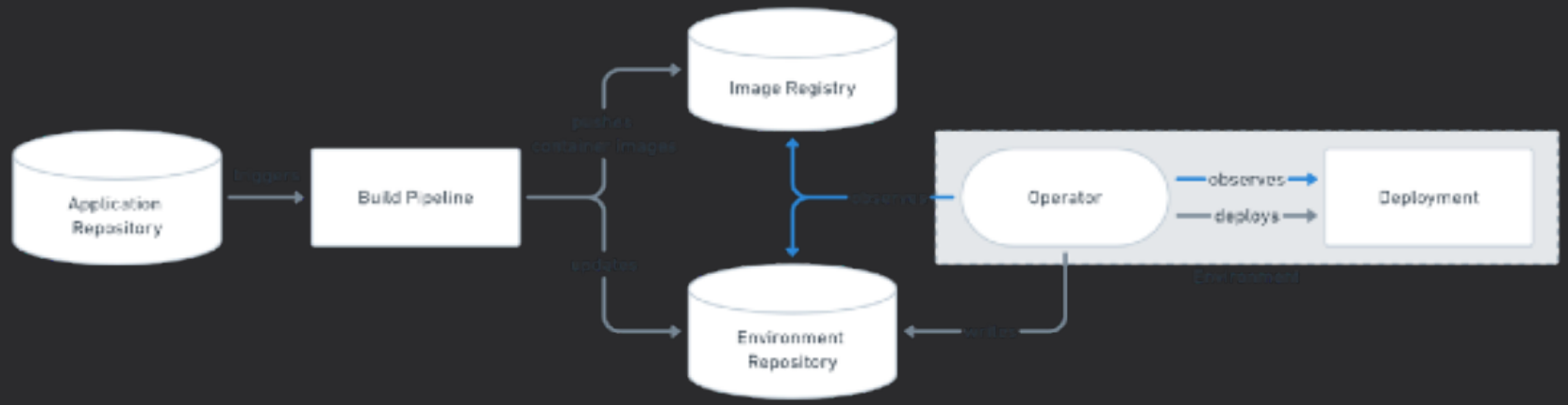
# GitOps

As specified by the CNCF

## What is GitOps?

GitOps is a set of principles for operating and managing software systems. Under GitOps, the infrastructure and application state are fully represented by the contents of a Git repository. Thus, any changes to the Git repository are reflected in the corresponding state of the associated infrastructure and applications through automation. The desired state of a GitOps managed system must be:

- **Declarative**
  A system managed by GitOps must have its desired state expressed declaratively.
- **Versioned and Immutable**
  Desired state is stored in a way that enforces immutability, versioning and retains a complete version history.
- **Pulled Automatically**
  Software agents automatically pull the desired state declarations from the source.
- **Continuously Reconciled**
  Software agents continuously observe actual system state and attempt to apply the desired state.




https://github.com/open-gitops/documents
https://www.gitops.tech

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