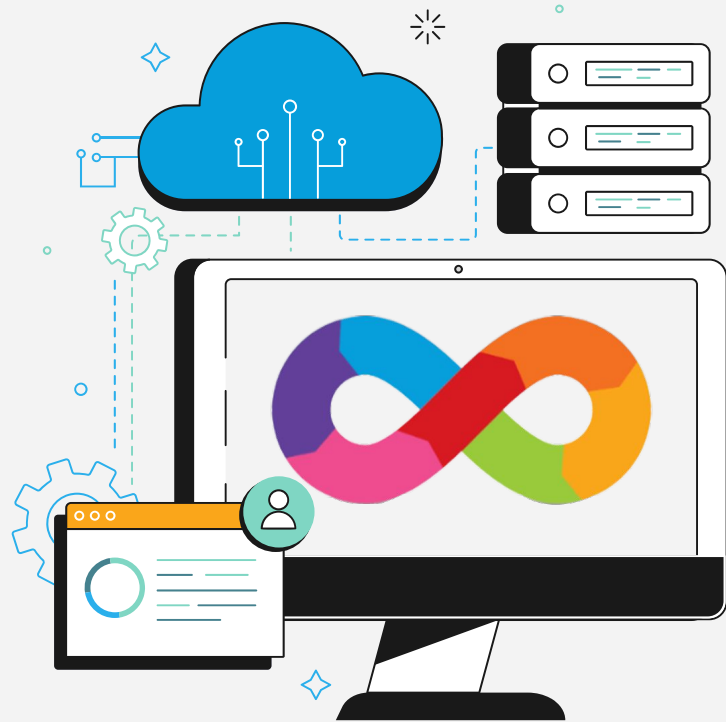


Introduction to DevOps

@ IBA – SMCS

Week 06
GitOps



Obaid ur Rehman
Software Architect / Engineering Manager @ Folio3



- What is GitOps?
- A non-GitOps workflow.
- A GitOps workflow
 - Push deployment
 - Pull deployment
- Benefits
 - Security
 - Rollback
 - Single source of truth

What is GitOps

GitOps is a way of implementing Continuous Deployment for cloud native applications, coined by **Weaveworks** in 2017.

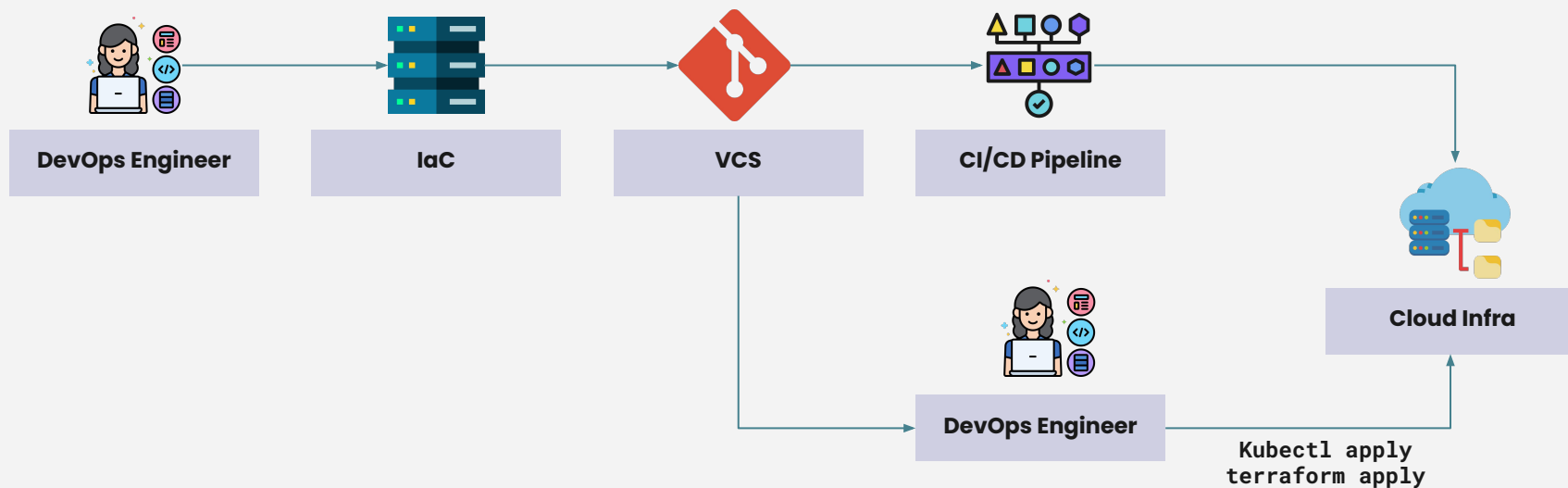
It focuses on a developer-centric experience when operating infrastructure, by using tools developers are already familiar with, such as Git, Infrastructure as Code, and Continuous Integration.



Principles

- Infrastructure is defined declaratively
- Its is version controlled
- There is auto-reconciliation

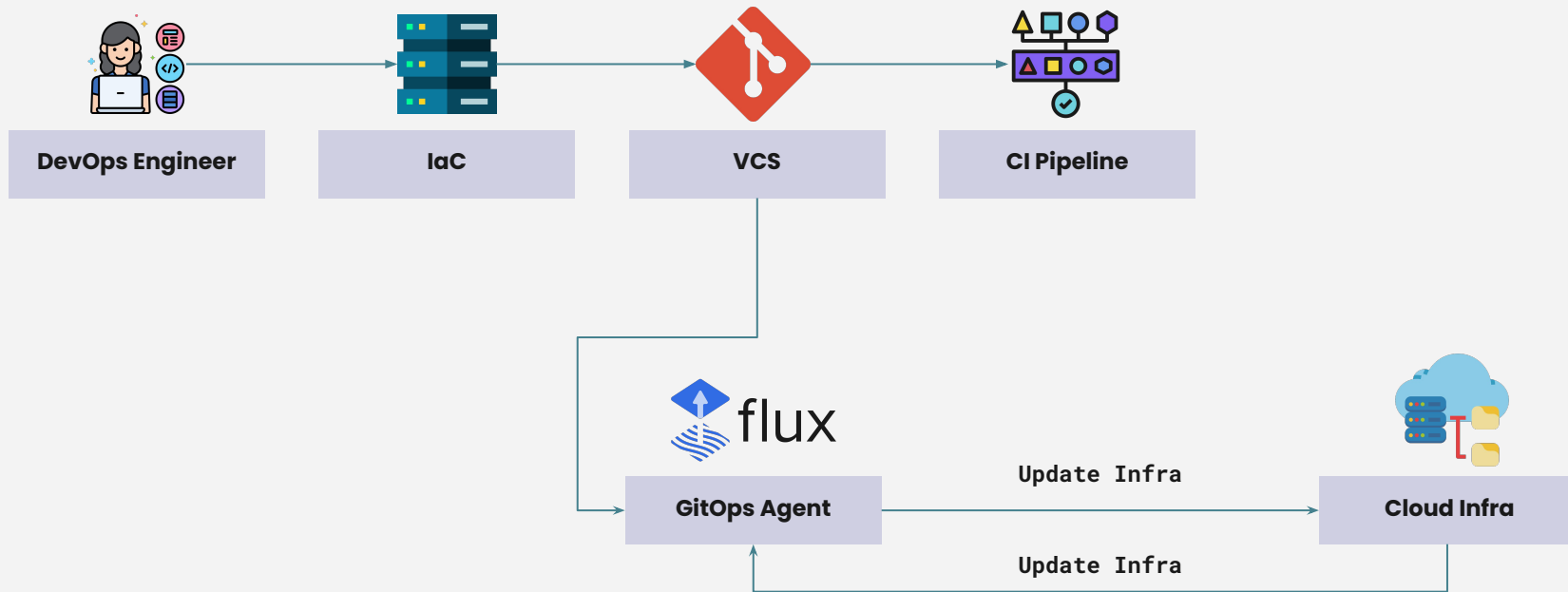
Standard non GitOps Infra CI/CD



What is GitOps?



gitops is



Why GitOps?

- Deploy Faster and More Often
- Easy and Fast Error Recovery
- Secure Deployments

Hands-on Demo

Use Flux CD to enable gitOps on MiniKube

Repository for Flux:

<https://github.com/ObaidUrRehman/flux-demo-app>

<https://github.com/ObaidUrRehman/flux-minikube>

End of Week 6/1

Q&A

