

# Cloud and DevOps

1. Hello Cloud
2. Software development
3. AWS & Serverless
4. Security in AWS
5. Advanced Security & CICD
6. Testing, Cost and Security at Ohpen
7. 🎉 **Final Recap + Guest speaker** 🎉

# Today class ...

- 09:00 - 11:00 : Recap
- 11:00 - 11:30 : Break + Conference setup
- 11:30 - 13:00 : Conference + Q&A

# DEVelopment & OPerationS

“ Culture, practices, and tools that teams use to deliver services at high velocity. ”

What is Devops?

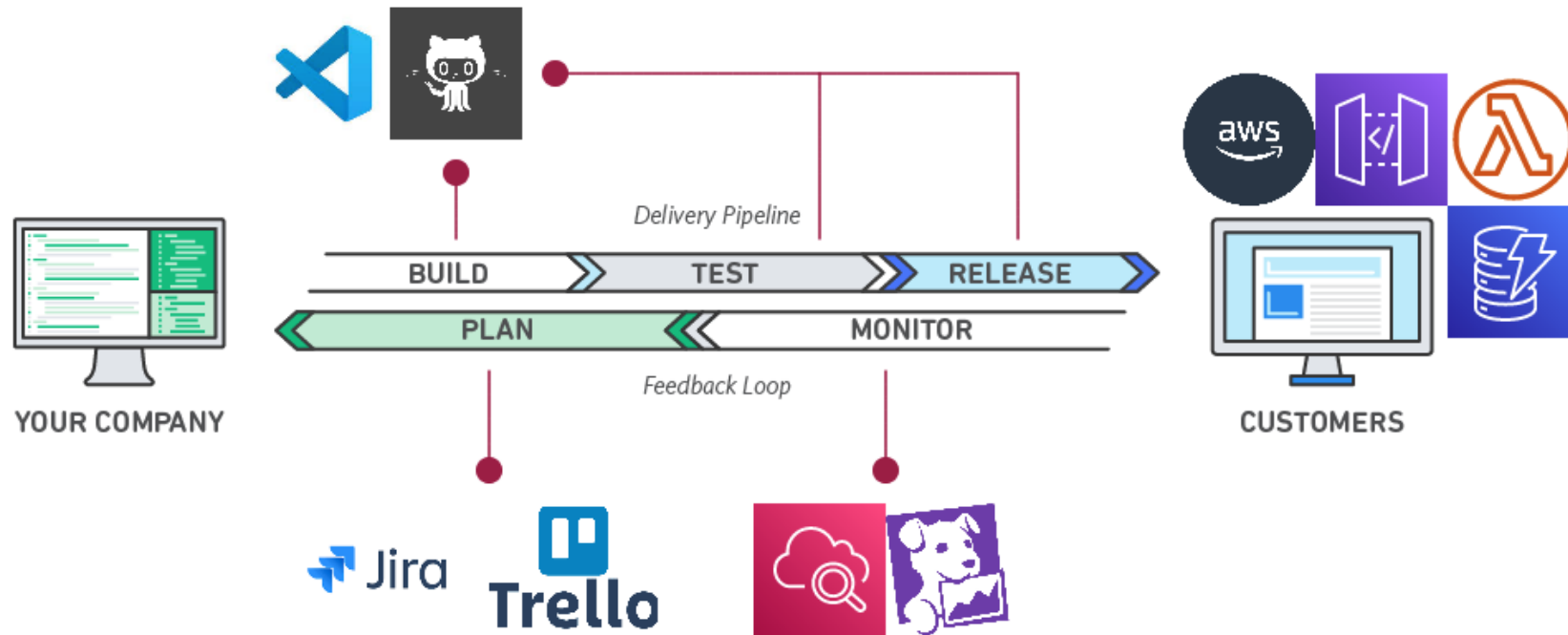
# DevOps Culture

“ Break barriers between siloed teams:  
Development , QA , Security , and Operations ”

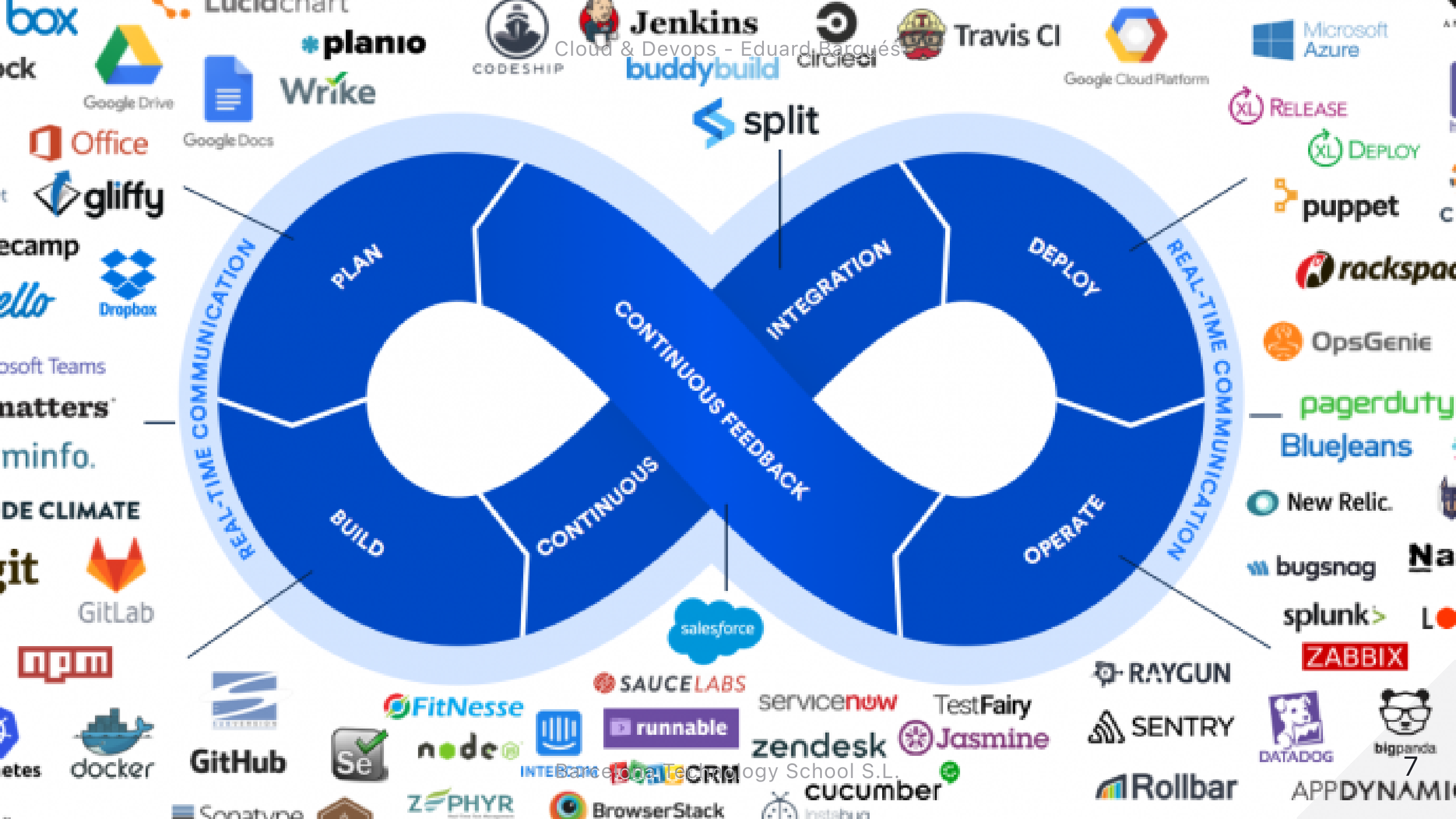
- Improve the productivity of developers and reliability of operations.
- Communicate frequently, increase efficiency, and improve quality.
- Full ownership with Customer-first mindset.

# DevOps Practices

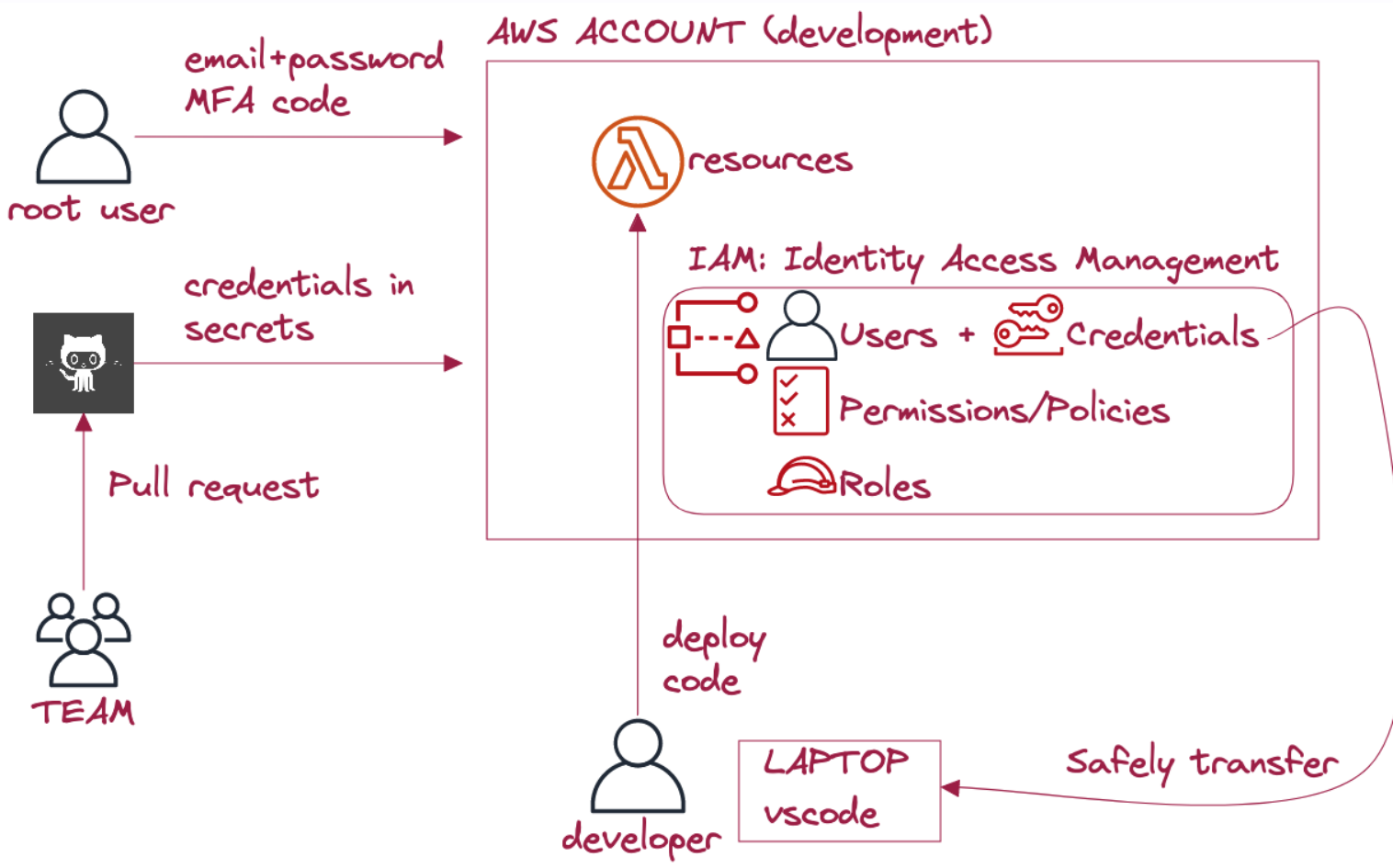
- Frequent and small updates.
- Decoupled architectures: Micro-services, Event-driven
- **C**ontinuous **I**ntegration and **D**elivery
- Infrastructure automation: IaC such as Terraform
- Monitoring: execution and performance via Cloudwatch
- ...



# DevOps Tools



# Security recap





# Security IAM roles

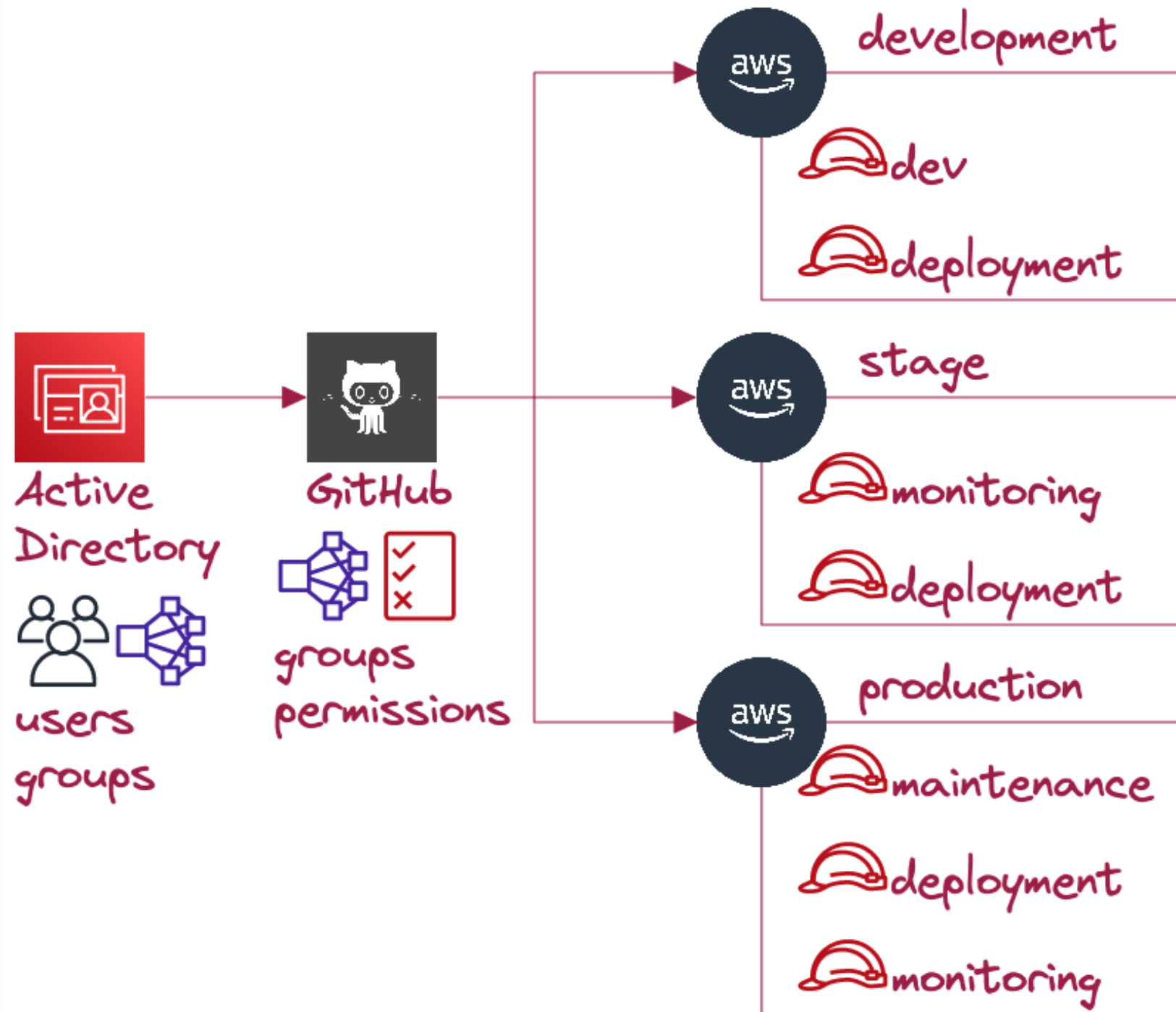


“ How do we translate user permissions into Services? ”

- Roles can be assumed if allowed.
- Roles don't have credentials but temporary keys.
- AWS services use IAM roles. [Let's see it.](#)
- How are our lambdas allowed to access our Dynamodb?

# Permissions at Ohpen

- How users access AWS?
- How does Github deploy?
- How we ensure nobody can deploy from laptop?



## Active Directory & AWS SSO