

DAY 2: DEVOPS CULTURE

Introduction

DevOps is a culture that shifts the way that Development and Operations team members work together. It aims to foster trust, collaboration, problem resolution, and continuous improvement.

Teams use a variety of practices and tools in order to foster a DevOps culture. You might have heard of **automation** or **blameless retrospectives** and **version control systems**. When used within a DevOps culture, a team can be transformed.

Dev vs. Ops

A traditional software company often has a separate Development and Operations team.

- The **Development team** writes an application's features.
- The **Operation team** creates and maintains the infrastructure that the application runs on.

the Development team sends its code to the Operations team who deploys it on the infrastructure.

there is an inherent conflict between the two teams. Devs want to make new features, and Ops wants the product to be as stable as possible. Unfortunately, new changes are the biggest threat to the stability of a system.

The separation of Devs and Ops can result in a few issues:

- Differences between environments can lead to bugs that are difficult to resolve.
 - Handoffs between teams take time
 - Information is siloed, meaning decisions are often made without consideration of the other team.
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Dev + Ops

Teams that foster DevOps culture seek to be highly communicative. This integration of Development and Operations teams, can resolve many of the issues.

- Faster development and deployment cycles due to fewer handoffs &

shared knowledge

- Environment consistency from Development to Staging to Production
- Improvement of operations activities by applying dev best-practices like version control

A typical engineering team within a DevOps culture may include various engineers, quality assurance (QA) testers, security operations, and information technology (IT) specialists. Siloing information will only cause confusion and create more bugs. Keeping the teams together will result in team members can share responsibilities, align on team objectives, and make decisions together.

The people involved in a good Dev Ops team include:

- Developer
- Operations
- Security
- Bug Killing Developer

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