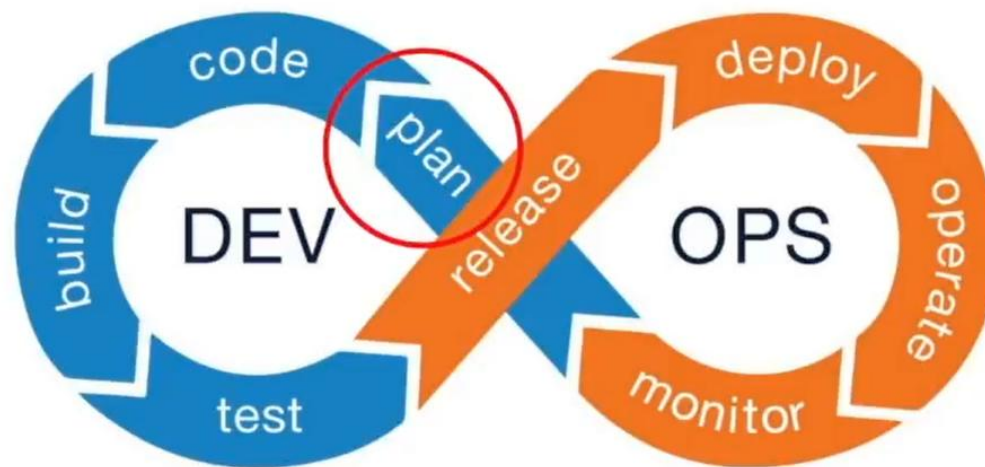




DevOps Definition

A methodology that helps engineering teams build products by continuously getting user feedback.



A window with a yellow title bar and a white content area, set against a blue background. The window has a thin black border and a yellow title bar with standard window control icons (minimize, maximize, close) in the top right corner. The text "Our company uses DevOps" is centered in the white area.

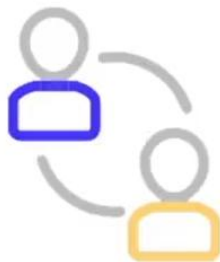
"Our company uses DevOps"



DevOps Engineering Definition

Practical use of DevOps within software engineering teams. Being able to build, test, release and monitor applications.

Devops Engineering Pillars



Pull Request
Automation

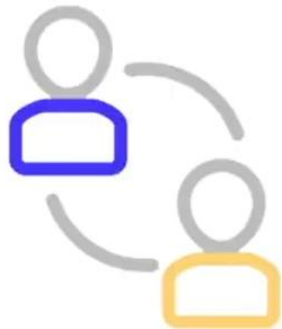


Deployment
Automation



Application
Performance
Management

Pull Request Automation



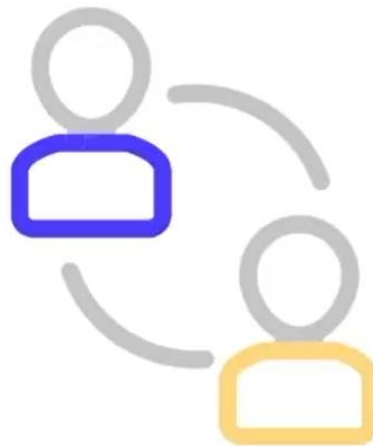
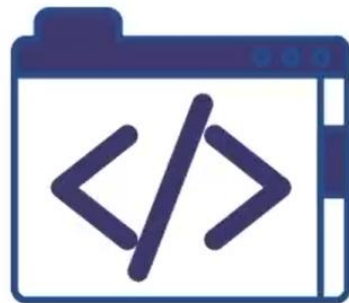
- Developers share code changes using git tools like GitHub, GitLab and Bitbucket
- A set of code changes in git tools is called a "pull request" or "merge request"
- If pull requests are approved, the code changes can go into the main codebase



Git Definition

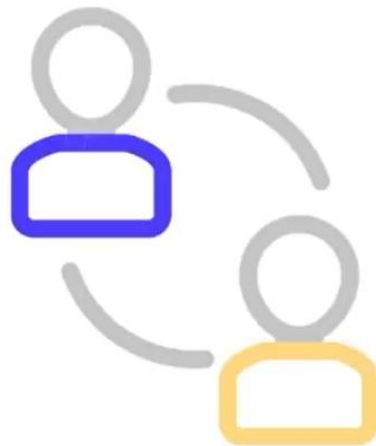
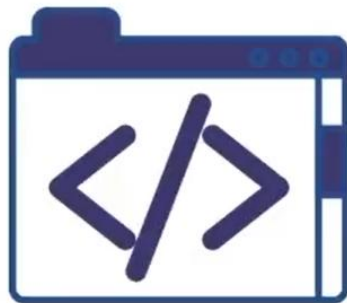
Git is used for cloud-based code change collaboration. See the full history of code changes, review developer changes, and store code in files called repositories.

The Code Review



code style
architecture
scaling

More feedback



Product Manager
Engineering Manager
Designers
Marketers
C-suite



What can you automate?

Continuous Integration (CI)

Per change ephemeral environments

Automated security scanning

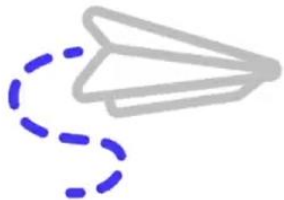
Notifications to reviewers



Goal as DevOps Engineer

Help developer change proposals get reviewed and merged within 24 hours of when they are made.

Deployment Automation



- Deploy a feature to a certain set of users as a final test before rolling it out publically
- Starting new versions of services without causing downtime
- Rolling back to the prior version in case something does go wrong

Application Performance Management



- Metrics: numeric measurements of key numbers in production
- Logging: text descriptions of what is happening during processing
- Monitoring: take metrics and logs to convert them into health metrics
- Alerting: If monitoring detects a problem, it notifies developer