

# LIKE A BOSS

## DEVOPS TERMINOLOGY

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Below are 10 essential terms that will help you navigate the world of DevOps:

### **DevOps Engineer**

The person capable of building and setting up the architecture and infrastructure of the project. (Hopefully you, by the end of this course.)

### **Agile**

Agile refers to iterative development, where requirements and solutions evolve through collaboration between self-organizing, cross-functional teams. Remember, Agile is not a buzzword like “synergy.” It is a set of tangible practices.

### **Scrum**

Scrum is a subset of Agile,. It’s a process framework for agile development, and the most widely-used one. Further, it is characterized by a set of roles, ceremonies (like development Sprints) and artifacts. The Scrum framework creates the environment where teams can become Agile.

### **Kanban**

Kanban refers to a means to design, manage, and improve flow for knowledge work. It also allows organizations to start with their existing workflow, and drive evolutionary change. Kanban helps visualize an existing flow of work, limit work in progress (WIP), and stop starting and start finishing.

### **Continuous Testing**

Continuous testing executes automated test cases as part of the build process. The software development team is immediately alerted to potential issues so they are able to address them before it gets out into production.

### **Regression Testing**

Regression testing is end-to-end testing of an application to ensure that any modifications have not negatively impacted its functionality.

## Pipeline

Pipelines are used to automate the build and testing of code, while also making it available to other users. Pipelines can work with just about any language or project type. They combine continuous integration (CI) and continuous delivery (CD) to constantly and consistently test, build, and ship code to any target.

## CI/CD

Continuous Integration refers to catching bugs or issues early in the development cycle, when they're easier and faster to fix.

Continuous Delivery automatically deploys and tests code from the CI process. Working in conjunction, these practices produce deployable artifacts.

## Artifact

An artifact is a deployable component of your application. Pipelines can deploy artifacts that are produced by a wide range of artifact sources, and that are stored in different types of artifact repositories.

## Repo

Azure Repos (i.e. repositories) is a set of **version control** tools you can use to manage code.

**Version control systems** help you track changes you make in your code over time. As you edit your code, you tell the version control system to take a snapshot of your files. The version control system saves that snapshot permanently so you can recall it later. Use version control to save your work and coordinate code changes across your team.

The most commonly used version control system today is called **Git**. It is quickly becoming the standard for version control.