

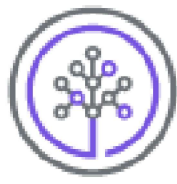
# Module 1 Glossary

Estimated reading time: 4 minutes

| Term                                           | Definition                                                                                                                                                                                                     | Where the term is introduced       |
|------------------------------------------------|----------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------------|------------------------------------|
| <b>Ansible</b>                                 | An open-source IaC tool that automates various IT tasks such as, configuration management, application deployment, and cloud provisioning.                                                                     | Infrastructure as Code (IaC) Video |
| <b>Build systems</b>                           | Software tools that automate the process of compiling the source code and generate executable programs or other deliverables.                                                                                  | Platform and Tools Video           |
| <b>Circle CI</b>                               | A CI/CD platform that enables the implementation of DevOps practices and supports Continuous Delivery.                                                                                                         | Platform and Tools Video           |
| <b>Configuration Management Systems (CMSs)</b> | Software tools or frameworks that enable organizations to manage and control the configuration of their systems and infrastructure in a consistent and efficient manner.                                       | Infrastructure as Code (IaC) Video |
| <b>Continuous Delivery</b>                     | A software development practice that focuses on automating the release and deployment of integrated code.                                                                                                      | What Is CI/CD? Video               |
| <b>Continuous Integration</b>                  | A software development practice that involves regular integration of code changes from multiple developers into the master repository.                                                                         | What Is CI/CD? Video               |
| <b>Declarative Approach</b>                    | An approach that focuses on describing the desired outcome or state without specifying the step-by-step procedure of that outcome.                                                                             | Infrastructure as Code (IaC) Video |
| <b>DevOps</b>                                  | Developer Operations is a methodology that combines software development and IT operations to improve collaboration, efficiency, and code quality.                                                             | Infrastructure as Code (IaC) Video |
| <b>DevOps Pipeline</b>                         | A series of automated processes and tools that facilitate the development, testing, deployment, and monitoring of software applications within the context of DevOps practices.                                | What Is CI/CD? Video               |
| <b>GitHub and Bitbucket</b>                    | Both are web-based platforms used for version control and collaboration in software development projects.                                                                                                      | Platform and Tools Video           |
| <b>Imperative Approach</b>                     | An approach in IaC where the dependencies and execution order need to be specified by the user. Tools like Chef and Ansible follow the imperative approach.                                                    | Infrastructure as Code (IaC) Video |
| <b>Infrastructure as Code</b>                  | An approach in which infrastructure configuration and management are automated using code.                                                                                                                     | Infrastructure as Code (IaC) Video |
| <b>Jenkins</b>                                 | A popular CI/CD software installed on a server to facilitate centralized build processes.                                                                                                                      | Platform and Tools Video           |
| <b>Pull requests</b>                           | Is a practice for reviewing and discussing code changes before merging them into the main branch.                                                                                                              | What Is CI/CD? Video               |
| <b>Repositories</b>                            | Platforms or systems that store and manage the versioned artifacts, such as binaries, libraries, or packages, produced during the software development process. Examples include Nexus and JFrog Artifactory.  | Platform and Tools Video           |
| <b>Ruby</b>                                    | A programming language known for its simplicity.                                                                                                                                                               | Infrastructure as Code (IaC) Video |
| <b>Sandboxes</b>                               | Sandboxes are isolated environments that allow users to safely test and experiment with software, applications, or code without affecting the production or main system.                                       | What Is CI/CD? Video               |
| <b>Source code management</b>                  | A software tool or system that facilitates the management and tracking of changes made to source code files.                                                                                                   | Platform and Tools Video           |
| <b>Testing branches</b>                        | Separate branches created specifically for testing purposes.                                                                                                                                                   | What Is CI/CD? Video               |
| <b>Travis CI</b>                               | A hosted continuous integration service used to build and test software projects hosted on GitHub, Bitbucket, GitLab, Perforce, Apache Subversion and Assembla.                                                | Platform and Tools Video           |
| <b>YAML</b>                                    | YAML stands for Yet Another Markup Language is a simple and expressive way to represent data structures and configurations in a plain-text format that is easy for both humans and machines to read and write. | Infrastructure as Code (IaC) Video |

## Author(s)

- Rajiv Mallikaarjun



# Skills Network