

Module 1 Glossary



**Skills
Network**

Estimated reading time: 4 minutes

| Term | Definition | Where the term is introduced |
|--|---|------------------------------------|
| Ansible | An open-source IaC tool that automates various IT tasks such as, configuration management, application deployment, and cloud provisioning. | Infrastructure as Code (IaC) Video |
| Build systems | Software tools that automate the process of compiling the source code and generate executable programs or other deliverables. | Platform and Tools Video |
| Circle CI | A CI/CD platform that enables the implementation of DevOps practices and supports Continuous Delivery. | Platform and Tools Video |
| Configuration Management Systems (CMSs) | 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 |
| Continuous Delivery | A software development practice that focuses on automating the release and deployment of integrated code. | What Is CI/CD? Video |
| Continuous Integration | A software development practice that involves regular integration of code changes from multiple developers into the master repository. | What Is CI/CD? Video |
| Declarative Approach | 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 |
| DevOps | Developer Operations is a methodology that combines software development and IT operations to improve collaboration, efficiency, and code quality. | Infrastructure as Code (IaC) Video |
| DevOps Pipeline | 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 |
| GitHub and Bitbucket | Both are web-based platforms used for version control and collaboration in software development projects. | Platform and Tools Video |
| Imperative Approach | 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 |
| Infrastructure as Code | An approach in which infrastructure configuration and management are automated using code. | Infrastructure as Code (IaC) Video |
| Jenkins | A popular CI/CD software installed on a server to facilitate centralized build processes. | Platform and Tools Video |
| Pull requests | Is a practice for reviewing and discussing code changes before merging them into the main branch. | What Is CI/CD? Video |
| Repositories | 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 |
| Ruby | A programming language known for its simplicity. | Infrastructure as Code (IaC) Video |

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|------------------------|--|------------------------------------|
| Sandboxes | 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 |
| Source code management | A software tool or system that facilitates the management and tracking of changes made to source code files. | Platform and Tools Video |
| Testing branches | Separate branches created specifically for testing purposes. | What Is CI/CD? Video |
| Travis CI | 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 |
| YAML | 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 |

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Changelog

| Date | Version | Changed by | Change Description |
|------------|---------|---------------|-------------------------|
| 2023-08-24 | 0.1 | Rachael Jones | Initial version created |

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