Module 1 Glossary

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
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

Author(s)

- Rajiv Mallikaarjun