

# Introduction to Jenkins

**Automate Your CI/CD with Jenkins: The  
Open-Source Automation Server**



Jenkins is an open-source automation server that simplifies the process of continuous integration and continuous delivery for software projects.

In this article/presentation, we'll give you a brief overview of Jenkins, including its key features and architecture, and how it can be used in a DevOps environment to accelerate software delivery.



# Key Features of Jenkins

- Jenkins has several key features that make it a popular choice for CI/CD.
- These include easy installation and configuration, extensibility through plugins, integration with various version control systems, flexible and customizable build pipelines, support for multiple build agents, and a robust ecosystem of community plugins and integrations.



# Jenkins Architecture

- Jenkins has a master-slave architecture, where the master is responsible for managing and scheduling build jobs, and the slaves are responsible for executing those jobs.
- The slaves can be physical or virtual machines that are connected to the master through the Jenkins network.



# Jenkins Plugins

- Jenkins has a vast library of plugins that extend its functionality and enable users to customize their build pipelines to suit their specific needs.
- There are plugins available for various tasks, such as source code management, build tools, testing frameworks, and deployment tools.



# Jenkins Pipeline

- Jenkins Pipeline is a powerful feature that allows users to define their build pipelines as code using a domain-specific language (DSL).
- This enables users to create complex, multi-stage pipelines that are version-controlled, maintainable, and easy to understand.



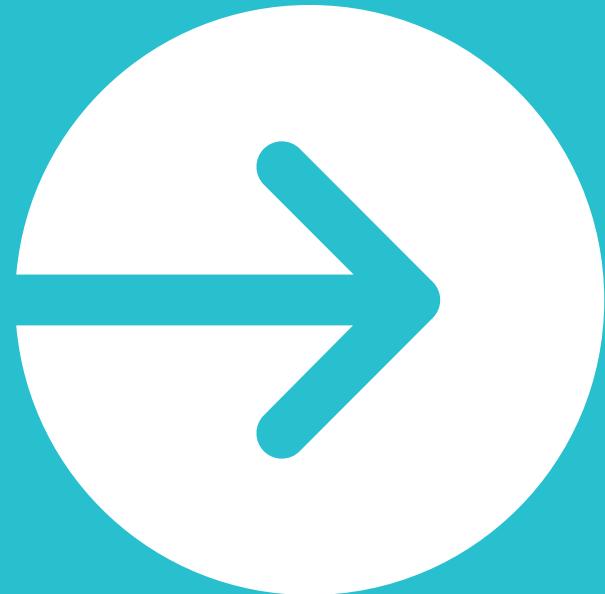
# Jenkins and DevOps

- Jenkins is a key tool in the DevOps toolkit, enabling teams to automate their CI/CD processes and accelerate software delivery.
- By integrating Jenkins with other DevOps tools and practices, such as containerization, configuration management, and monitoring, teams can achieve greater efficiency, agility, and collaboration.

**Jenkins is a versatile and powerful automation tool that provides a robust platform for building, testing, and deploying software applications. Its extensibility and flexibility make it an ideal choice for DevOps teams looking to automate their CI/CD processes and accelerate software delivery.**

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