### What\_is\_Jenkins

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### **What is Jenkins?**

Jenkins is an open-source automation server used to automate parts of software development like building, testing, and deploying applications. It helps developers integrate code changes continuously and deliver software faster.

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#### **Why Do We Need CI/CD?**

* Continuous Integration (CI): Automatically merges code changes into a shared repository multiple times a day.
* Continuous Delivery (CD): Automates the delivery of code to testing and production environments.

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**Benefits:**

* Faster Development Cycles
* Early Detection of Bugs
* Improved Code Quality
* Automated Testing & Deployment