



Jenkins

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1. Overview of Jenkins

- What is Jenkins?
- Continuous Integration
- Jenkins Key Metrics
- Advantages of Jenkins





What is Jenkins?



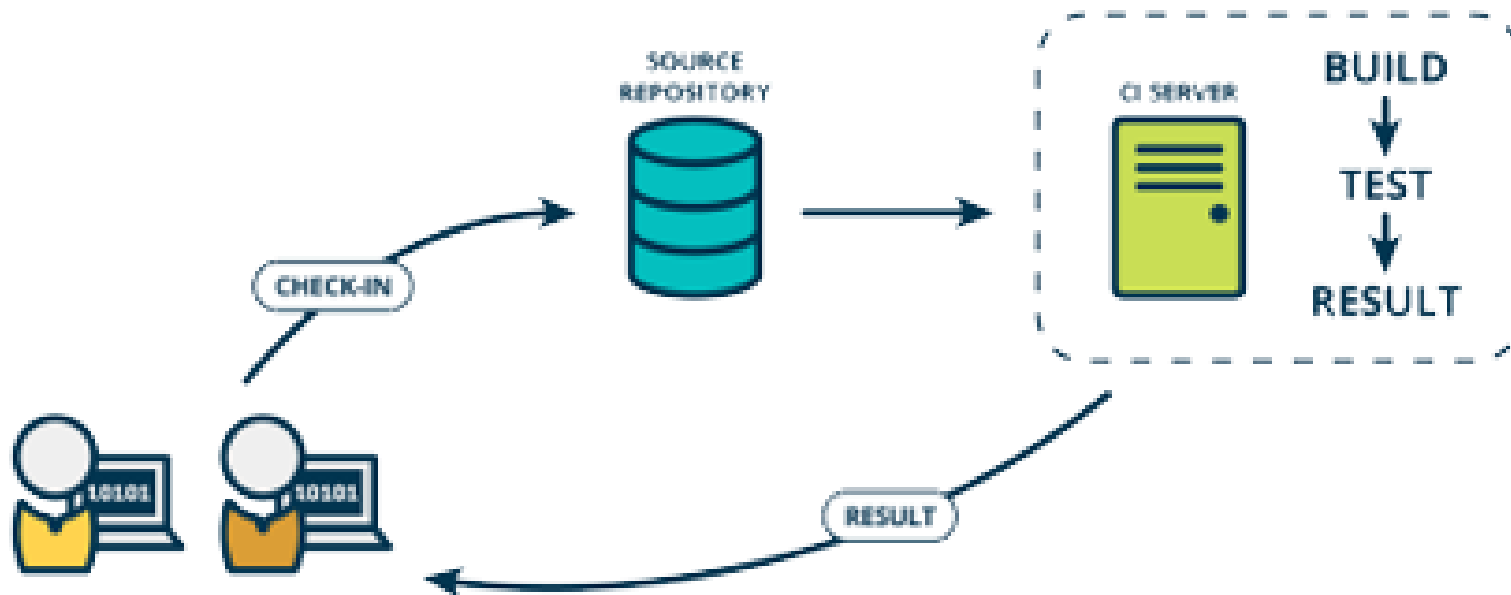
- An open source automation tool
- Written in **Java** with plugins built for **Continuous Integration (CI)**
- Use to build & test the software projects continuously
- Makes easier for developer to integrate the changes in the project, & for user to obtain a fresh build
- **Continuous Delivery (CD)** with a large number of testing & deployment technologies





Continuous Integration

- Process of automating the build & testing of code when developer commits a changes to version control



CI Process



Jenkins Key Metrics

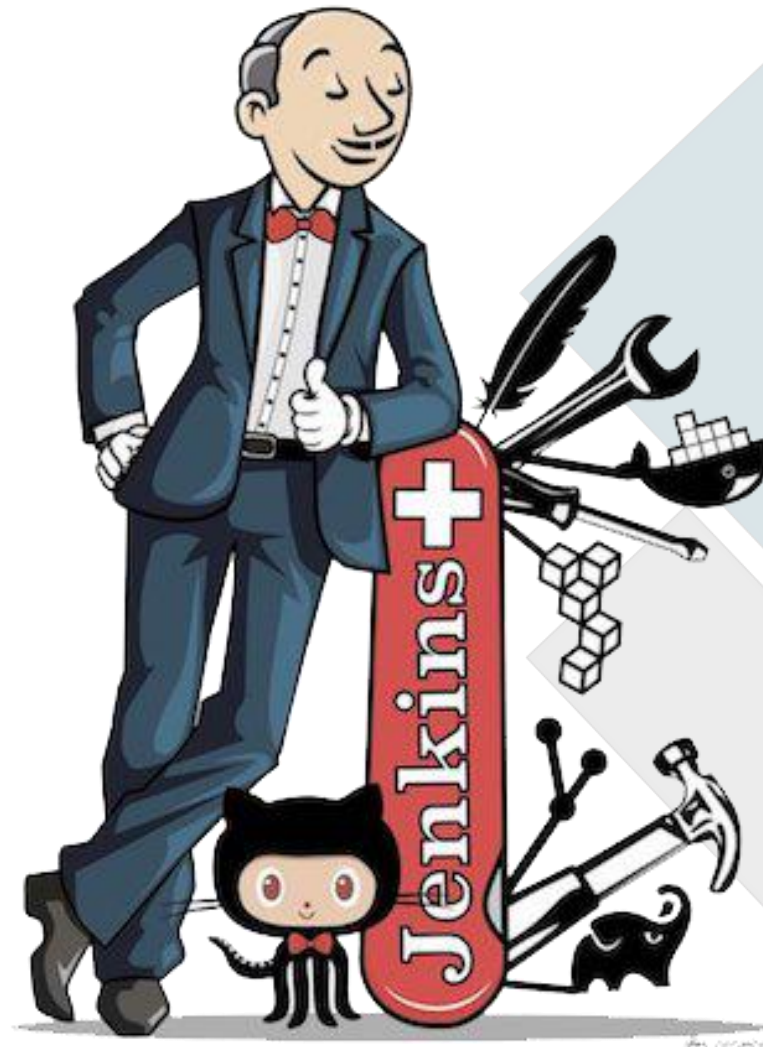


- **Adoption**

- Widespread with more than 150K active installations
- Over 1 million users around the world

- **Plugins**

- Interconnected with well over 1,400 plugins
- Allows to integrate with most of the development, testing and deployment tools

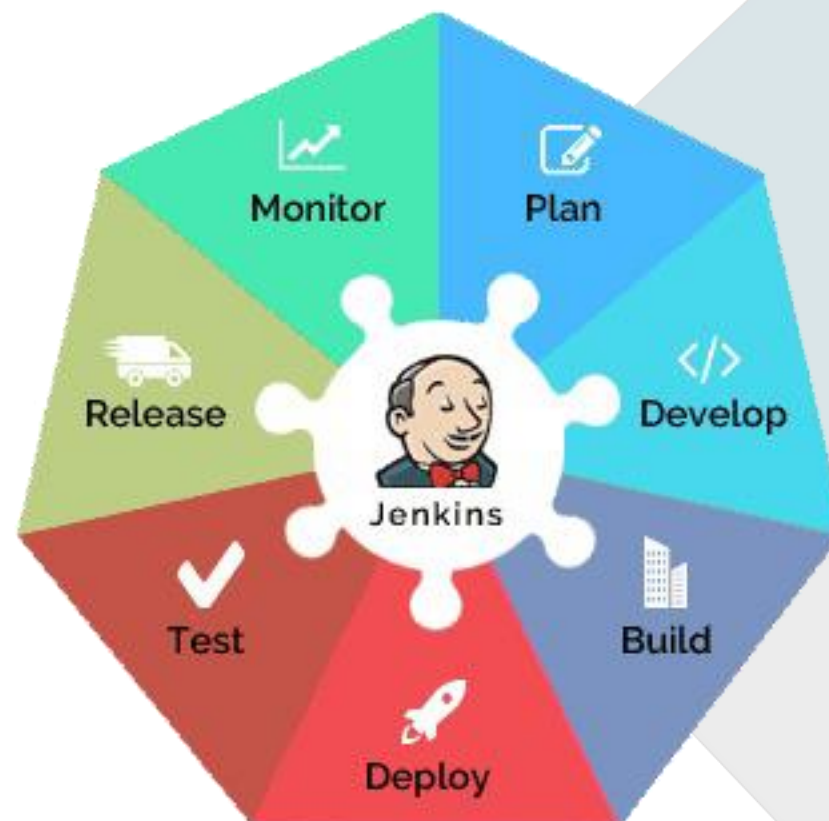




Continuous Integration with Jenkins



- Developer commits a code to repo
- Jenkins server checks the repo at regular interval
- When changes detected, it starts a new build
- If successful, it deploys in the test server
else if fails then notifies the team
- Configure the pipeline with several steps:
 - Prepare, Test, Package, Publish, Deploy
- Generates a feedback, if artifact is valid
- Notifies about the build & test results
- Continues to check the source code repo
- Repeat functional test





Advantages

- Open source
- User-friendly
- Free of cost
- Easily configurable
- Platform Independent
- Rich Plugin ecosystem
- Easy support
- Saves time on large-scale integrations
- Updated Software state
- Automated Integration

