

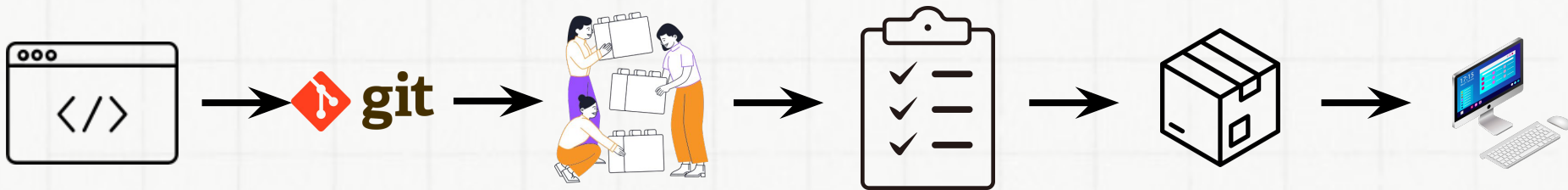
# Introduction

- Jenkins is an open-source automation server that enables developers to build, test, and deploy code continuously.
- One of the most widely used automation tools for CI and CD.



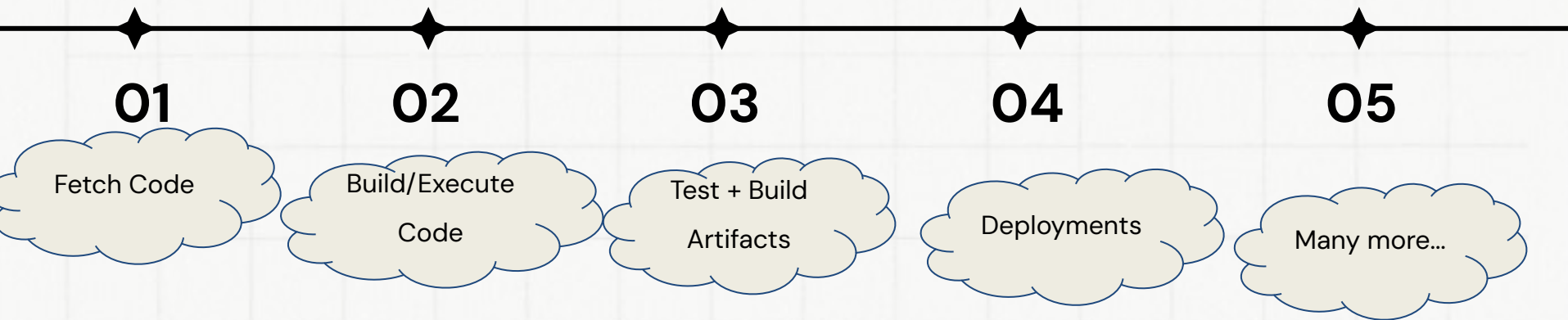
# Automation

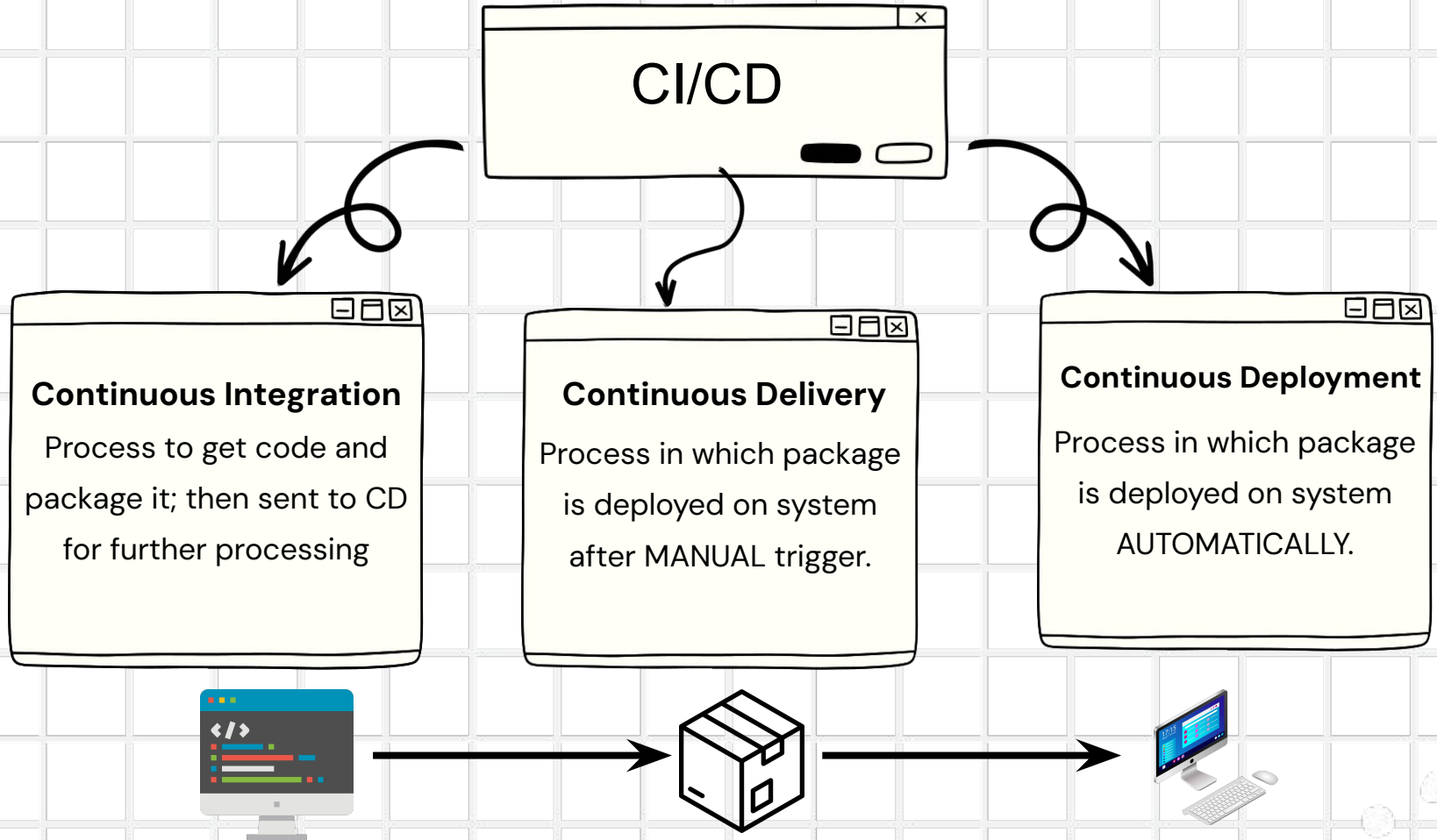
- Process of using tools and technologies to perform tasks automatically, without manual intervention

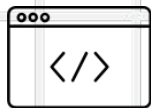


# Jenkins process

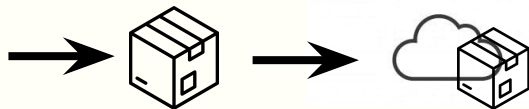
- Jenkins plays a crucial role in DevOps by automating continuous integration and continuous delivery (CI/CD) processes







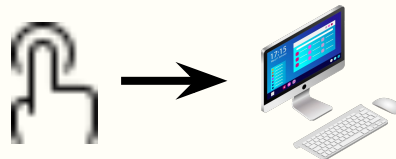
Continuous Integration



Continuous Deployment



Continuous Delivery



# Need

## Challenges Jenkins Solves / Benefits



Slower  
and  
Manual Builds

Inefficient releases  
and  
Inconsistent environment

Non-scalable  
And  
Limited Visibility



Automated  
and  
faster builds

Efficient  
and  
Faster Releases

Scalability  
and  
Extensibility

# WHY JENKINS

## BENEFITS

- Free / Enterprise Version
- Open-Source
- Plugins
- Easy and Portable

## ALTERNATIVES

- Github Actions
- Gitlab CI/CD
- Codebuild
- TravisCI

