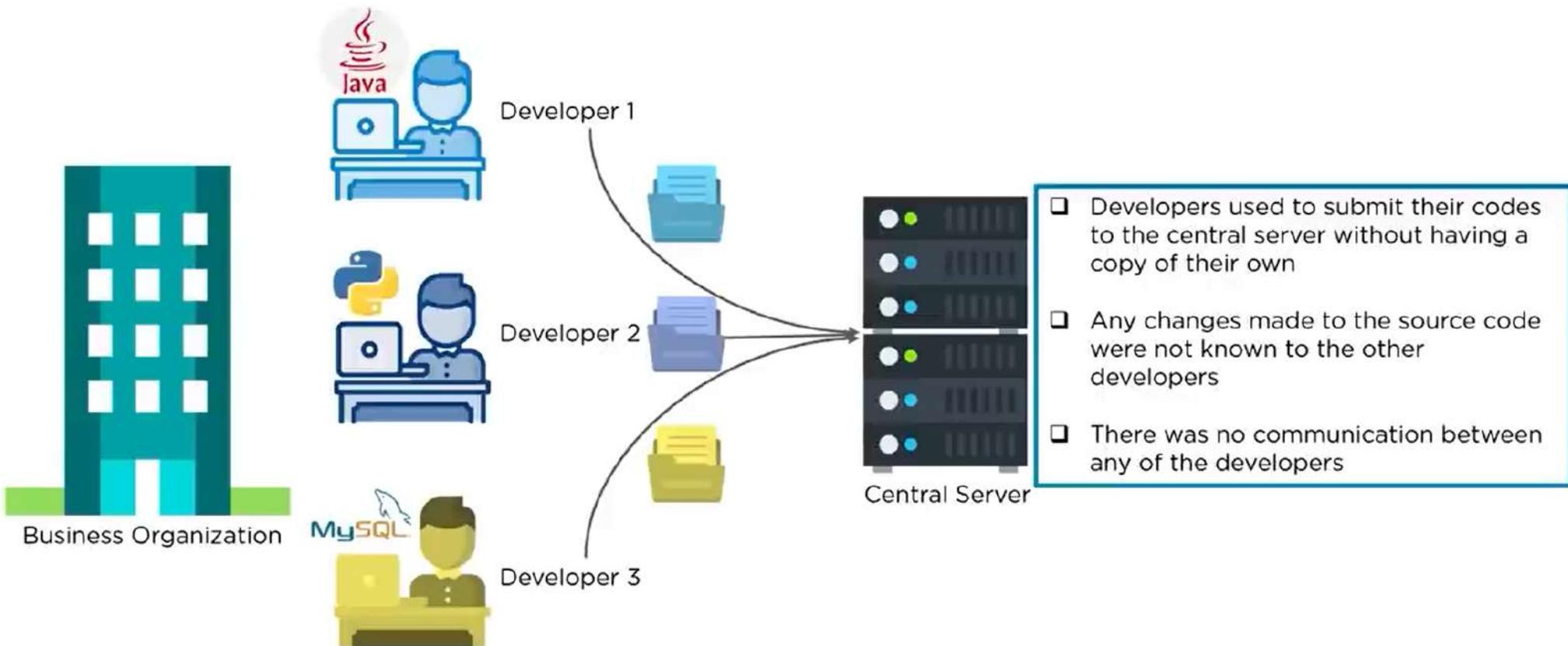


## What's in it for you?

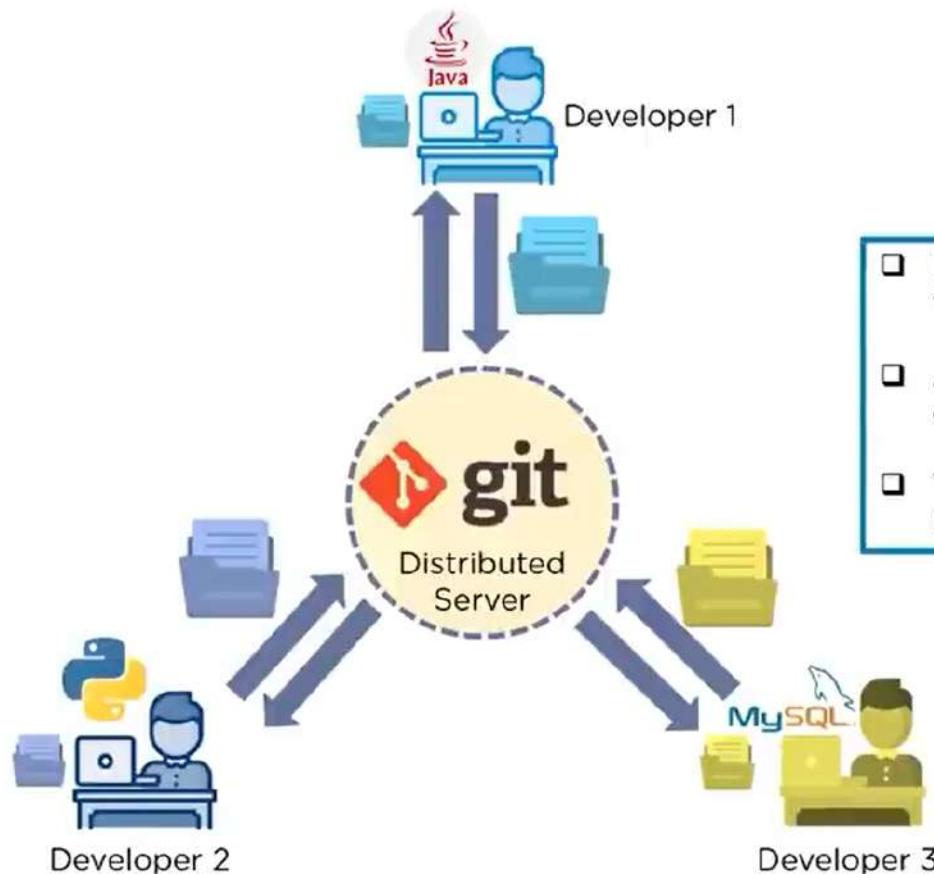
- **Git Basics**
- **Installing Git**
- **GitHub**
- **Git vs GitHub**
- **Git Commands**
- **Git Merge Conflict**
- **Git Interview Questions**



## Scenario before Git



## Scenario after Git



- Every developer has an entire copy of the code on their local systems
- Any change made to the source code can be tracked by others
- There is regular communication between the developers

# What's in it for you?

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What is DevOps?

Tools in DevOps

Version Control System

Centralized Vs Distributed  
Version Control System

What is Git?

Features of Git

Workflow of Git

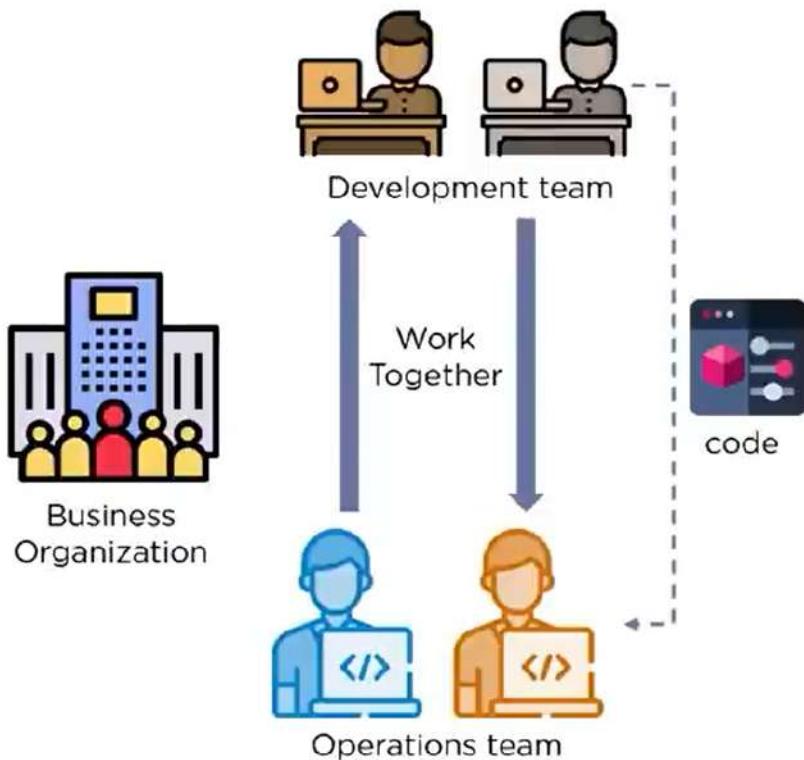
Branch in Git

Commands in Git

Demo on Git

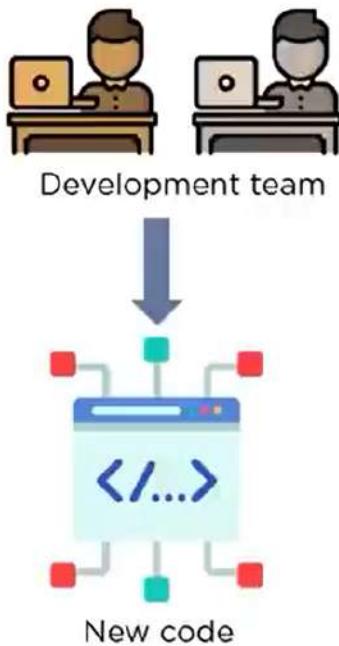


# What is DevOps?



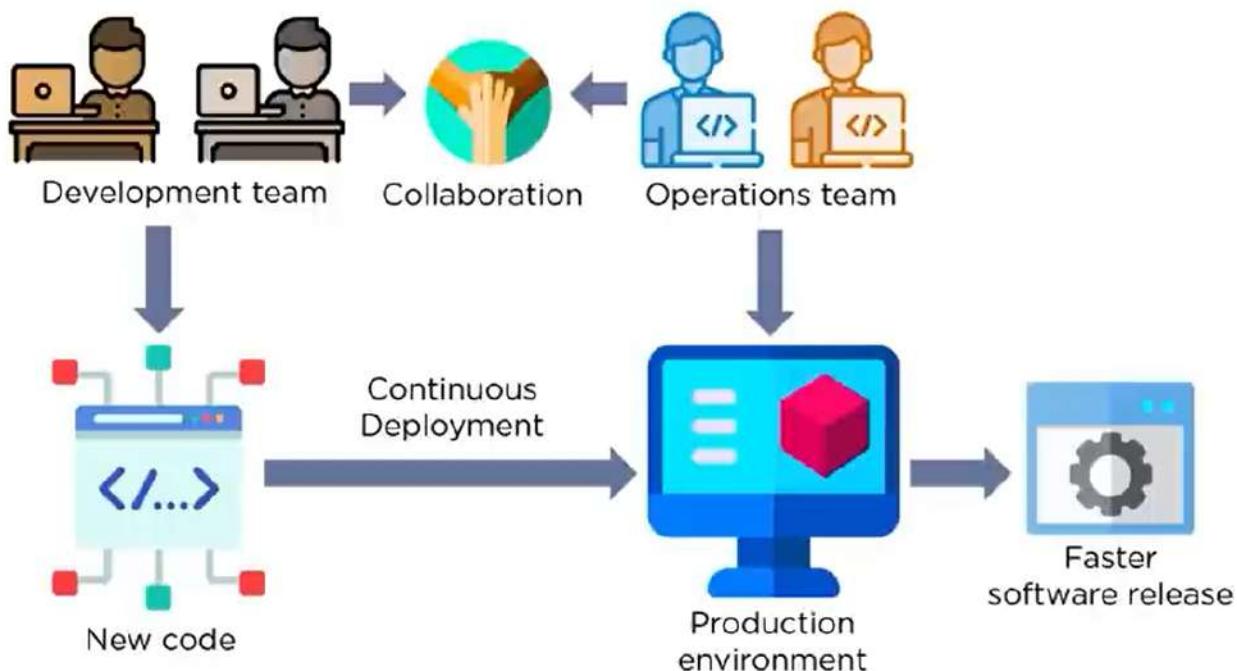
- DevOps is a culture that allows Development and Operations team to work together

# What is DevOps?



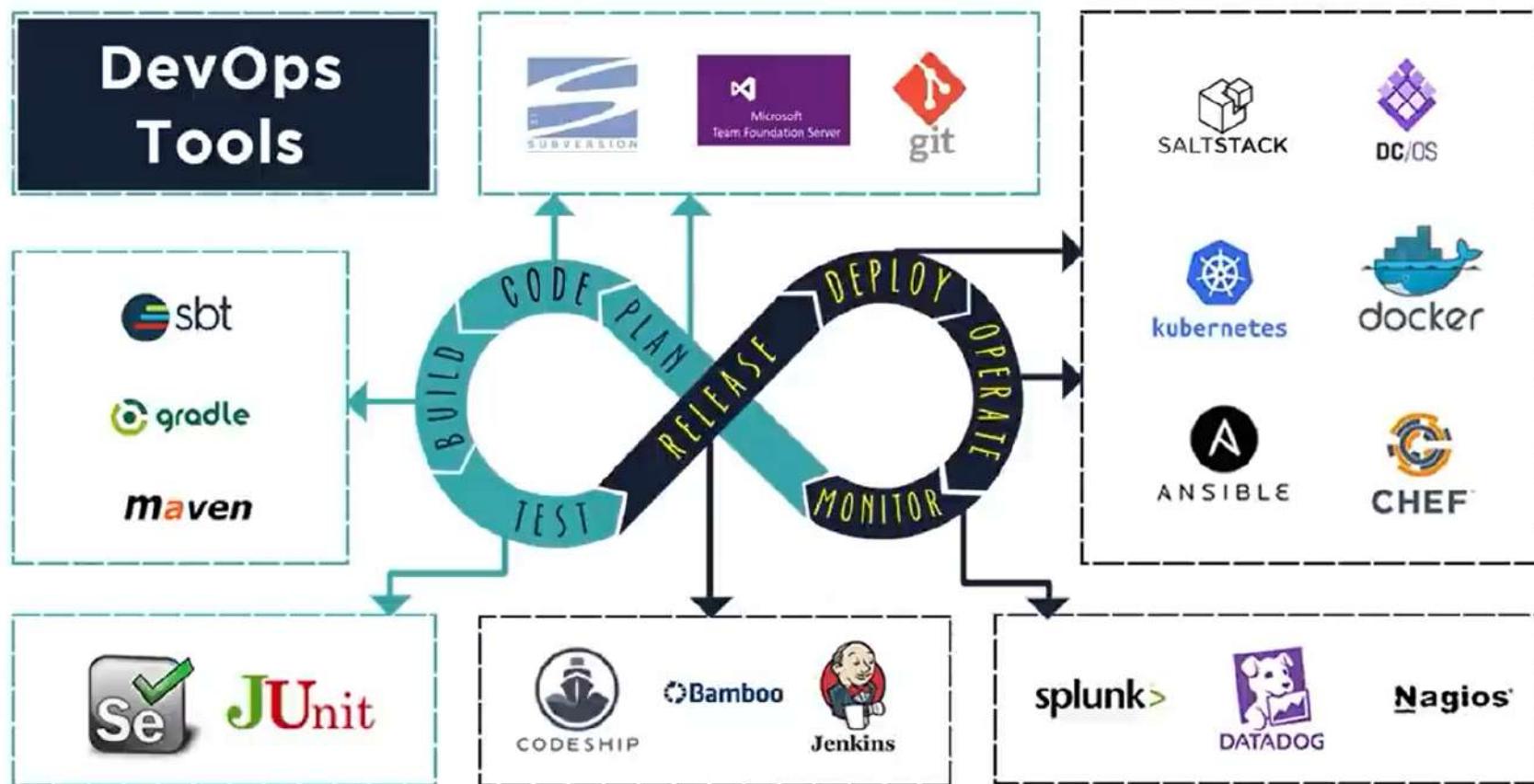
- DevOps is a culture that allows Development and Operations team to work together
- Developers continuously develop and test codes

# What is DevOps?



- DevOps is a culture that allows Development and Operations team to work together
- Developers continuously develop and test codes
- There is continuous integration taking place throughout the lifecycle
- Operations team continuously deploy the codes to the production environment
- Allows better collaboration, increased trust and faster software releases

# Tools is DevOps



# Source Code Management Tools

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- SVN is a centralized version control system
- It is distributed under the open source license
- It allows you to recover older versions of your data or examine how your data changes

## Source Code Management Tools



TFS is a centralized source control tool like SVN

It is distributed under the Trailware license

TFS is an application lifecycle management solution that does issue tracking and document management

# Source Code Management Tools

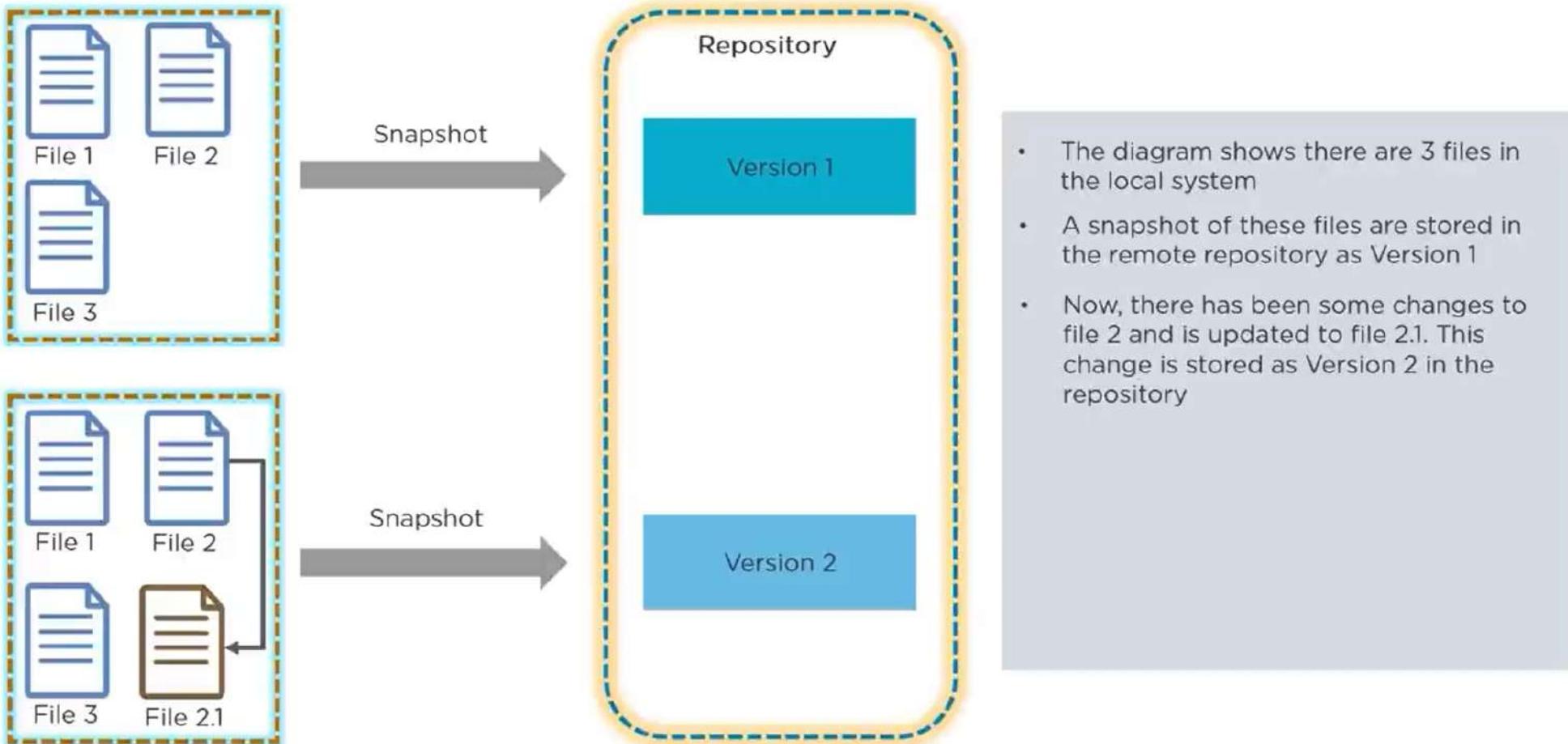


Git is a distributed version control tool

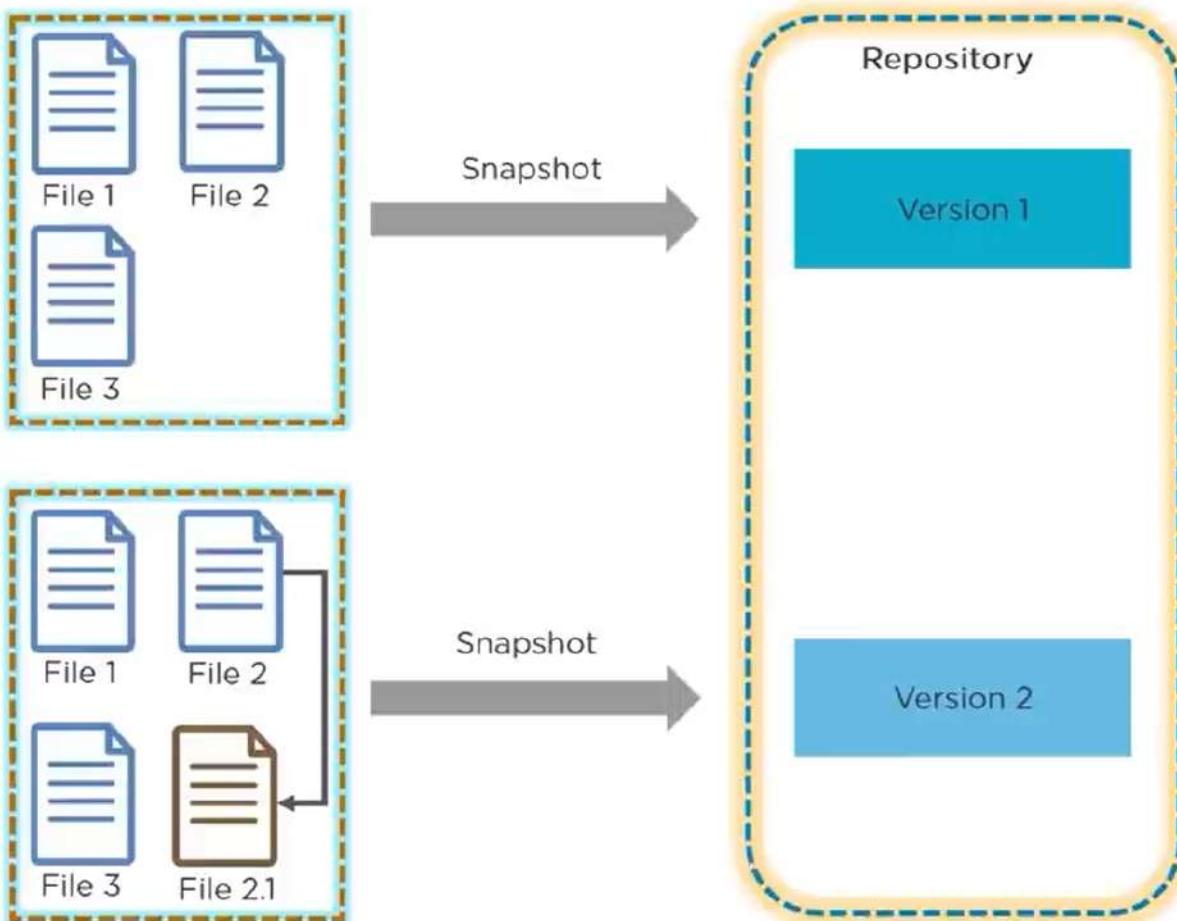
It is distributed under the GNU license

Git is used for maintaining historical  
and current versions of source code,  
web pages, etc

# Version Control System (VCS)

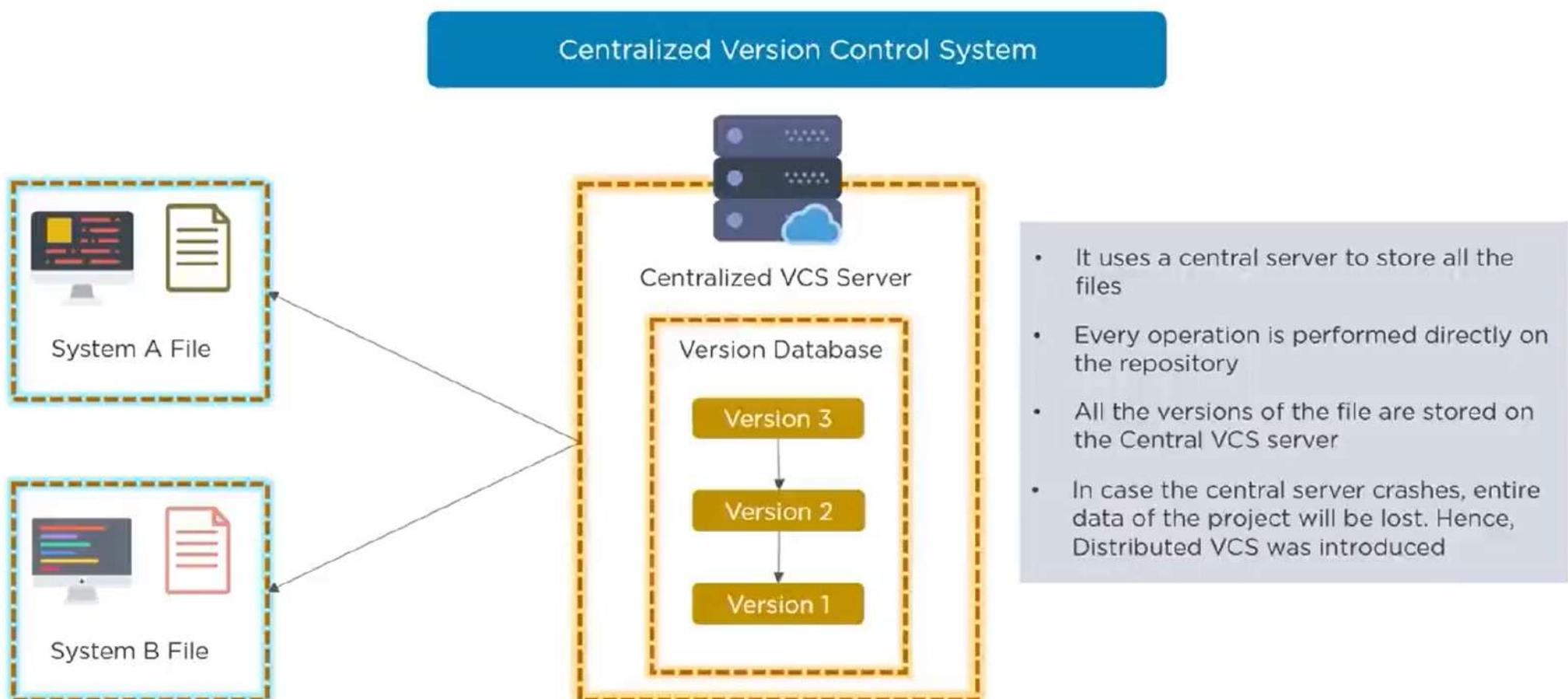


# Version Control System (VCS)

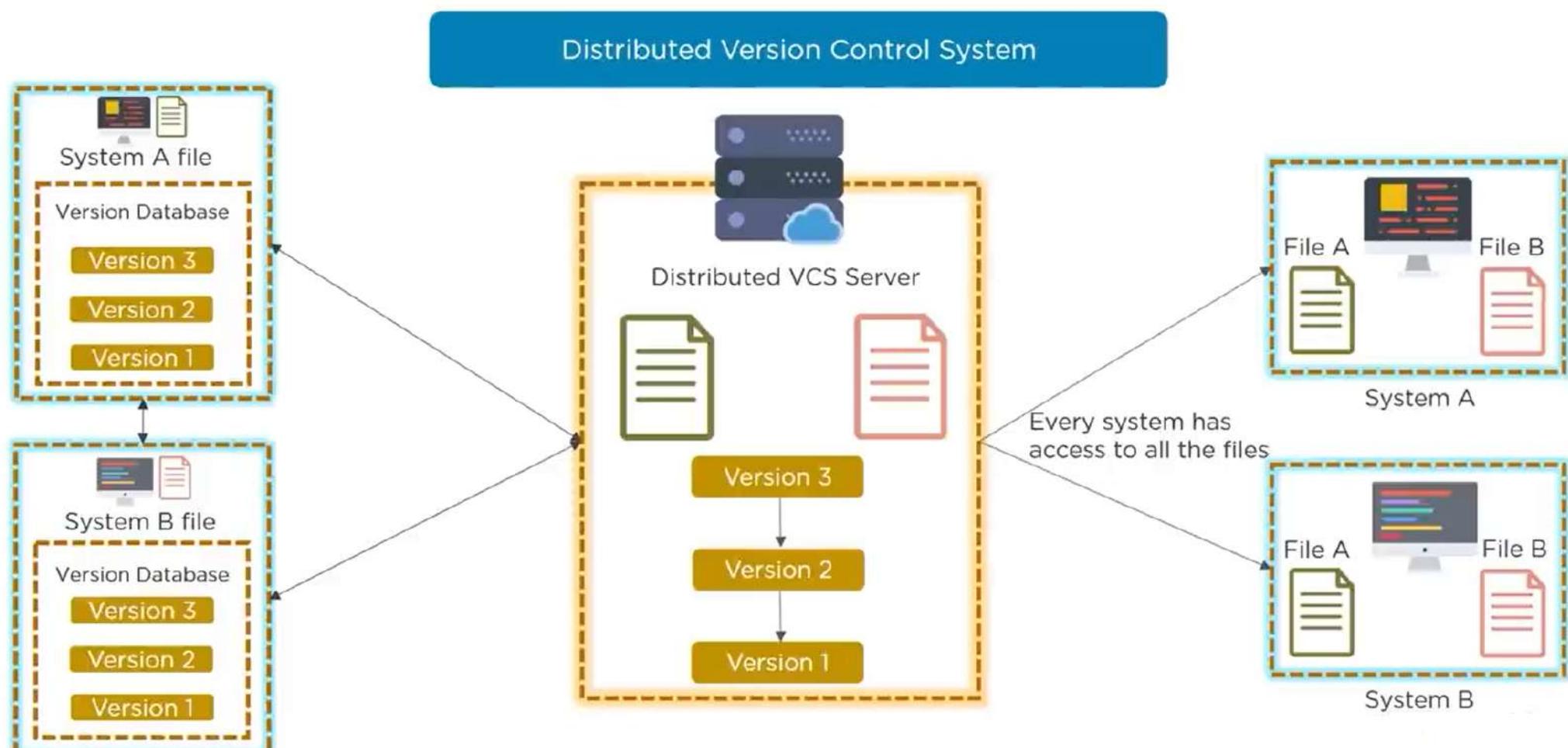


- The diagram shows there are 3 files in the local system
- A snapshot of these files are stored in the remote repository as Version 1
- Now, there has been some changes to file 2 and is updated to file 2.1. This change is stored as Version 2 in the repository
- VCS allows you to track the history of a collection of files
- Each version captures a snapshot of the files at a certain point in time and the VCS allows you to switch between these versions

# Centralized Version Control System



# Distributed Version Control System



# Distributed Version Control System

