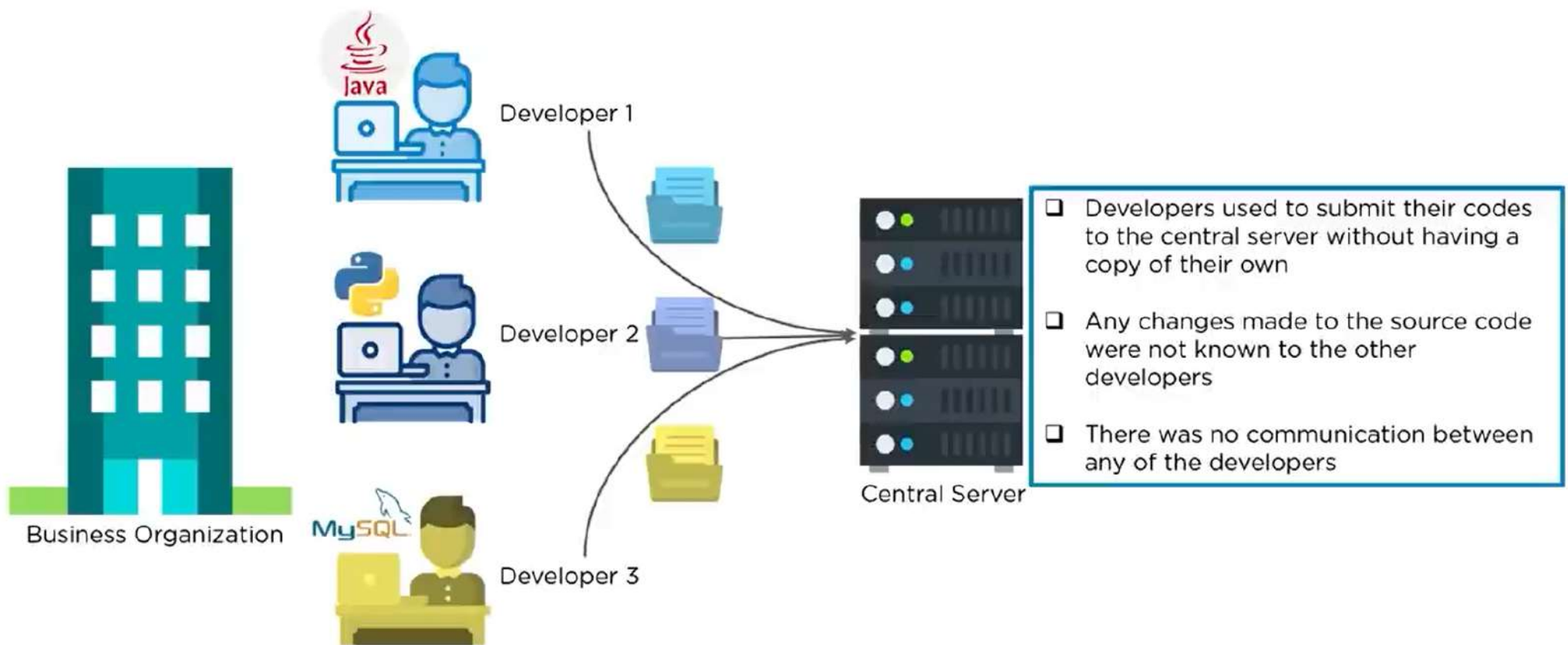


What's in it for you?

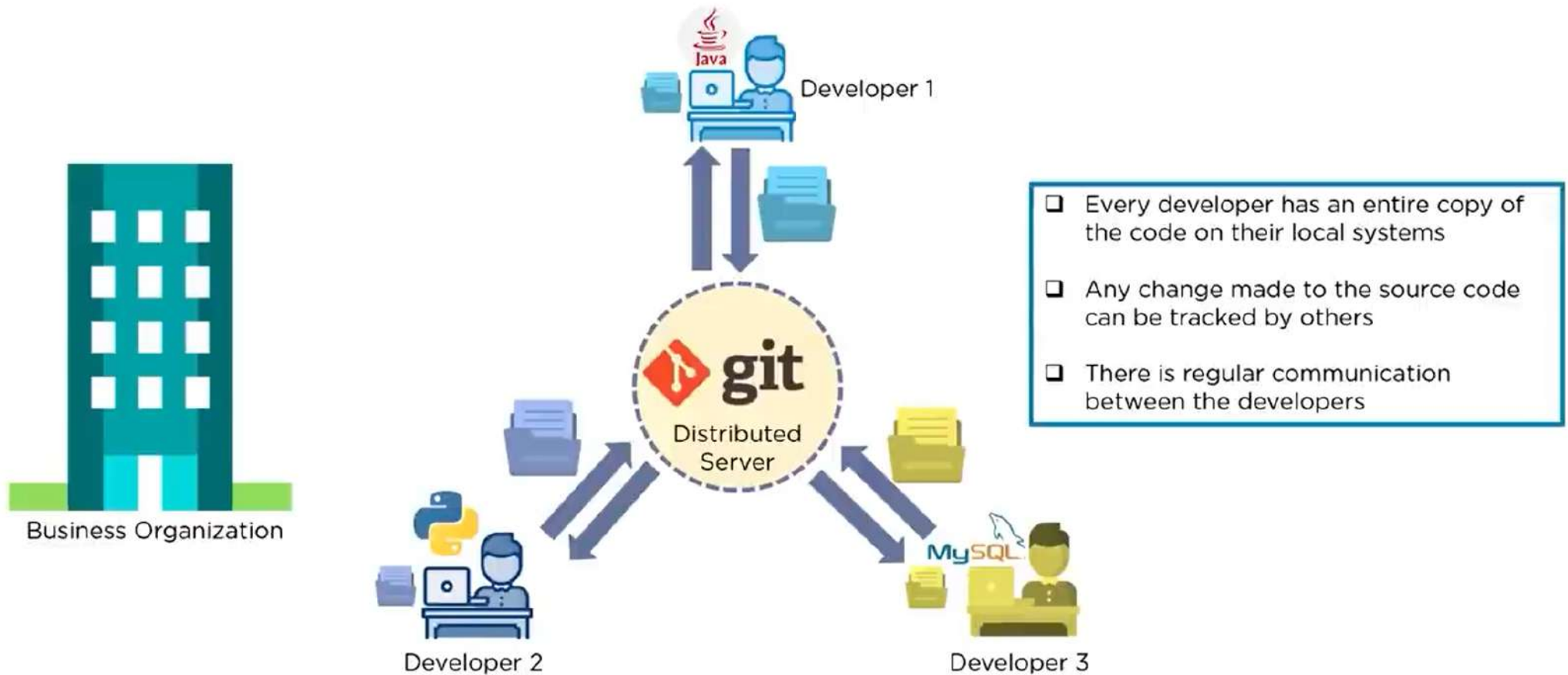
- **Git Basics**
- **Installing Git**
- **GitHub**
- **Git vs GitHub**
- **Git Commands**
- **Git Merge Conflict**
- **Git Interview Questions**



Scenario before Git



Scenario after Git



What's in it for you?

What is DevOps?

Tools in DevOps

Version Control System

Centralized Vs Distributed
Version Control System

What is Git?



Features of Git

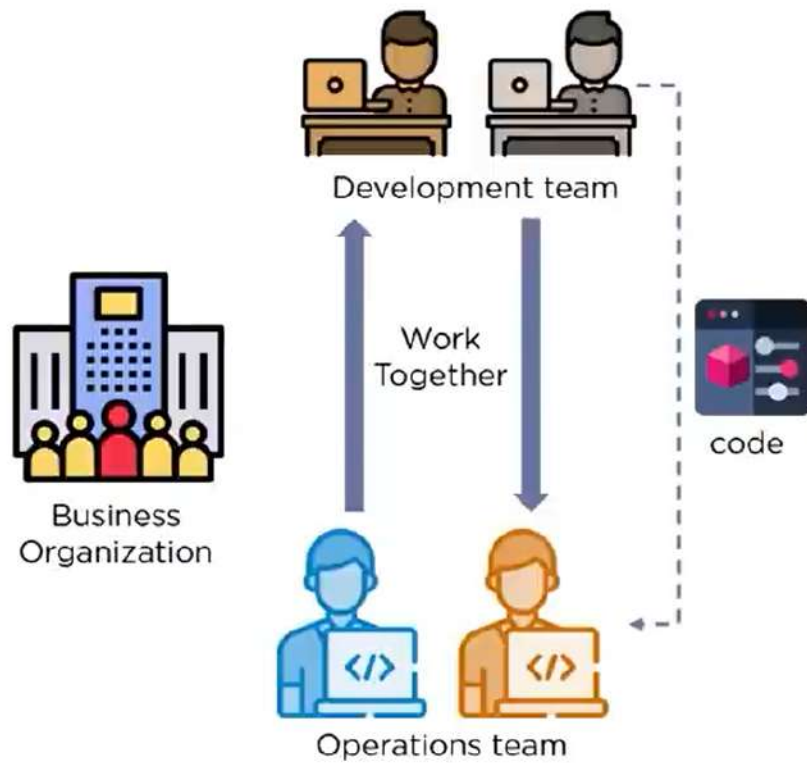
Workflow of Git

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?



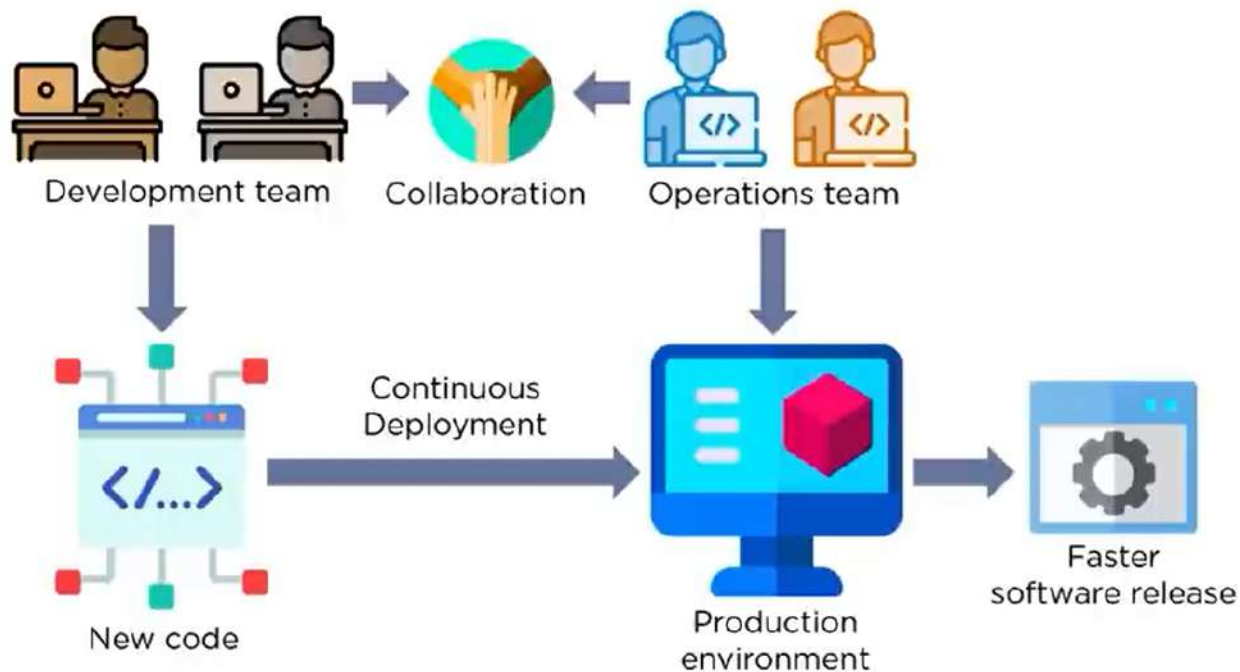
Development team



New code

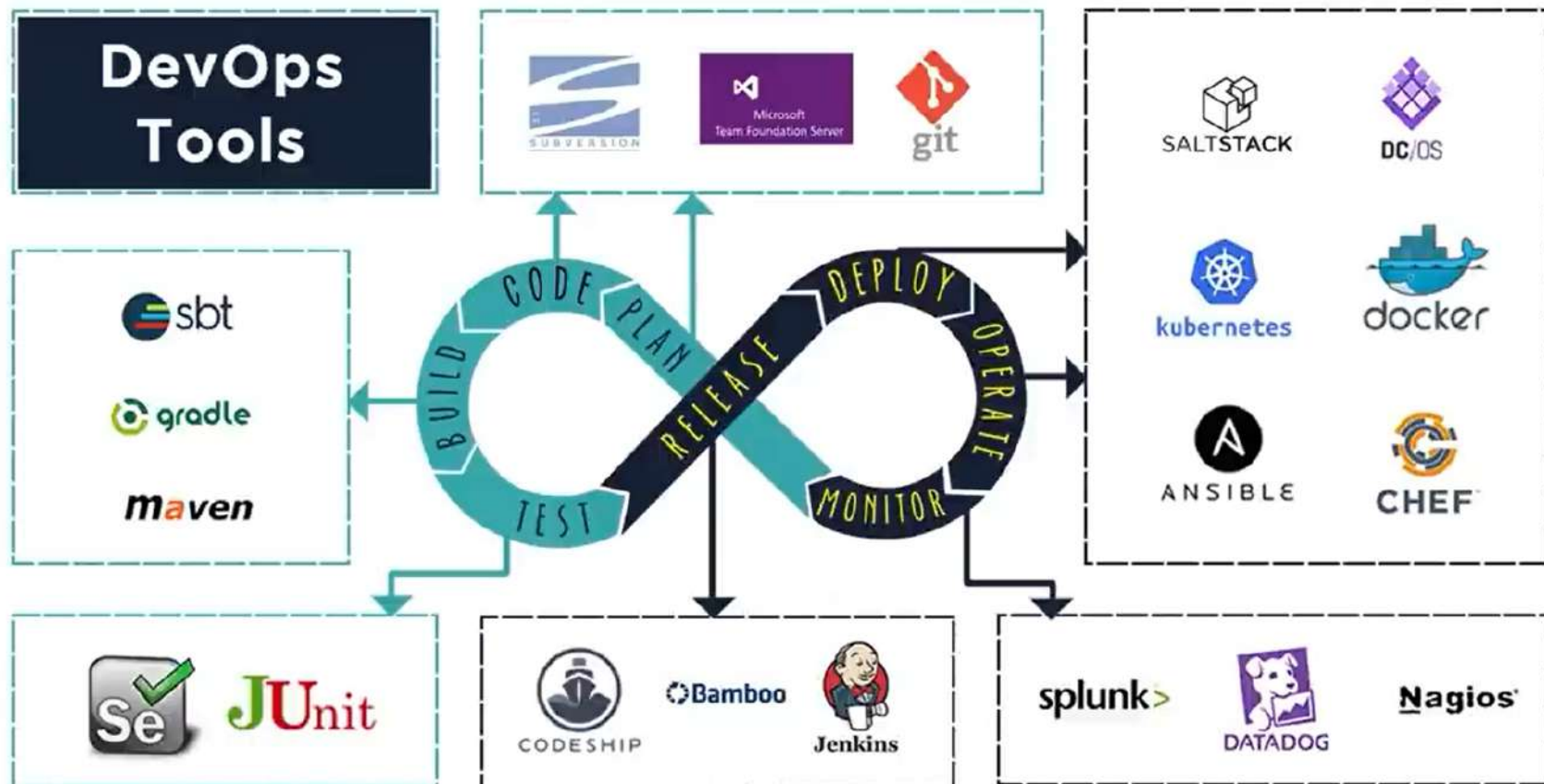
- DevOps is a culture that allows Development and Operations team to work together
- Developers continuously develop and test codes

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 through out 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



→ 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

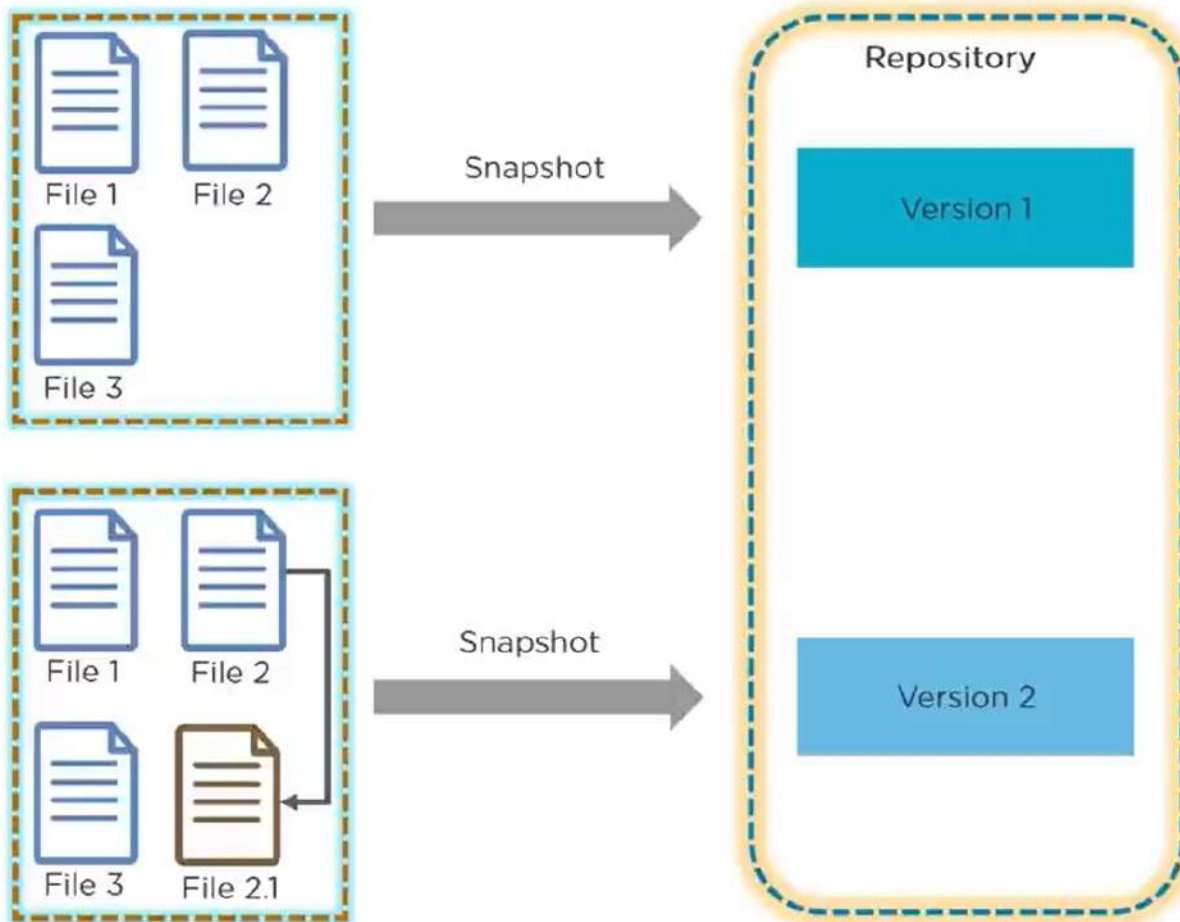


Git is a distributed version control tool

It is distributed under the GNU license

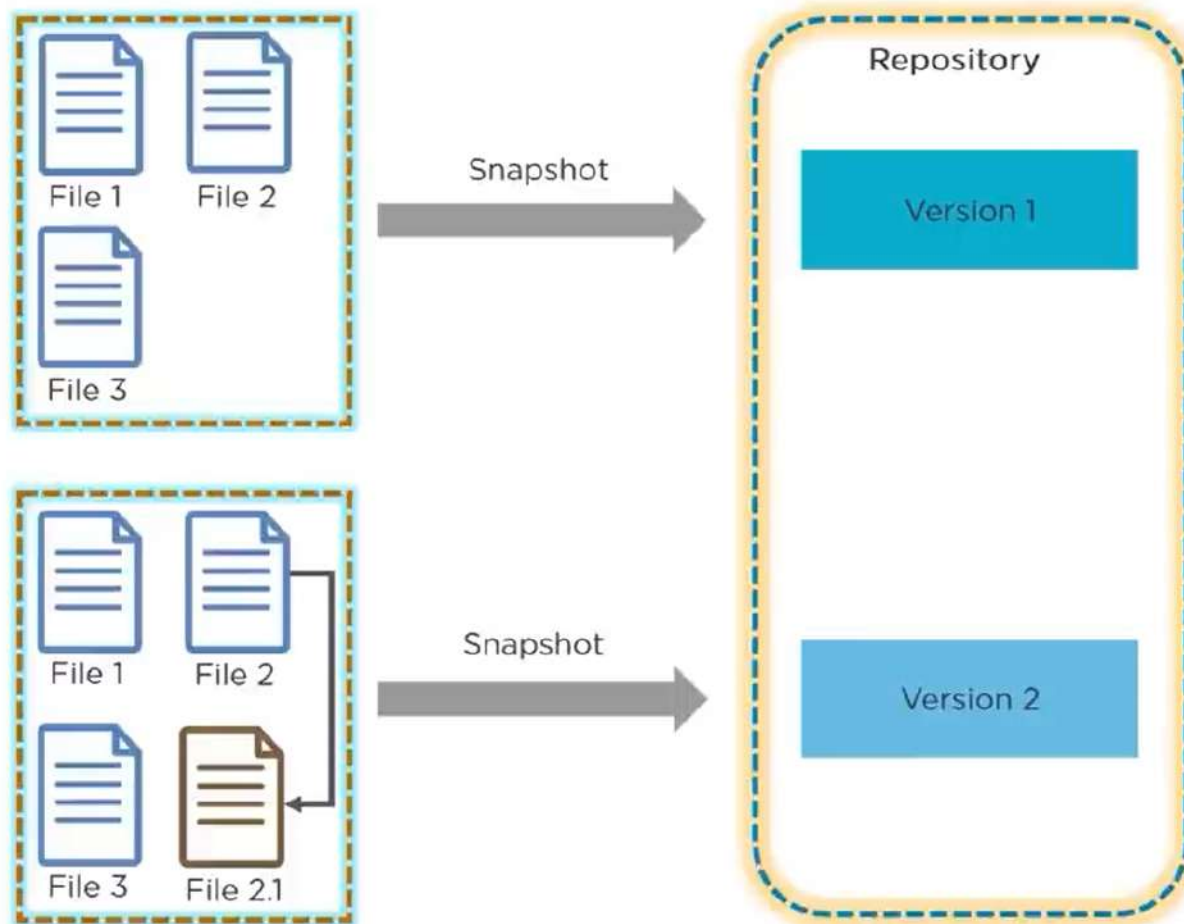
Git is used for maintaining historical and current versions of source code, web pages, etc

Version Control System (VCS)



- 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

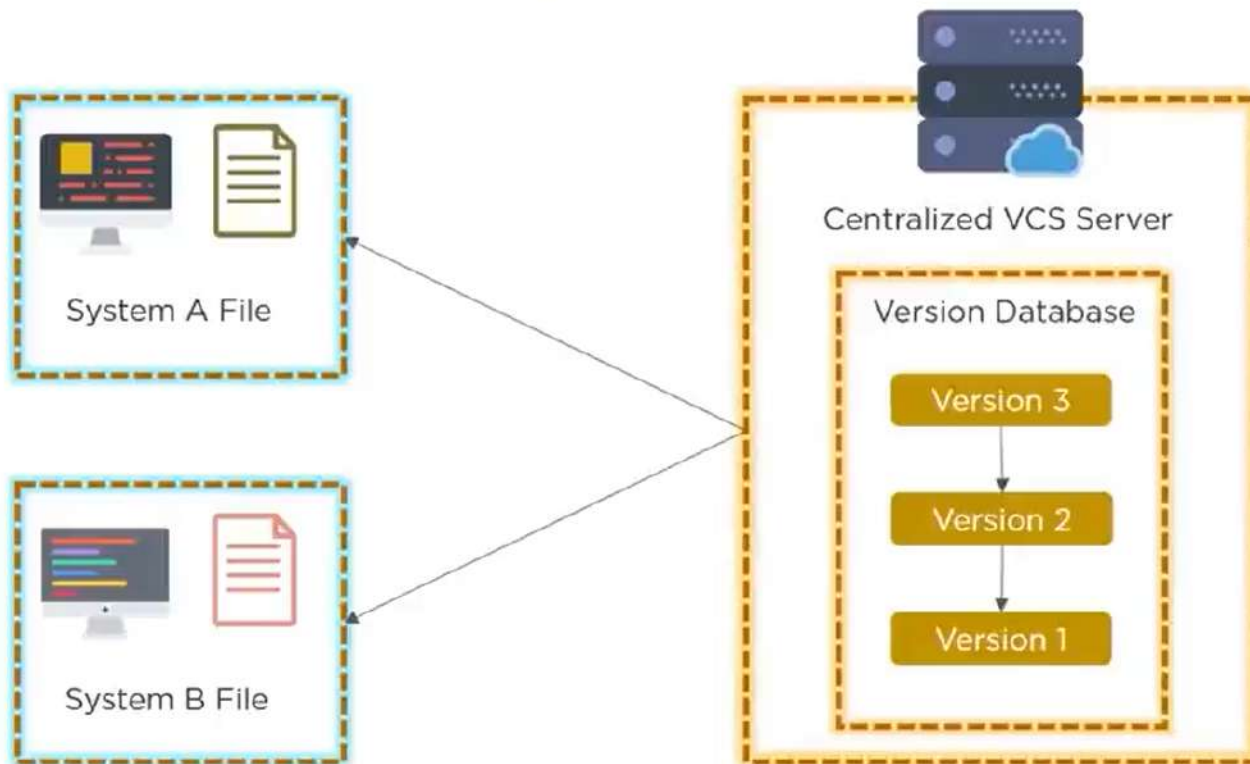
Version Control System (VCS)



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- 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

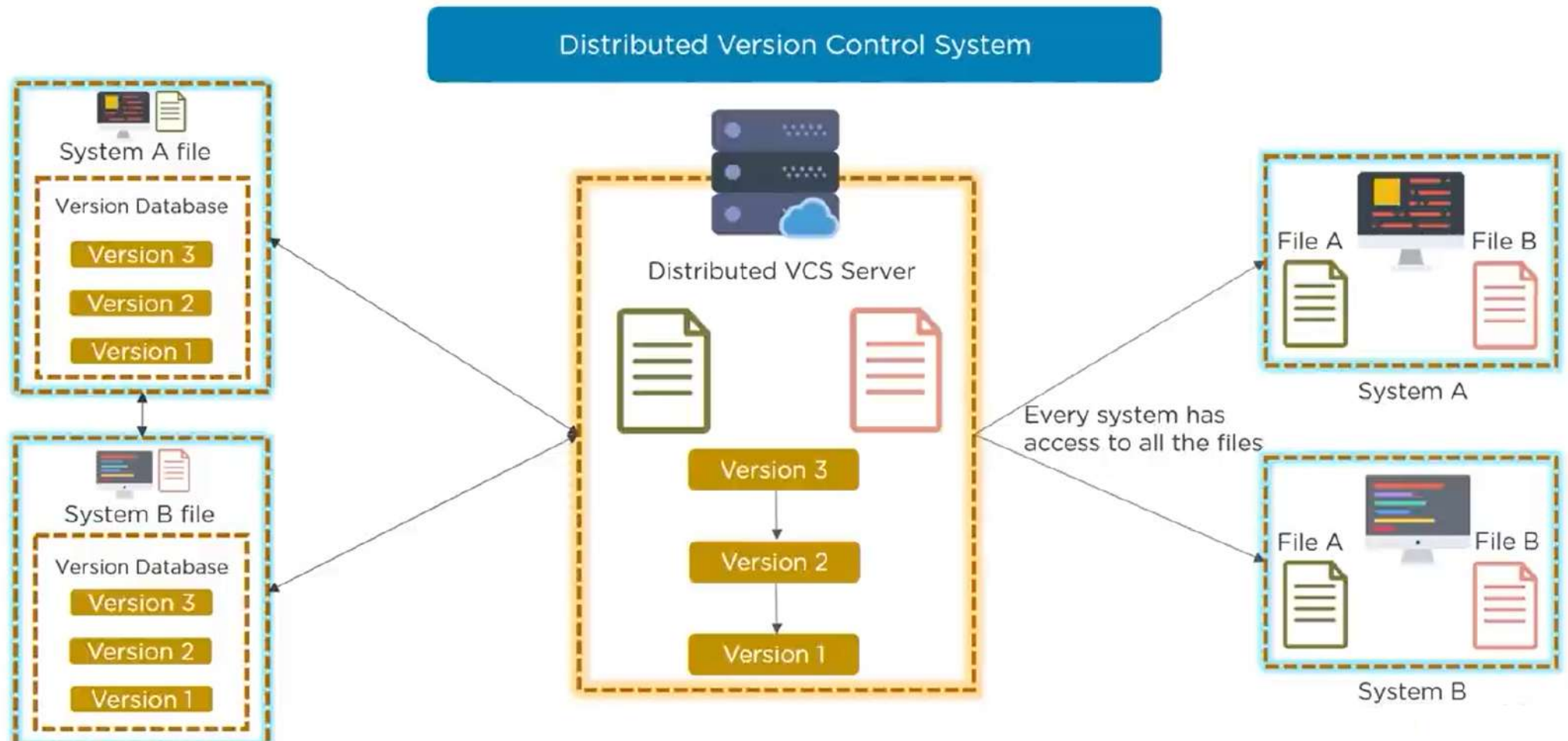
Centralized Version Control System

Centralized Version Control System



- It uses a central server to store all the files
- Every operation is performed directly on the repository
- All the versions of the file are stored on the Central VCS server
- In case the central server crashes, entire data of the project will be lost. Hence, Distributed VCS was introduced

Distributed Version Control System



Distributed Version Control System

