DevOps 101 WorkShop

Deployment Simplified...









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About me:

- Open Source Software Consultant
- Mozilla Reps Mentor
- Mozilla Reps Council
- Auth0 Ambassador
- EMS @Auth0 by Okta
- AWS Community Builder Container
- GDG Nashik Organizer
- AWS & GCP Cloud Solution Architect
- Podcast Host @TACOS (Talk About Community & Open Source)

Aim of the Game

Get up to Speed

Give Directions

Cover Fundamentals

Less Than 120 mins

Agenda



Git

What is Docker?

What is Terraform

What is Google Cloud Platform?

Demo

Q&A

Understanding Version Control

Tracking project's History

Disclaimer: version control isn't a backup

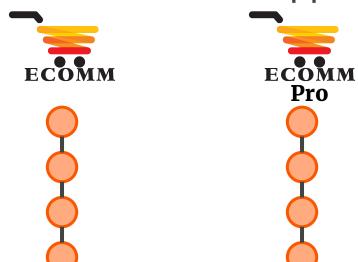
Managing Multiple version of a Project

The Ecomm App





The Ecomm App

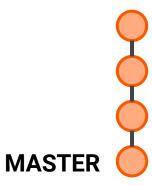


The Ecomm App **ECOMM** ECOMM Pro

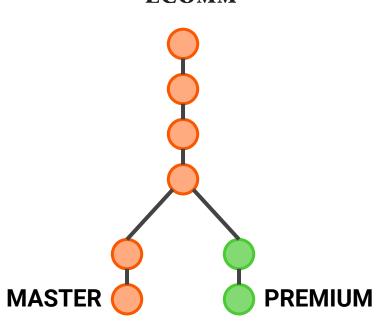
Branching



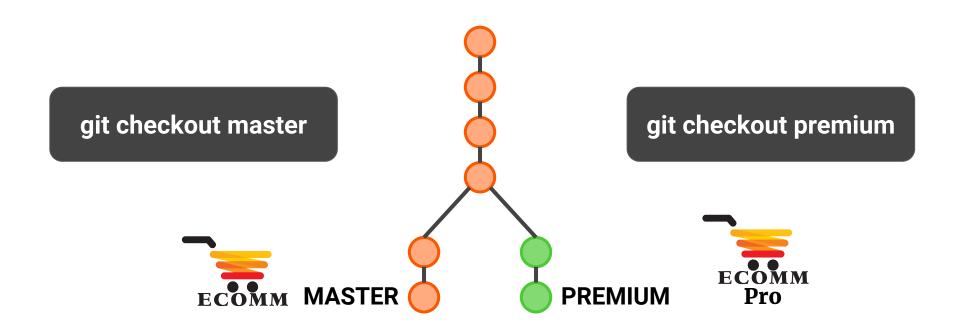
git branch premium

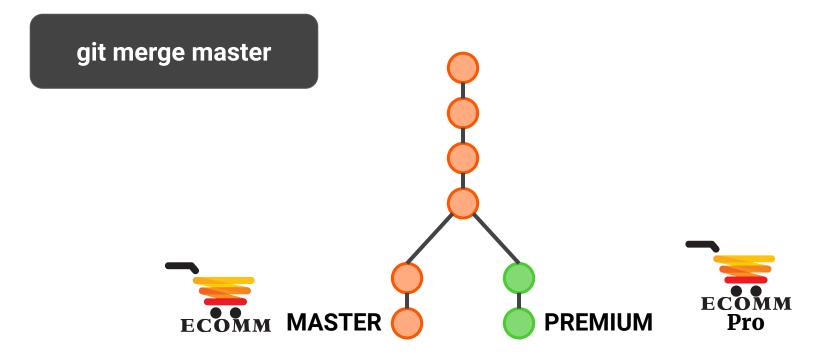


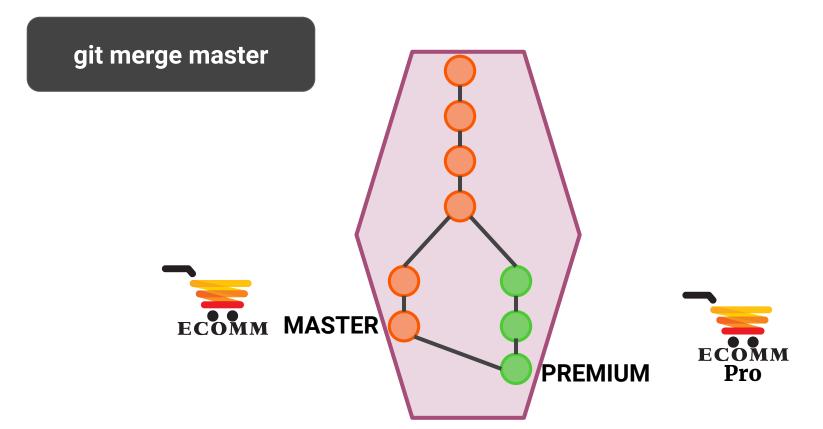
Branching ECOMM

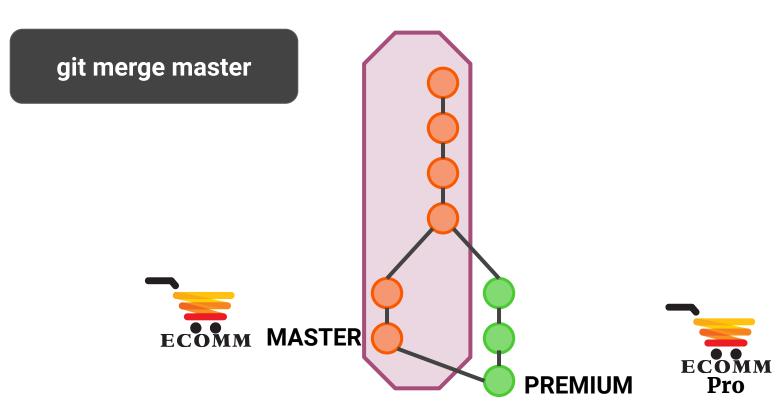


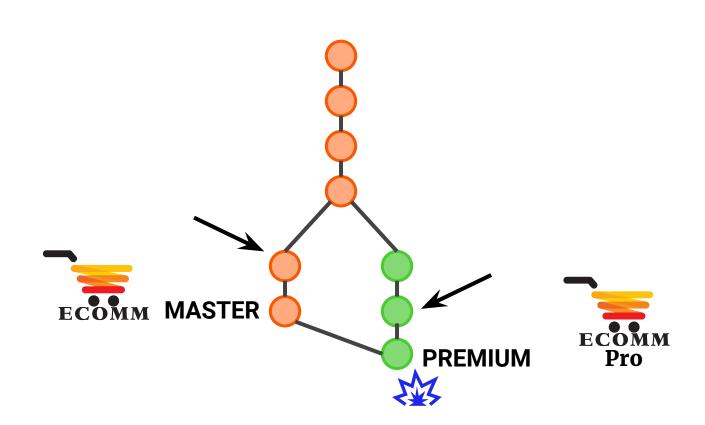
Branching











Version Control Is Useful To...

...manage multiple version of a project

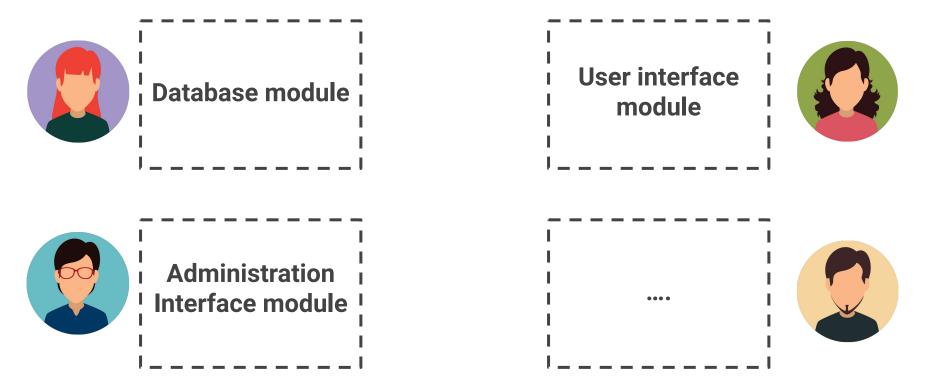
Sharing Code Amongst Developers

A project without Version Control

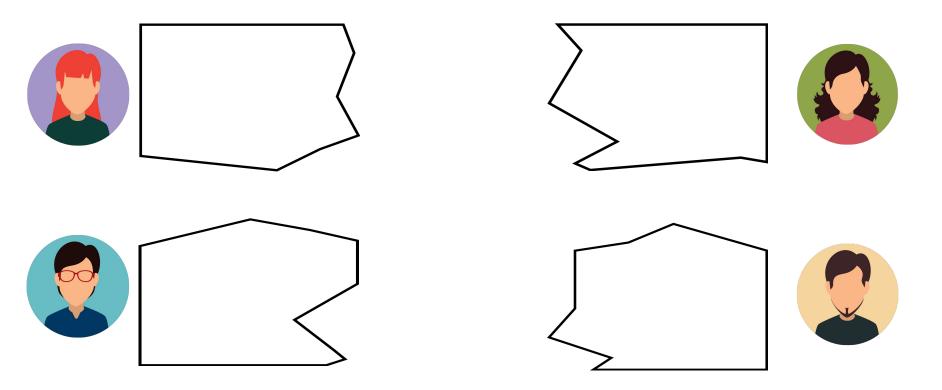
Inventory Management

Database module	User interface module
Administration Interface module	••••

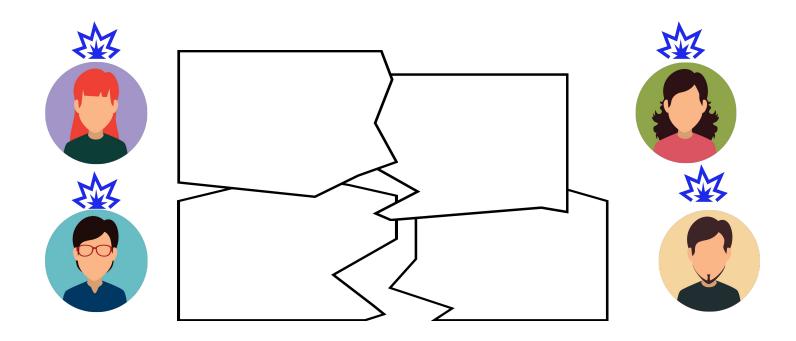
A project without Version Control



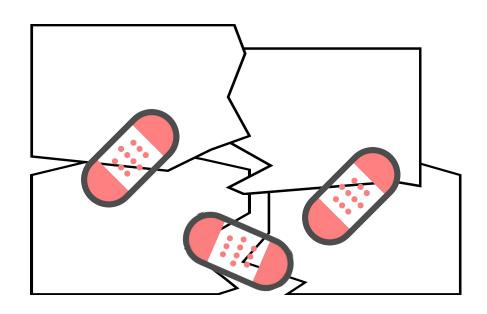
A project without Version Control



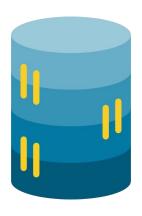
The Integration Phase



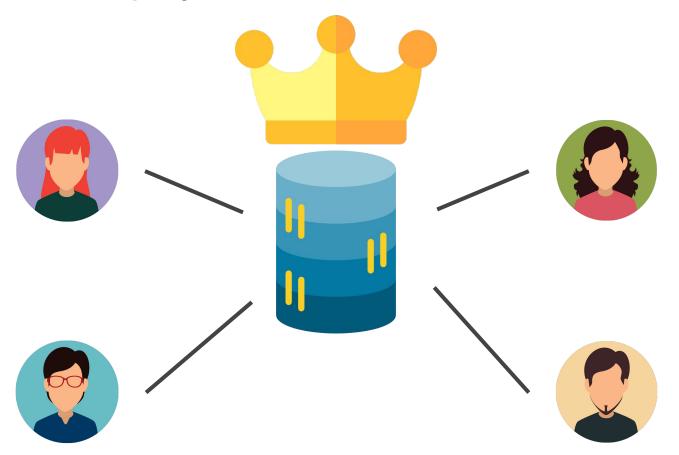
The Integration Phase



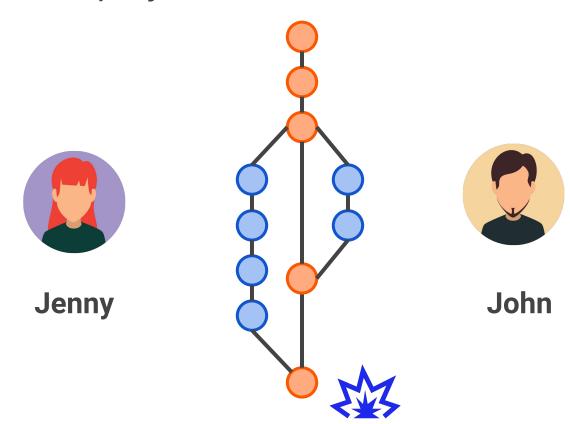
A project with Version Control



A project with Version Control



A project with Version Control



"If it hurts, do it more often."

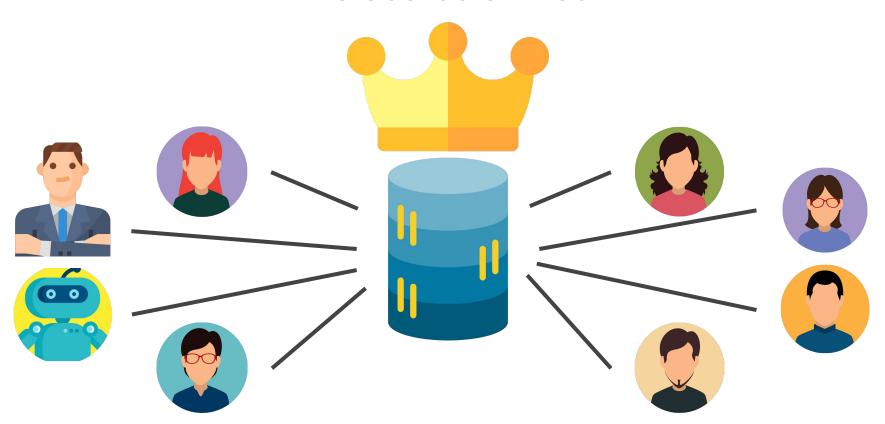
Martin Fowler

Version Control Is Useful To...

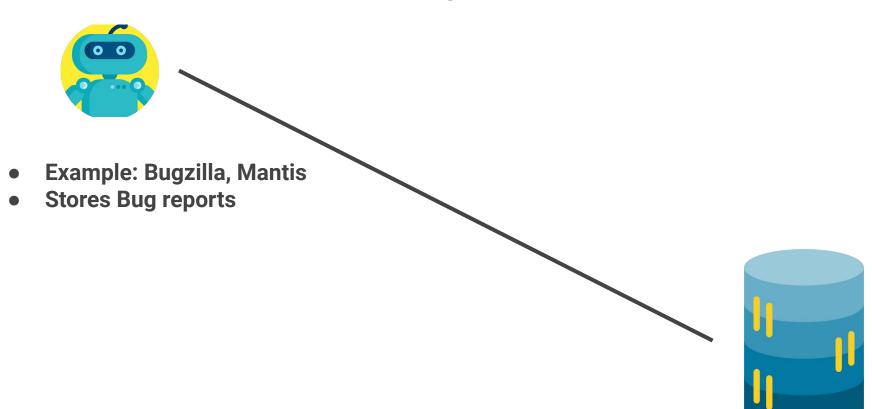
...share code amongst developers

Coordinating Teamwork

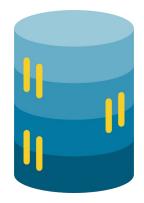
The Source of Truth



The Bug Trackers

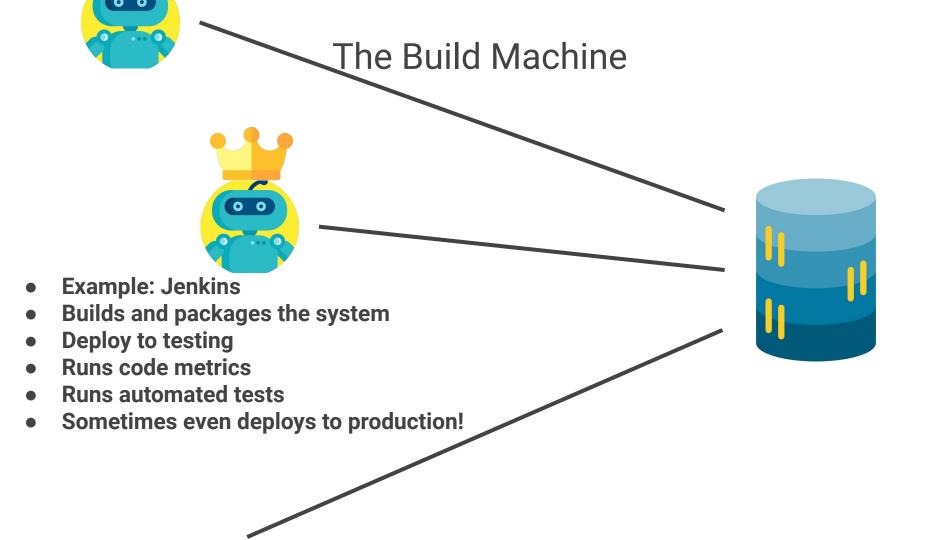


Project Management Tools





- Example: Jira
- Tracks work
- Allocate tasks



Version Control Is Useful To...

...coordinate teamwork

Making Sense of Git

Gits Strong Points





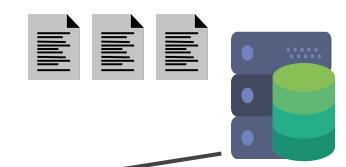


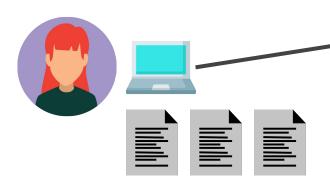


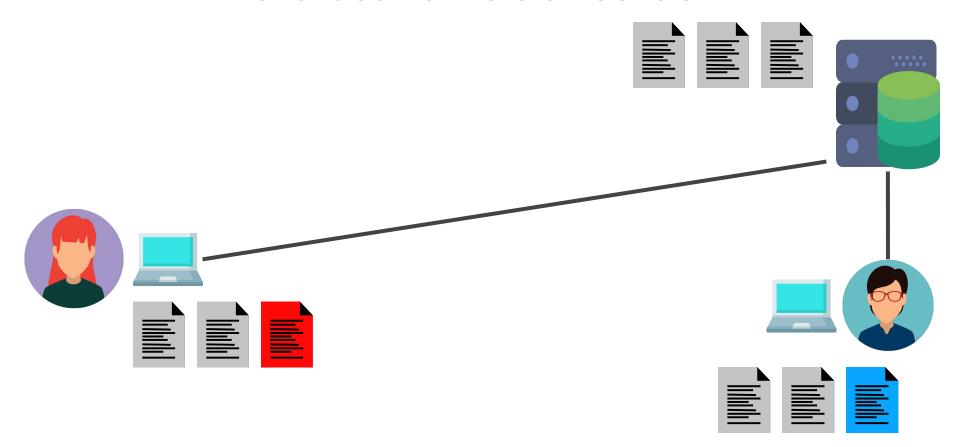
Gits Strong Points

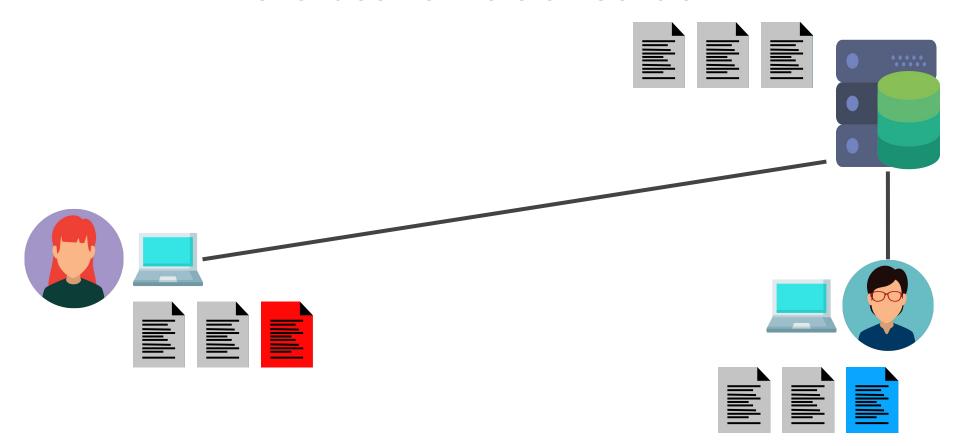


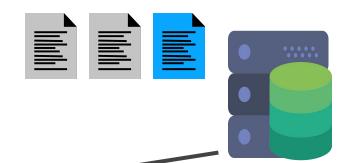


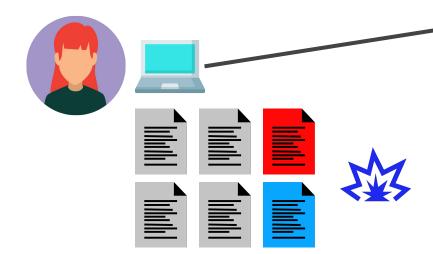


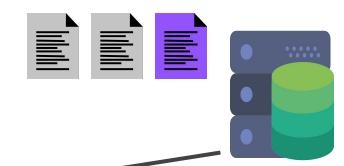


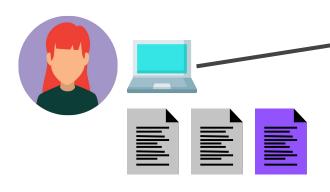


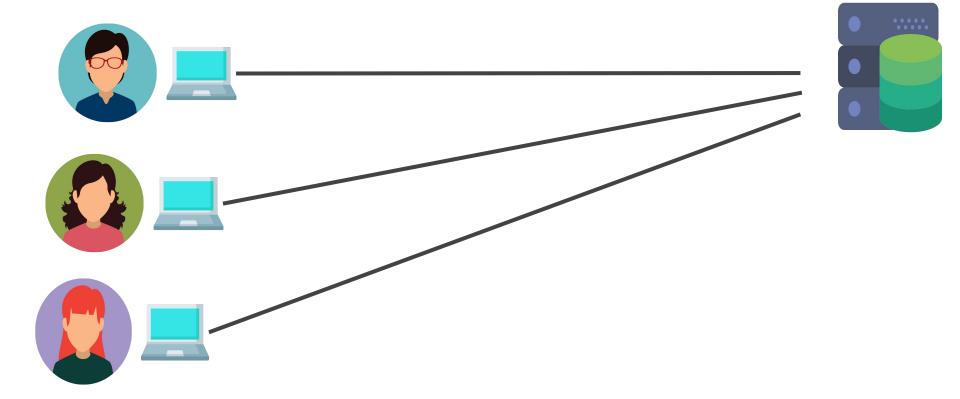














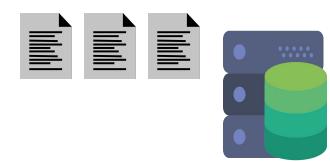
Cloning a Repository

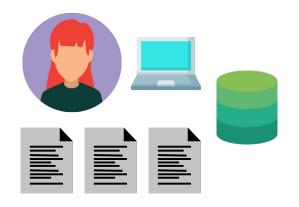




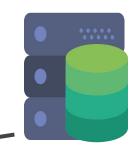
git clone <server_name>

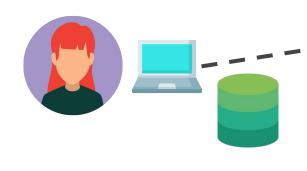
Cloning a Repository





Where Is the Repository

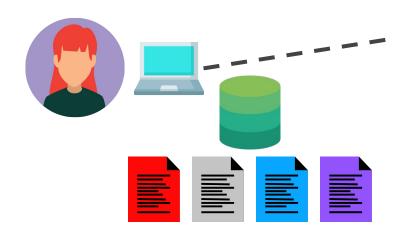




git pull

git push



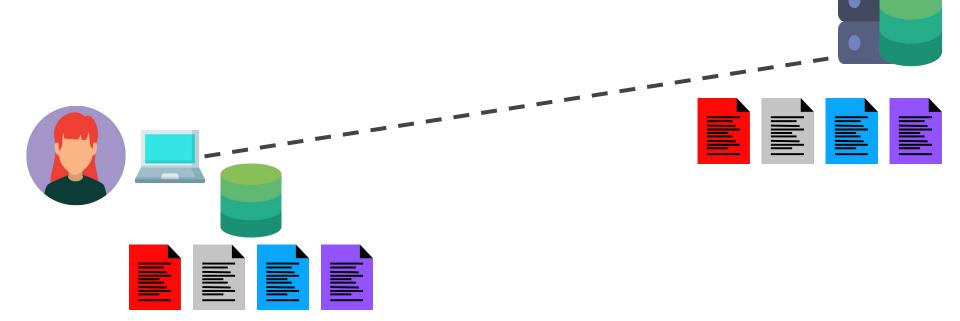


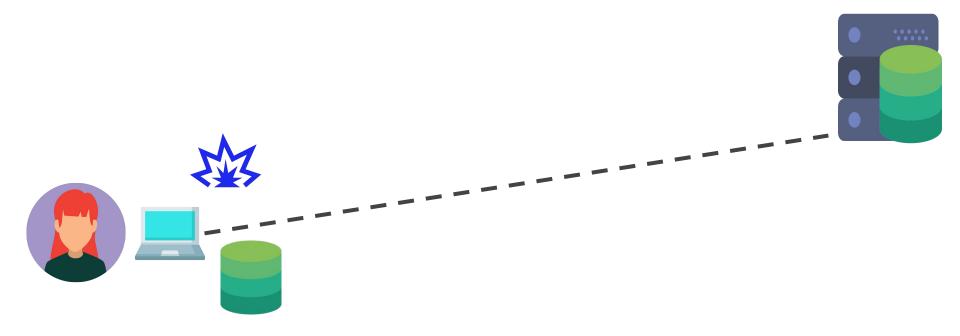


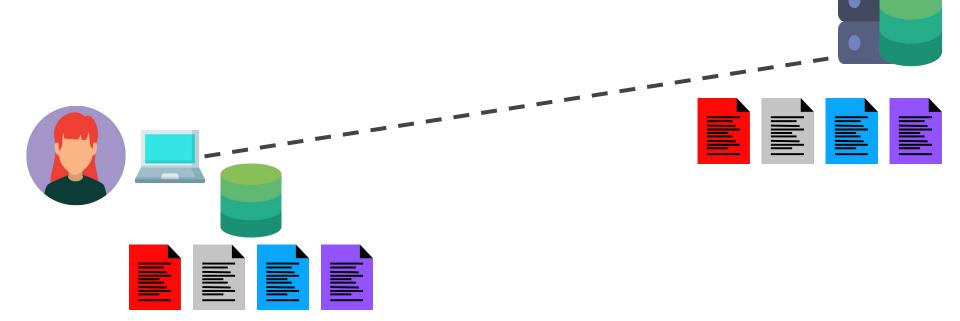






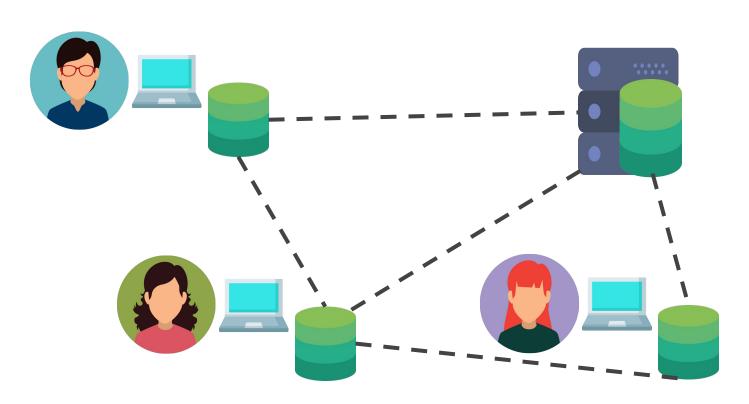














Distributed version control gives you flexibility

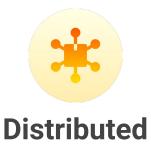
Gits Strong Points





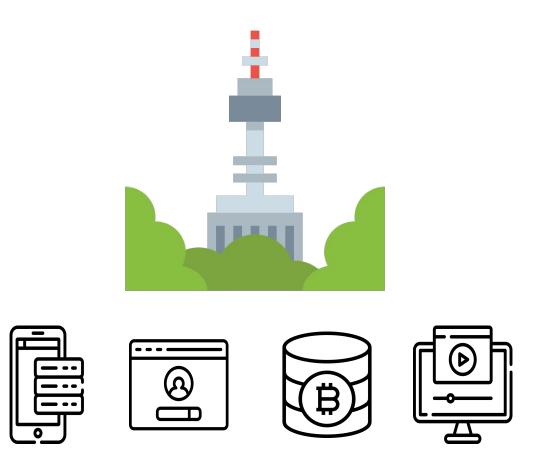




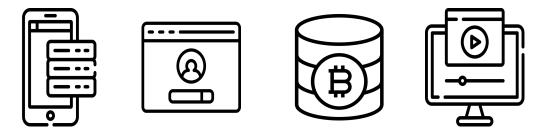




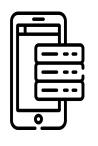
The Bad Old Days

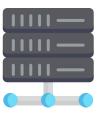


No Applications, No business!

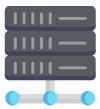




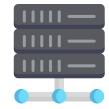




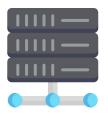


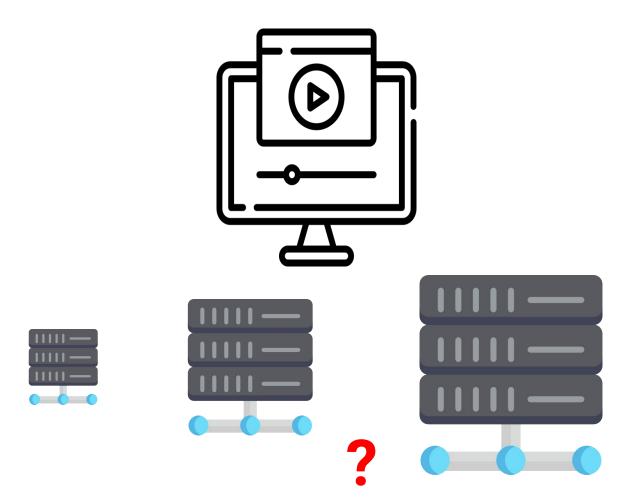


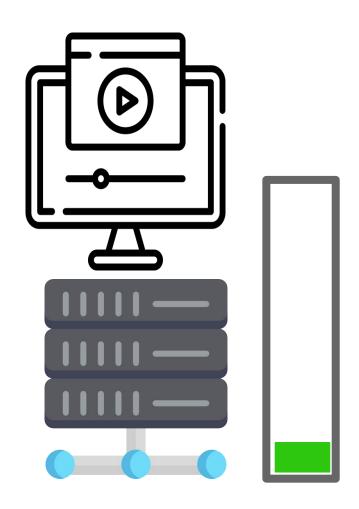




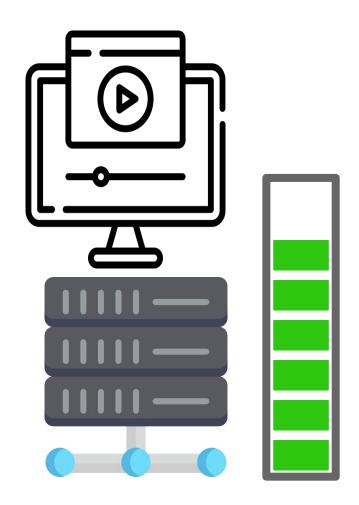


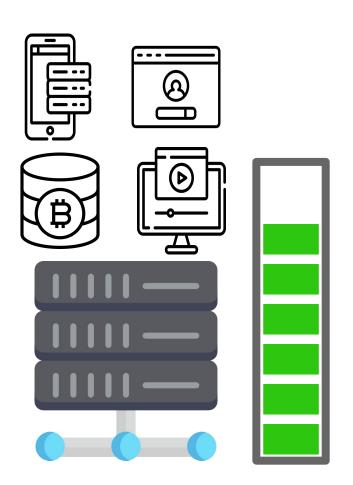






Hello VMware!





But...

VM Warts















Server



TITE











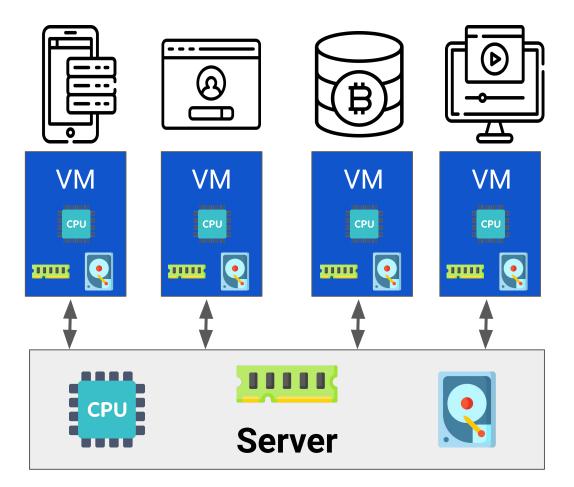


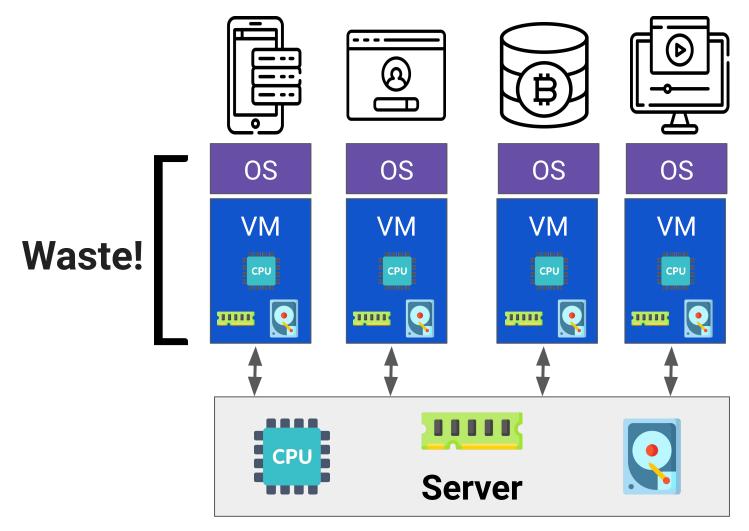












Potential OS Overheads:

- Licence Cost
- Admin
 - Patching
 - Updates
 - AV
 - More..

Containers



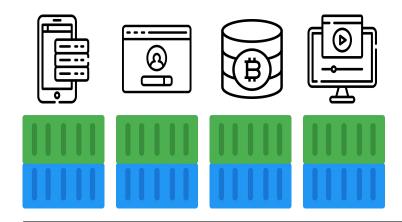












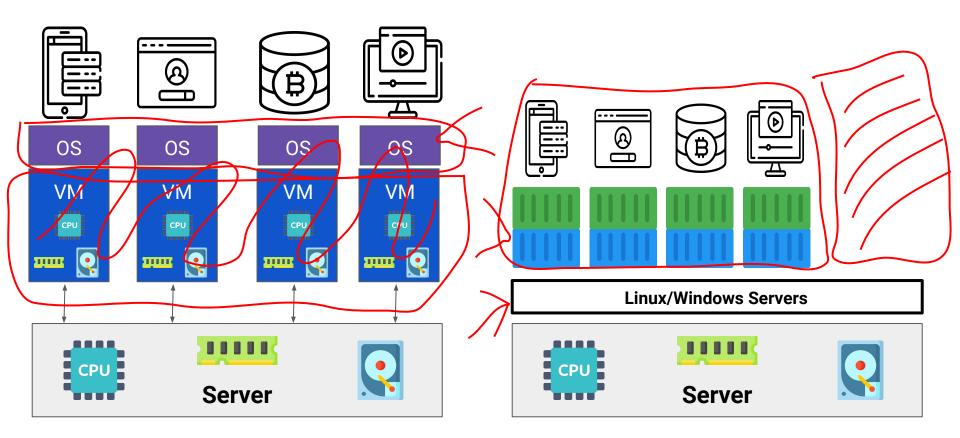
Linux/Windows Servers



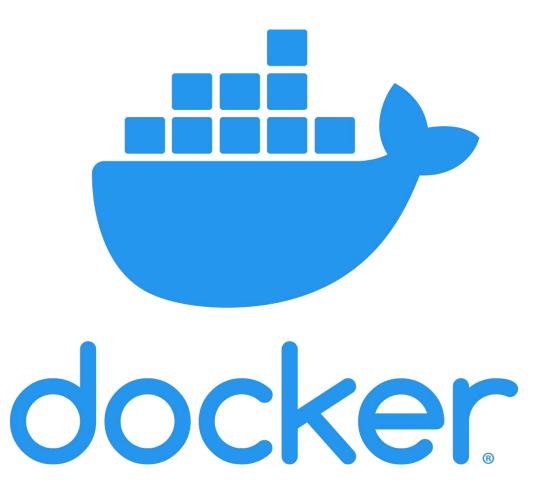






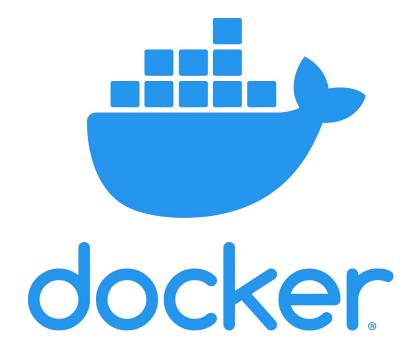


Docker



Docker: The Technology

Making containers easy



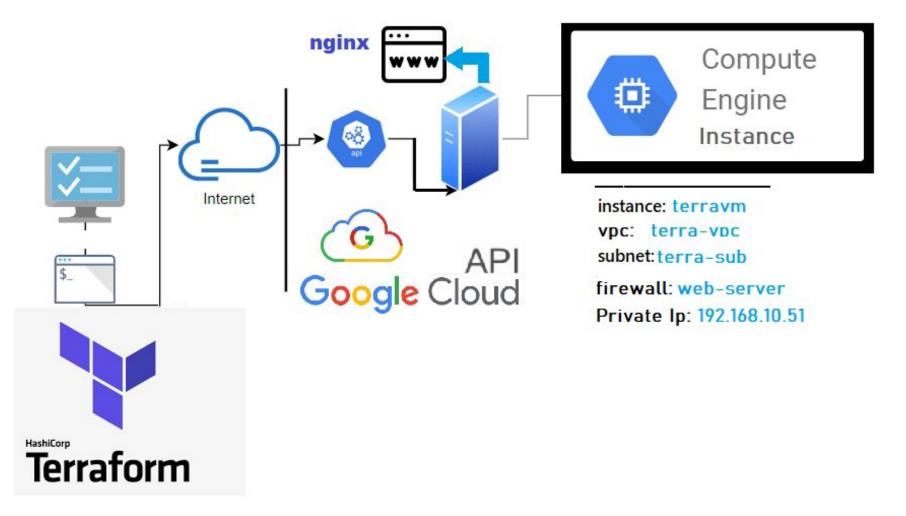
<Containerizing Apps>



Credits: Google

GCP Demo with Terraform

Explore the GCP Tour and experience the Compute Engine.



Credits: Google



Any Questions?

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Mastering DevOps: A
Step-by-Step Roadmap for
Beginners to become
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Thank You!