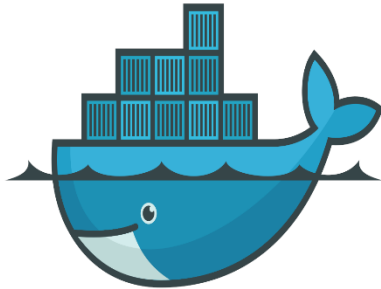


# **YouTube clone using Docker in AWS & Azure**



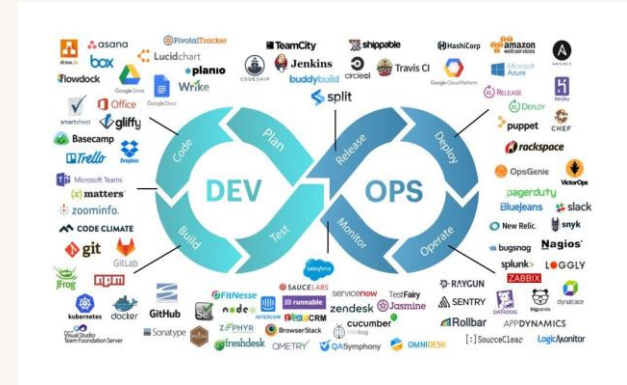
BY  
KORADA VIJAYA ANJALI  
ADITYA UNIVERSITY  
21A91A6148

# INDEX

1. INTRODUCTION
2. TECHNOLOGIES USED
3. WHY DOCKER
4. AWS and AZURE
5. DEPLOYMENT
6. RESULTS
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# 01. Introduction

- Cloud is the delivery of computing services including servers, storage, databases, networking, software, and more over the internet ("the cloud").
- **DEVOPS:** It aims to automate the process of software delivery, DevOps practices include continuous integration, continuous delivery, infrastructure as code, automated testing, and monitoring
- **Docker:** Docker is a platform that enables developers to create, deploy, and run applications in isolated containers, ensuring consistency across multiple environments.





## 02.TECHNOLOGIES USED

1. AWS
2. EC2
3. APACHE SERVER
4. AZURE
5. VIRTUAL MACHINE
6. DOCKER
7. GITHUB

## 03. WHY DOCKER

### Why Docker?

Criteria	 Virtual Machine	Docker 
OS support	Occupies a lot of memory space	Docker Containers occupy less space
Boot-up time	Long boot-up time	Short boot-up time
Performance	Running multiple virtual machines leads to unstable performance	Containers have a better performance as they are hosted in a single Docker engine
Scaling	Difficult to scale up	Easy to scale up
Efficiency	Low efficiency	High efficiency
Portability	Compatibility issues while porting across different platforms	Easily portable across different platforms
Space allocation	Data volumes cannot be shared	Data volumes can be shared and reused among multiple containers

## 04. AWS & AZURE

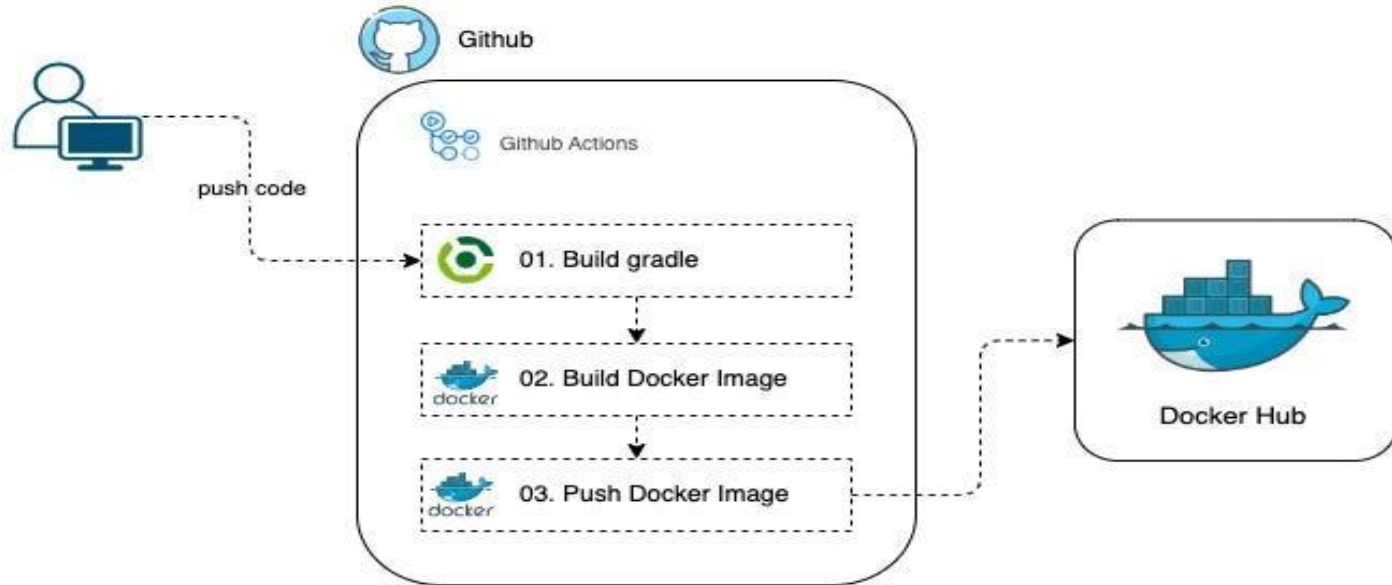
### AWS:

- Launched in 2006
- 55 availability zones
- 40% worldwide
- Netflix, Samsung, BMW, MI etc..
- Open Source
- Free tier eligible
- 0.0928 per hour ec2 cost

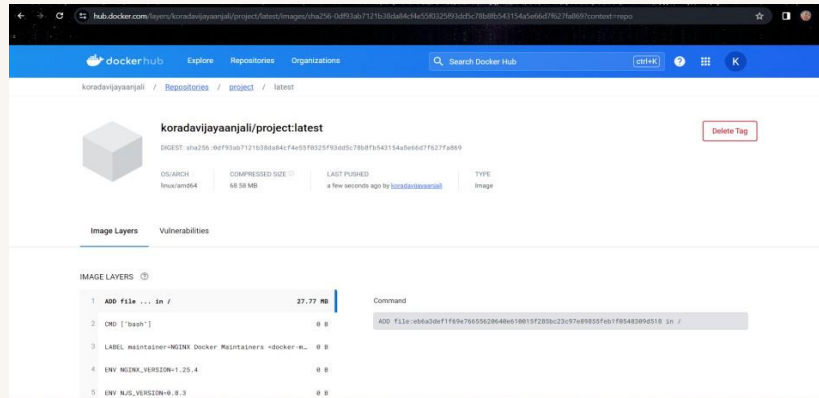
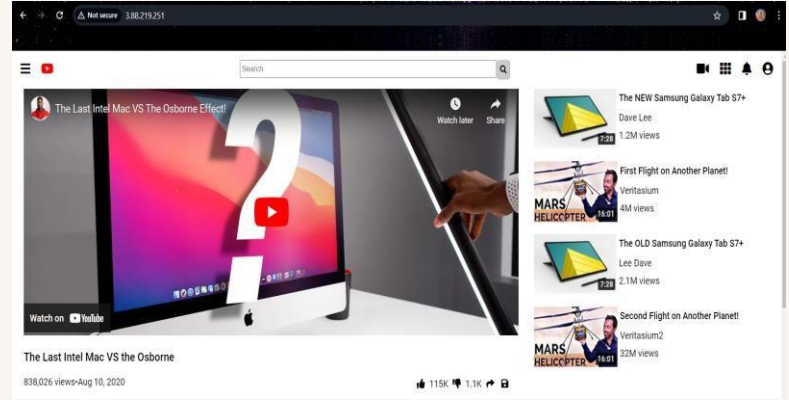
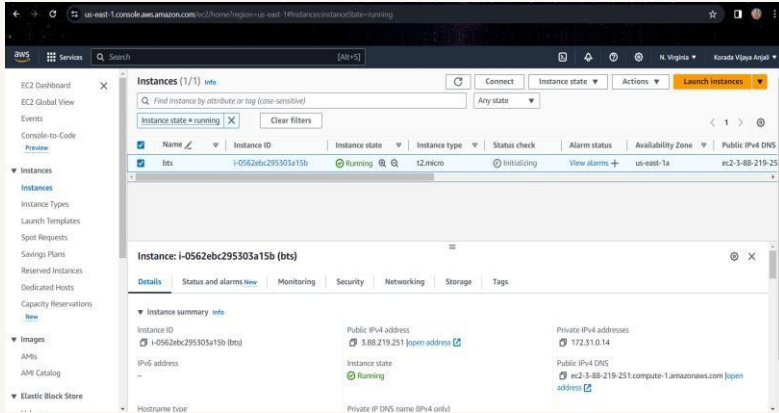
### Azure:

- Launched in 2010
- 44 availability zones
- 30% worldwide
- Johnson Controls, adobe, hp etc..
- Open source
- Free tier eligible
- 0.096 per hour vm cost

## 05. DEVELOPMENT



# 06.RESULTS





Microsoft Azure

Search resources, services, and docs (G+ /)

Home >

vm4 Virtual machine

Search

Connect Start Restart Stop Hibernate (preview) Capture Delete Refresh Open in mobile

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Connect

Connect

Bastion

Essentials

Properties Monitoring Capabilities (7) Recommendations Tutorials

Virtual machine

Computer name	vm4	Public IP address	20.55.49.
Operating system	Linux (ubuntu 22.04)	Public IP address (IPv6)	-
Image publisher	canonical	Private IP address	10.1.0.4
Image offer	0001-com-ubuntu-server-jammy	Private IP address (IPv6)	-
Image plan	22_04-ls-gen2	Virtual network/subnet	vm4-vne

Not secure 20.55.49.181/youtube\_clone/

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Lee Dave

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Second Flight on Another Planet!

Ventisium2

32M views

## 07. CONCLUSION

- In conclusion, the implementation of Docker for hosting our website has proven to be a transformative solution, offering unparalleled flexibility, scalability, and efficiency. By containerizing our web application, we've achieved seamless deployment across various environments, simplified maintenance, and enhanced security through isolation.
- Furthermore, Docker's ecosystem has empowered our team to streamline the development process, enabling rapid iteration and experimentation while maintaining consistency across development, testing, and production environments.
- This project underscores the immense value Docker brings to modern web hosting, positioning us for continued success in the dynamic digital landscape.

Thank You

