



# DevOps Training

Basic DevOps Training

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An Nguyen (Mr.)



# Agenda

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- 4 • Integrating Docker in CI/CD pipeline
- 5 • Integrating Ansible in CI/CD pipeline
- 6 • Integrating Kubernetes in CI/CD pipeline (AWS)
- 7 • Integrating Kubernetes in CI/CD pipeline (On-Premise)
- 8 • Discussion

# Prerequisite



## Technical Stack:

- Basic Linux command line knowledge and experience

## **AWS - Cloud: (\*Need valid Credit card)**

- AWS Free Tier account with valid using date.

Link: <https://aws.amazon.com/free>

## **On-premises:**

- Oracle VM Virtual Box 6.1 Manager/ Hyper-V with clean CentOS 7.x Minimum 64 bit VM.

Link: <https://www.virtualbox.org/wiki/Downloads>

## PC/Laptop:

- Linux Terminal: MobaXterm

Link: <https://mobaxterm.mobatek.net/>

- Source Code Control: GitHub Desktop

Link: <https://desktop.github.com/>

- Source Code Editor: Notepad++

- MD Editor: Typora. Link: <https://typora.io/>

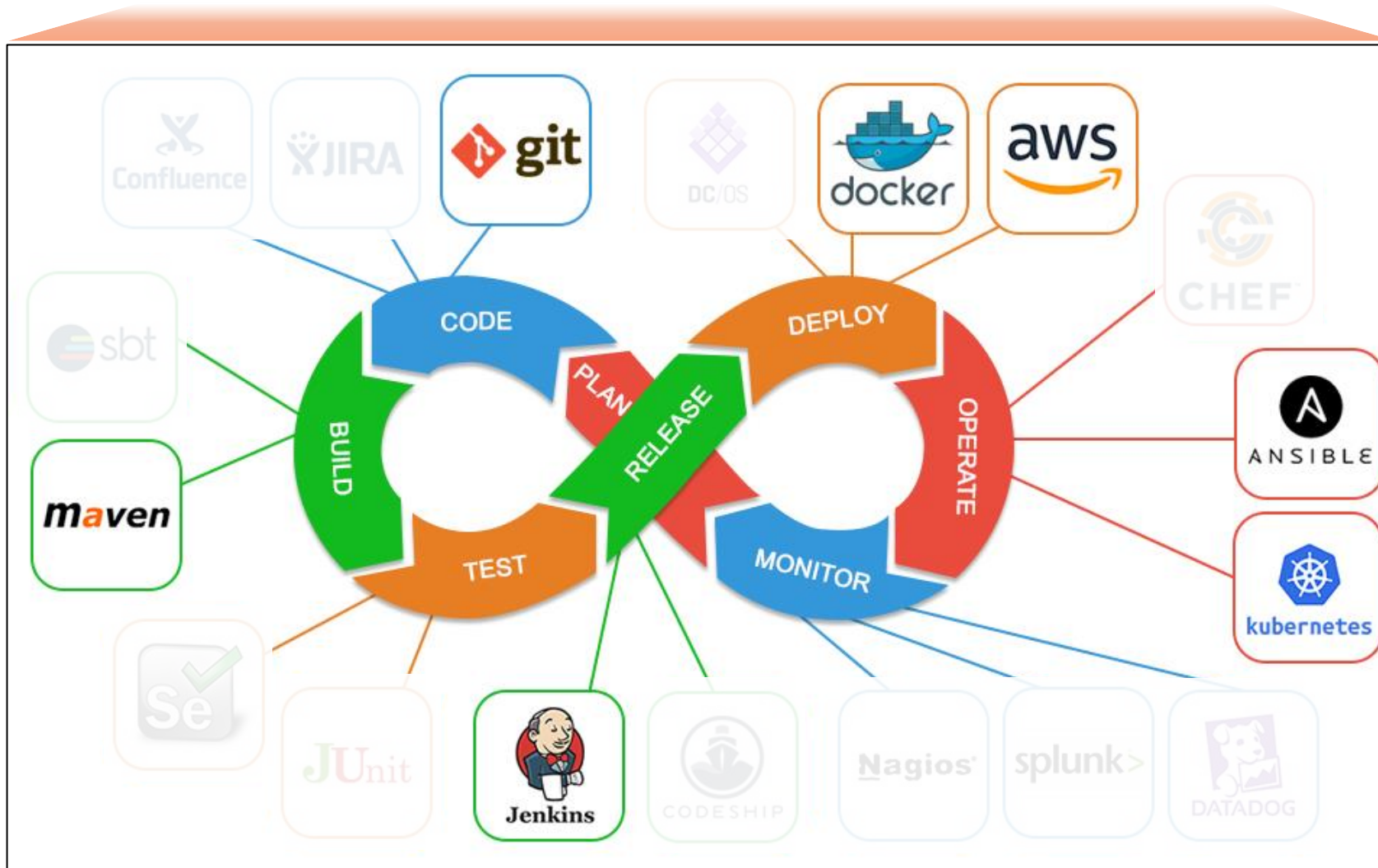
- GitHub account. Link: <https://github.com/join>

- DockerHub account.

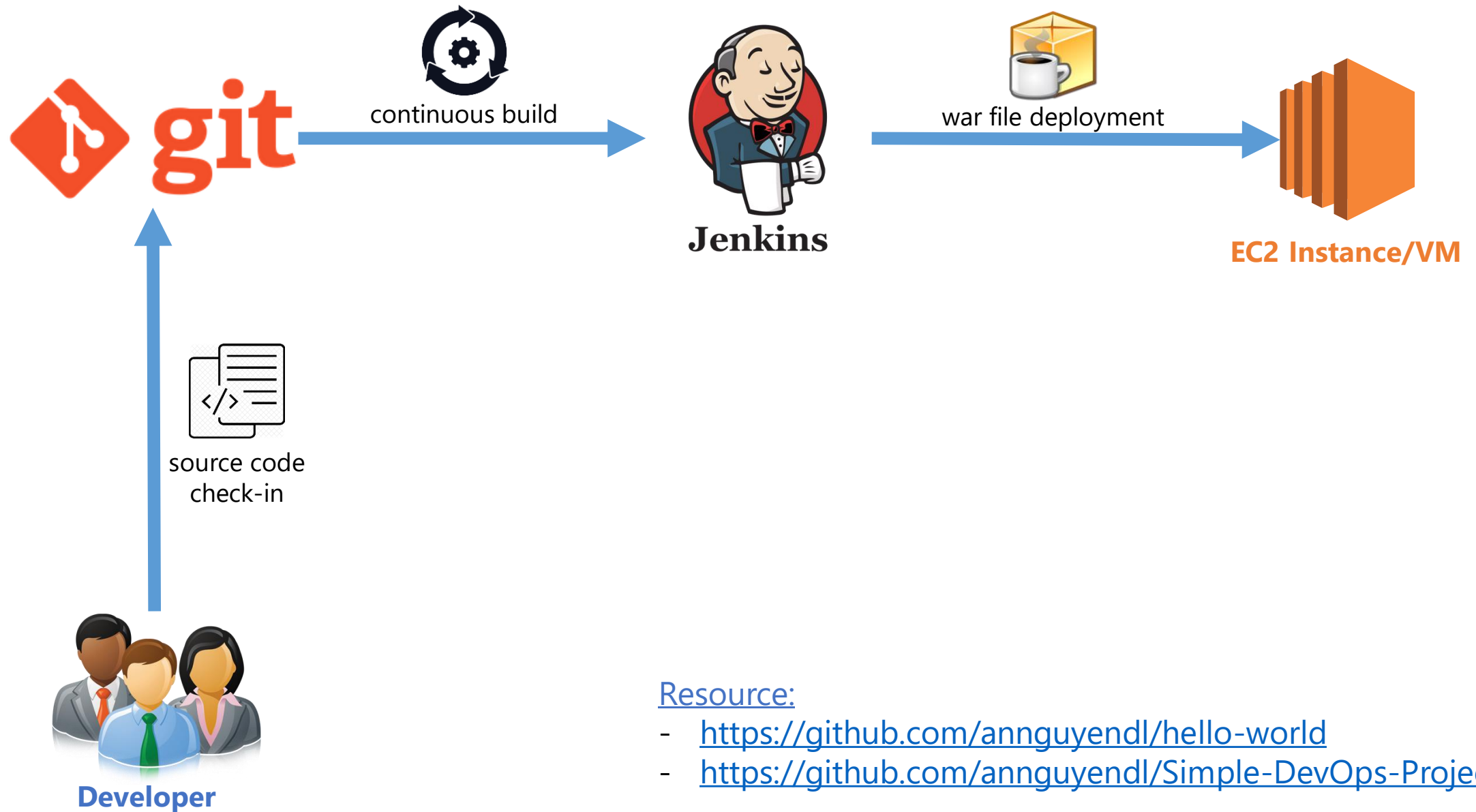
<https://hub.docker.com/signup>

# Objectives

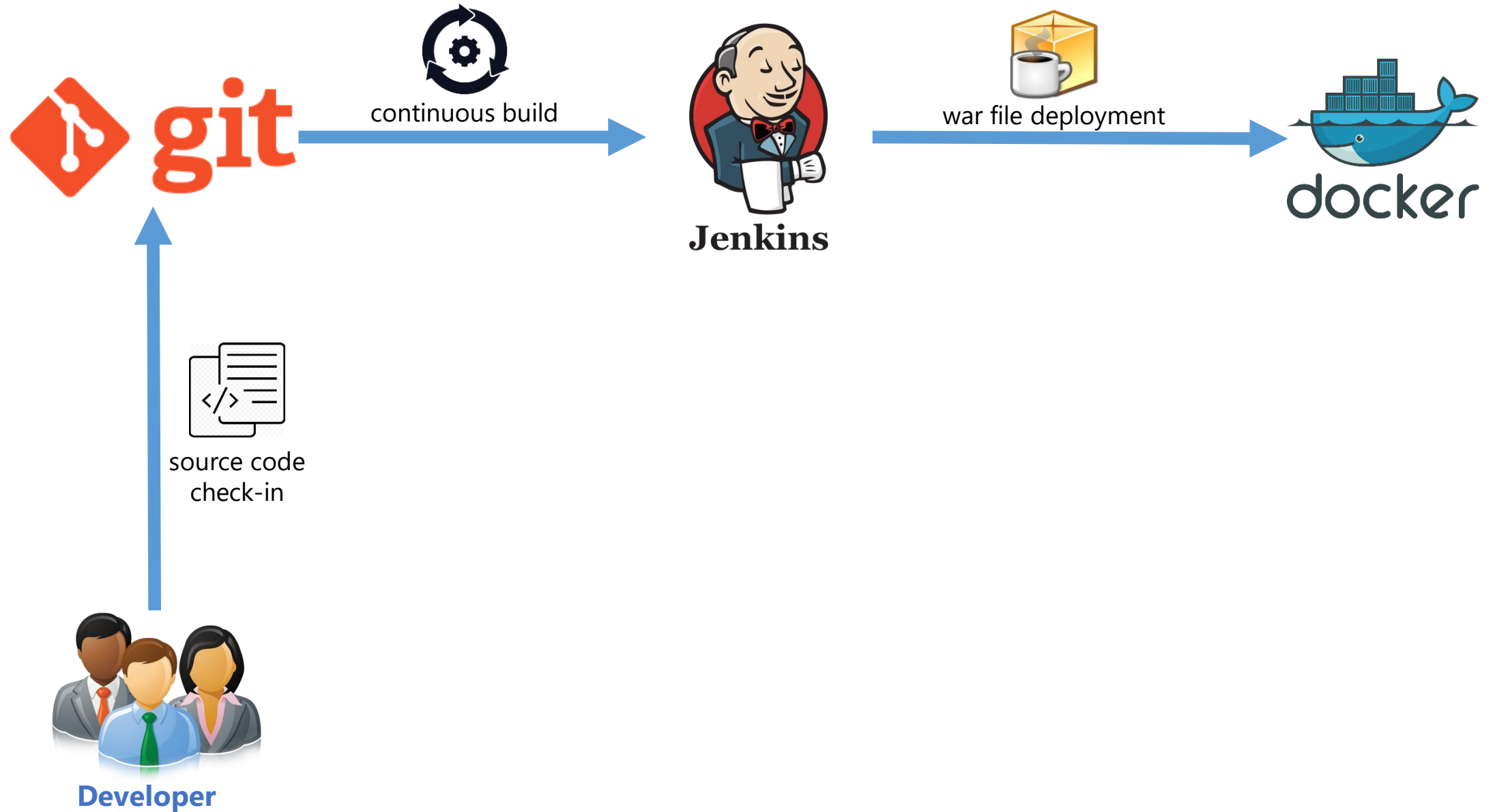
Build basic CI:CD pipeline project on AWS and On-premise



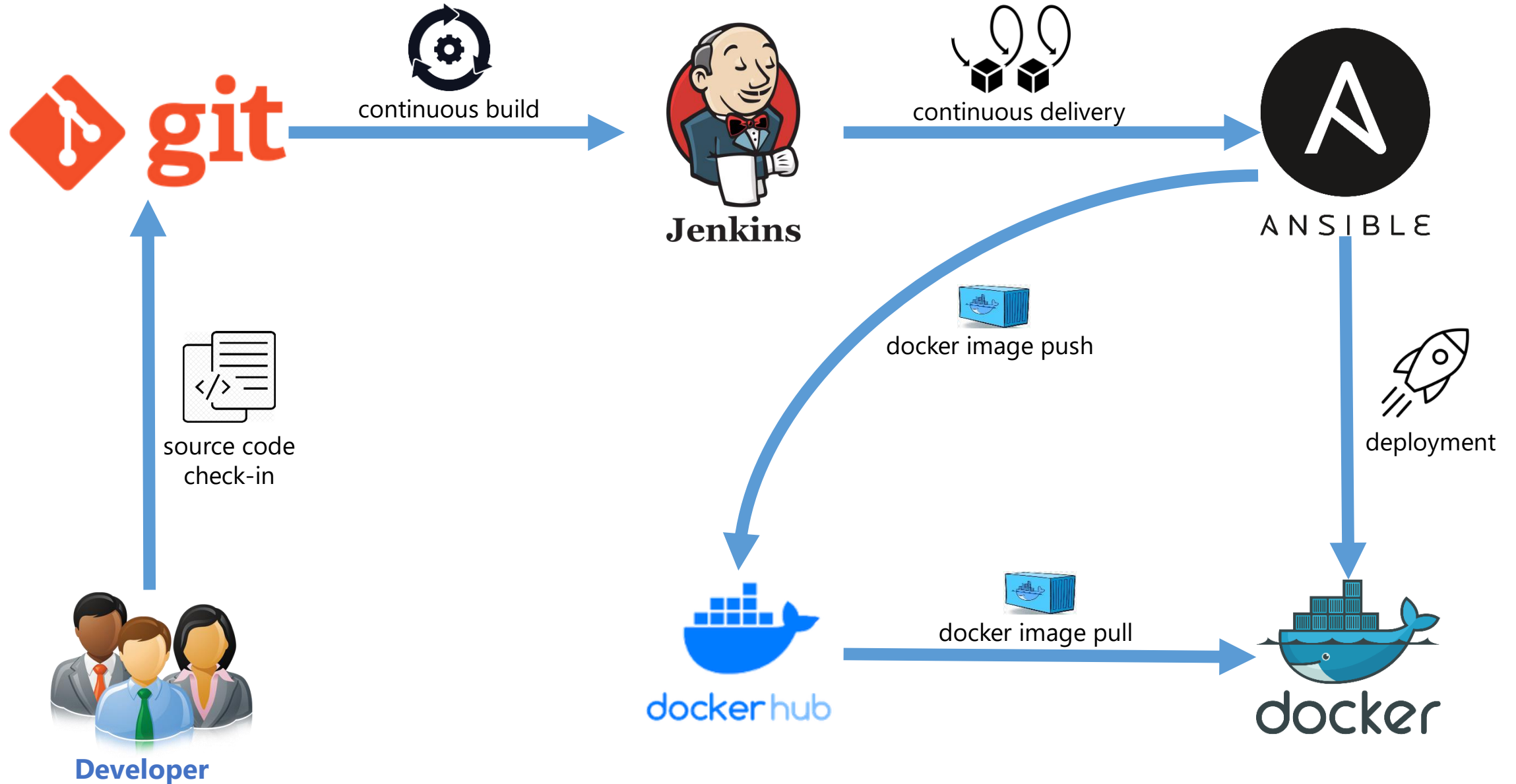
# CI/CD pipeline using Git, Jenkins, Maven, Tomcat



# Integrating Docker in CI/CD pipeline

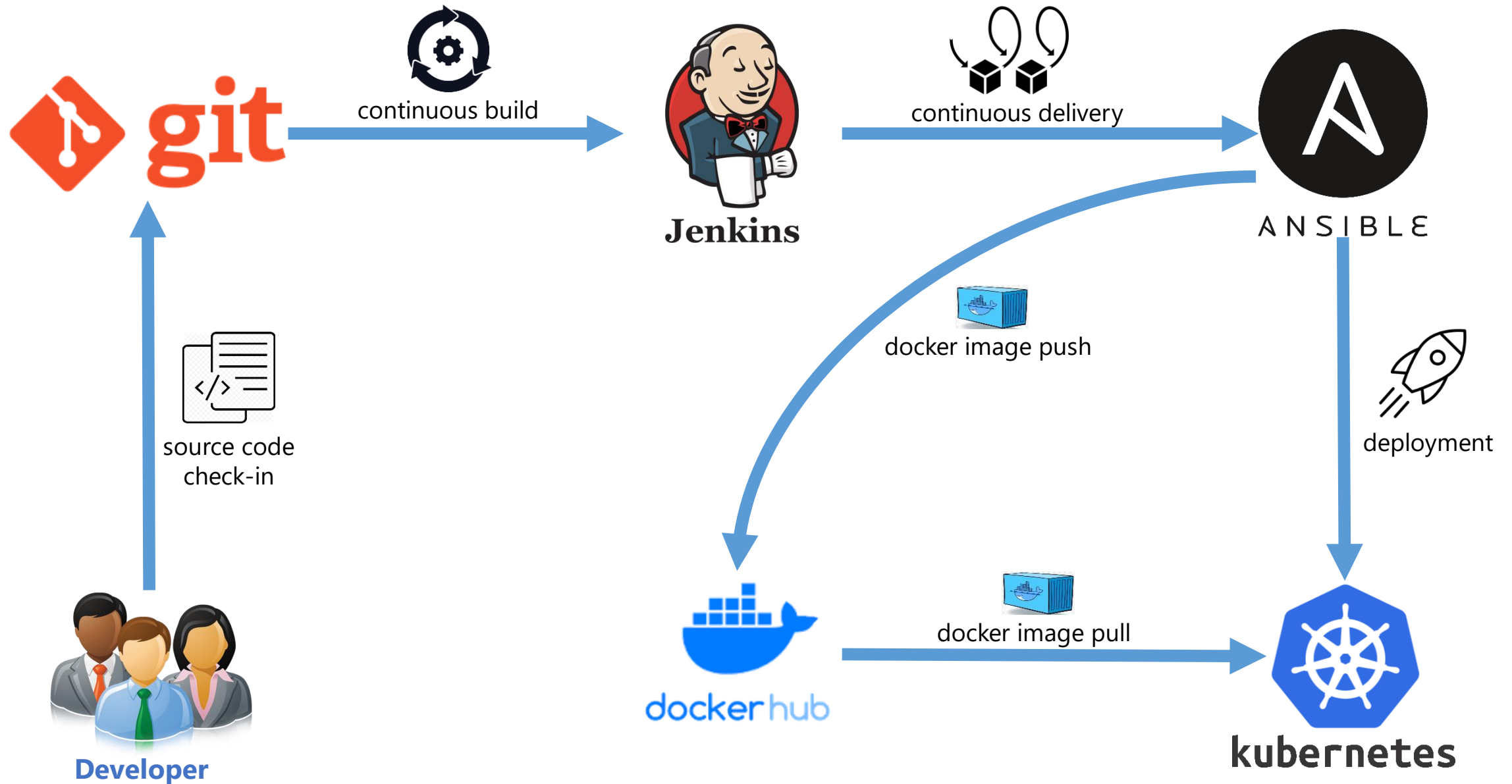


# Integrating Ansible in CI/CD pipeline



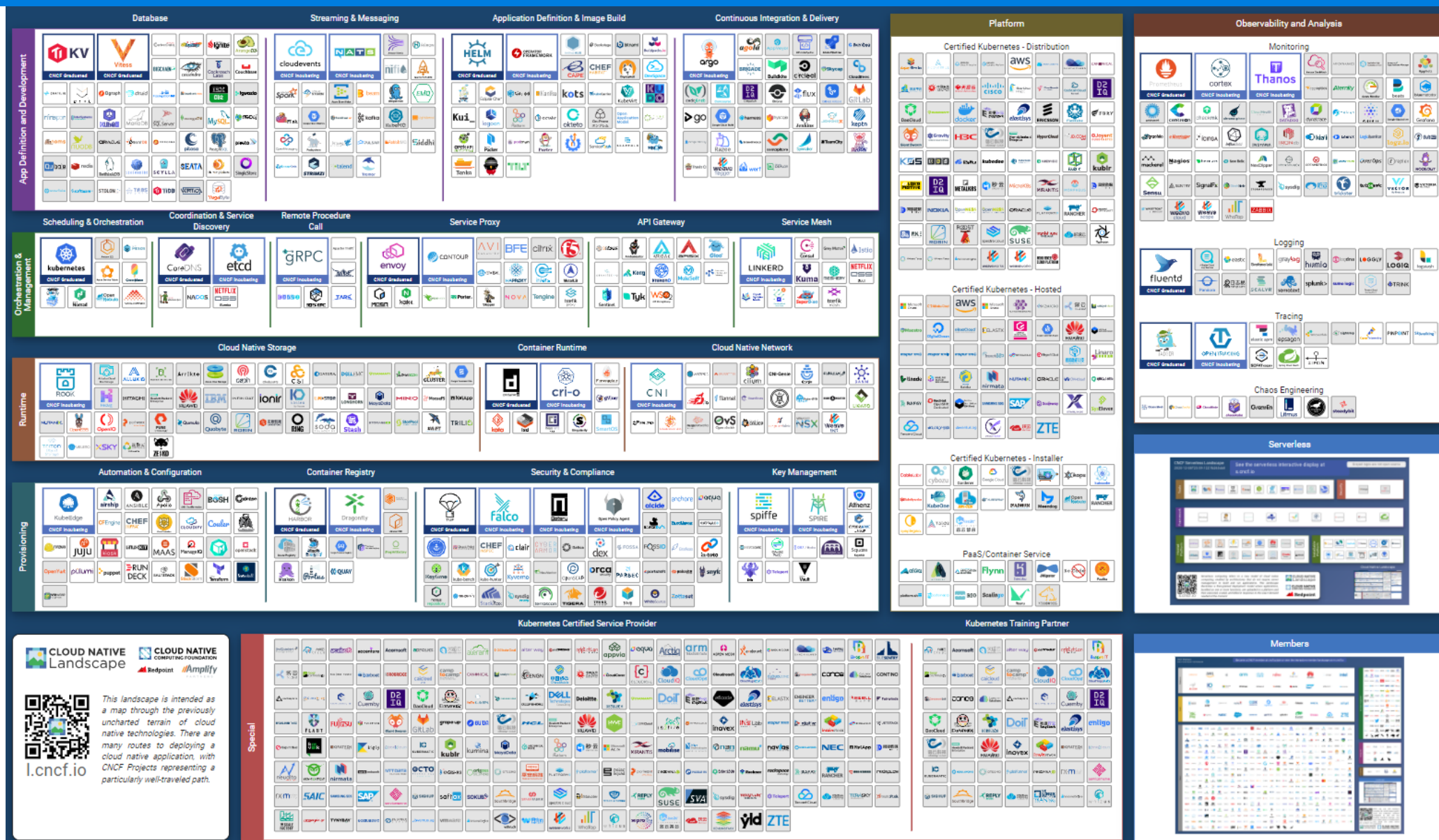


# Integrating Kubernetes in CI/CD pipeline





# CNCF Cloud Native Interactive Landscape



<https://landscape.cncf.io/>



**Q&A**