



Docker Documentation



VS Charan

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create a ec2 Linux Instance

After creating Instance Follow bellow steps

We need to create Docker file and Python file

*Docker file for **Python Execution** — File Name :- **Dockerfile***

```
FROM ubuntu:latest

# Set the working directory in the image
WORKDIR /app

# Copy the files from the host file system to the image file system
COPY . /app

# Install the necessary packages
```

```
print("Hello World")
```

create a Git hub repository and push **Python and Docker files** to Git Repo

Repo name : Docker

branch: master

```
git init
git config user.name user-name
git config user.email user-email
git remote add origin paste remote repo
git remote add file-names
git commit -m "pushing python and docker files to master"
git push origin master
```

Docker file for Java Execution— File Name :- Dockerfile

```
FROM ubuntu:latest
# Set the working directory in the image
WORKDIR /app
# Copy the files from the host file system to the image file system
COPY . /app
# Install the necessary packages
RUN apt-get update && apt-get install openjdk-17-jdk -y
# Set environment variables
ENV NAME World
```

```
}  
}
```

push the **Java File** and **Docker File** to Git Repo

Repo name : Docker

branch: java

```
git init  
git config user.name user-name  
git config user.email user-email  
git remote add origin paste remote repo  
git remote add file-names  
git commit -m "pushing java and docker files to master"  
git push origin java
```

Docker file for Go Execution — File Name :- Dockerfile

```
#####  
# BASE IMAGE  
#####  
  
FROM ubuntu AS build  
  
RUN apt-get update && apt-get install -y golang-go  
  
ENV G0111MODULE=off
```

```
# Set the entrypoint for the container to run the binary
ENTRYPOINT ["/app"]
```

Java file — File Name :- calculator.go

```
package main

import (
    "bufio"
    "fmt"
    "os"
    "strconv"
    "strings"
)

func main() {
    fmt.Println("Hi VS Charan, I am a calculator app ....")

    for {
        // Read input from the user
        reader := bufio.NewReader(os.Stdin)
        fmt.Print("Enter any calculation (Example: 1 + 2 (or) 2 * 5 -> Please maintain  
text, _ := reader.ReadString('\n')

        // Trim the newline character from the input
        text = strings.TrimSpace(text)

        // Check if the user entered "exit" to quit the program
        if text == "exit" {
            break
        }

        // Split the input into two parts: the left operand and the right operand
        parts := strings.Split(text, " ")
```

```

        continue
    }

    // Perform the calculation based on the operator
    var result int
    switch parts[1] {
    case "+":
        result = left + right
    case "-":
        result = left - right
    case "*":
        result = left * right
    case "/":
        result = left / right
    default:
        fmt.Println("Invalid operator. Try again.")
        continue
    }

    // Print the result
    fmt.Printf("Result: %d\n", result)
}
}

```

push the **Go File** and Docker File to Git Repo

Repo name : Docker

branch: go

```

git init
git config user.name user-name

```

```
sudo yum install git -y
```

clone the project in EC2

```
git clone -b master paste git repo url (http)
```

Install Docker

```
sudo yum install docker -y
```

Enable Docker

```
sudo systemctl enable docker
```

Start Docker

```
sudo systemctl start docker
```

```
docker images
```

To run the containers (from Image to Containers) for python execution

```
docker run -it image_name (or) image_id
```

Output: Hello World

To run Java Files

To see the Branches local and Remote

```
git branch -a
```

To switch the branch

```
git checkout java
```

Build Image for java

To run the containers (from Image to Containers) for Java execution

```
docker run -it image_name (or) image_id
```

Output: Welcome to DevOps Community

To run Go Files

To see the Branches local and Remote

```
git branch -a
```

To switch the branch

```
git checkout go
```

Build Image for java

```
docker build -t image_name .
```



```
docker run -it image_name (or) image_id
```

Output: Enter any calculation (Example: 1 + 2 (or) 2 *
5 -> Please maintain spaces as shown in example): 1
+ 2

3

To check the Containers

```
docker ps -a
```

You will see 3 Containers

```
[ec2-user@ip-172-31-17-193 Docker_practice]$ sudo docker ps -a
```

CONTAINER ID	IMAGE	COMMAND	CREATED	STATUS	PORTS	NAMES
3d1c3e35c18f	java	"java app.java"	About a minute ago	Exited (0) About a minute ago		epic_napier
e27959cf4941	go	"python3 app.py"	16 minutes ago	Exited (0) 15 minutes ago		cool_yonath
c79e5994f7be	75bf778ecacd	"/app"	6 hours ago	Exited (2) 6 hours ago		flamboyant_williamson

```
[ec2-user@ip-172-31-17-193 Docker_practice]$
```

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java-3.0


Stage View

Average stage times:
(Average full run time: ~2min 17s)

#1
Nov 27 10:27
No Changes

Declarative: Checkout SCM	Git Checkout	Unit Test maven	Integration Test maven	Static code analysis: Sonarqube	Quality Gate Status Check : Sonarqube	Maven Build : maven	Docker Image Build	Docker Image Scan: trivy	Pushing Jfrog File
493ms	536ms	20s	13s	34s	394ms	7s	6s	28s	1s
493ms	536ms	20s	13s	34s	394ms <small>(paused for 7s)</small>	7s	6s	28s	1s


Permalinks

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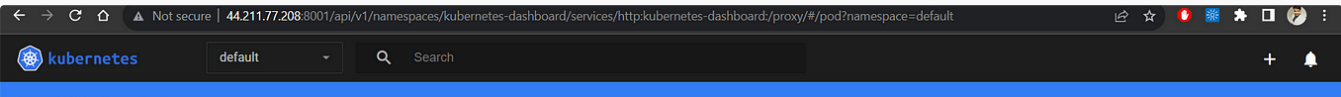
Assignment—2

pushing the .jar file to Jfrog Automatically

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MINIKUBE PROJECT2 SETUP

after installing start and enable the docker by following commands

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```
Search [Alt+S]
AWS Amplify VPC CloudShell Lambda CloudWatch Simple Notification Service Route 53 Billing
./net-tools 1.60+git20181103.0eebece-1ubuntu5_amd64.deb ...
1.60+git20181103.0eebece-1ubuntu5) ...
unselected package jenkins.
./jenkins_2.414.3_all.deb ...
414.3) ...
(1.60+git20181103.0eebece-1ubuntu5) ...
.414.3) ...
systemd/system/multi-user.target.wants/jenkins.service → /lib/systemd/system/jenkins.service.
or man-db (2.10.2-1) ...
.
...
.
g deferred:
tart.d/dbus.service
tty@tty1.service
tworkd-dispatcher.service
attended-upgrades.service
er@1000.service
be restarted.
running outdated binaries.
ing outdated hypervisor (qemu) binaries on this host.
39:~$ java --version
-08-24
onment (build 17.0.8.1+1-Ubuntu-0ubuntu122.04)
VM (build 17.0.8.1+1-Ubuntu-0ubuntu122.04, mixed mode, sharing)
39:~$ jenkins --version
39:~$
```

Java_app_3.0—Jenkins CI—Pipeline

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[Alt+S]

lambda CloudWatch Simple Notification Service Route 53 Billing

Connect

	Instance type	Status check	Alarm status	Availability zone
🔍 🔍	t2.micro	🟢 2/2 checks passed	No alarms	+ us-east-1
🔍 🔍	t2.micro	🟢 2/2 checks passed	No alarms	+ us-east-1
🔍 🔍	t2.micro	🟢 2/2 checks passed	No alarms	+ us-east-1

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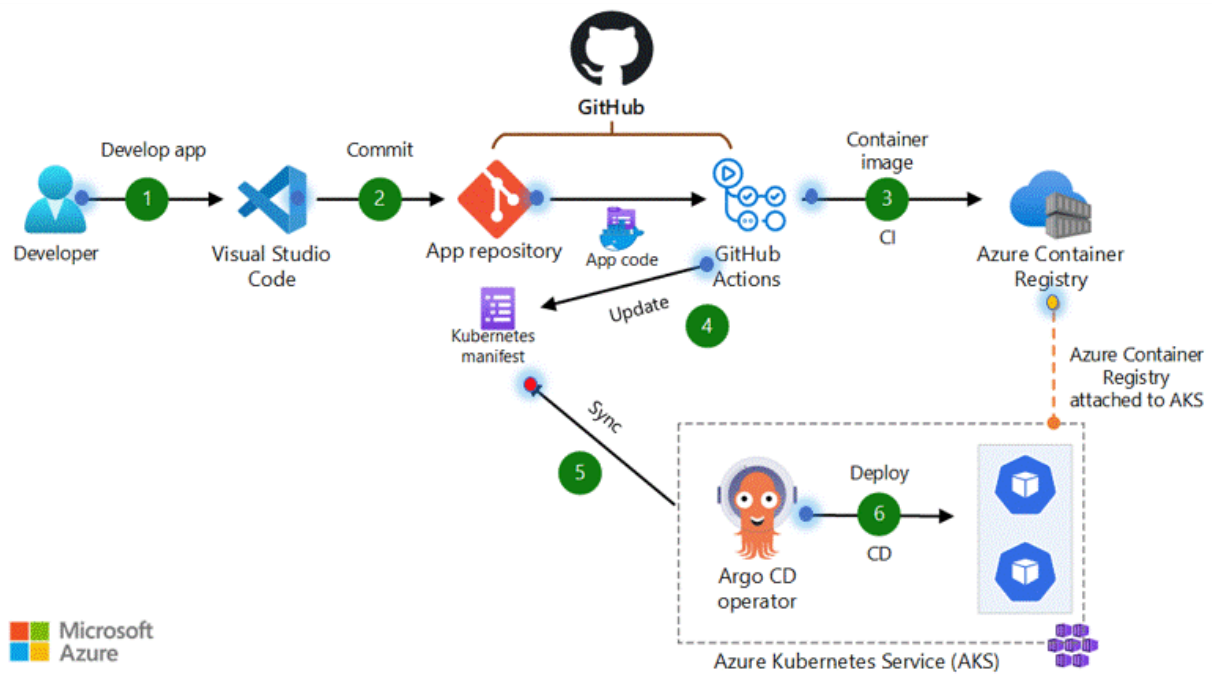
Setting up Master Slave


first we need to create 3 VM using amazon linux

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 2 

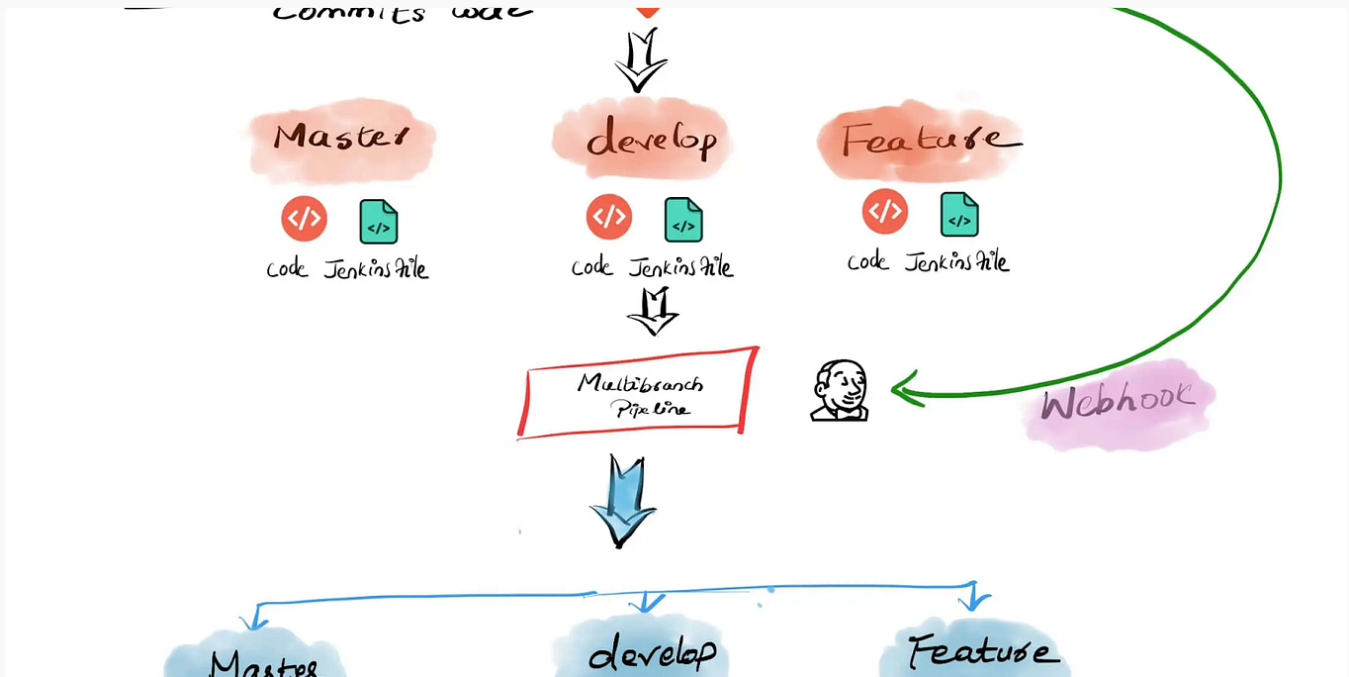
 

```
join 146.190.135.86:6443 --token flh95l.u4nkex9cw8d0g63w --disco
8d1666af50c85f060b9fadc73f13c932e0e2a9eeef08f51f91a
e-flight checks
nfiguration from the cluster...
an look at this config file with 'kubectl -n kube-system get cm kubeadm-
kubelet-configuration -o yaml' or 'kubectl get configmap kubelet-configuration -n kube-system -o yaml'
```

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