

Edureka Project

Devops Certification Training

Name : Gadhi Sreenivasa Reddy

Requirements Needed

Master Node

Python3
GIT
Php
Java
JDK
JRE
Ansible
Jenkins
Maven
Docker Swarm

Slave Node

Python
GIT

Created Two Ubuntu VM Instances using Google Cloud Platform(GCP).

Installed Requirements

```
root@proj-master:~# whereis java
java: /usr/bin/java /usr/share/java /usr/share/man/man1/java.1.gz
root@proj-master:~# whereis mvn
mvn: /usr/bin/mvn /usr/share/man/man1/mvn.1.gz
root@proj-master:~# whereis git
git: /usr/bin/git /usr/share/man/man1/git.1.gz
root@proj-master:~# whereis ant
ant: /usr/bin/ant /usr/share/ant /usr/share/man/man1/ant.1.gz
root@proj-master:~# whereis python3
python3: /usr/bin/python3.6m /usr/bin/python3.6 /usr/bin/python3 /usr/lib/python3.6 /usr/lib/python3 /usr/lib/python3.7 /usr/lib/python3.8 /etc/pyt
n3.6 /etc/python3 /usr/local/lib/python3.6 /usr/share/python3 /usr/share/man/man1/python3.1.gz
root@proj-master:~# whereis php
php: /usr/bin/php /usr/bin/php7.2 /usr/lib/php /etc/php /usr/share/php7.2-json /usr/share/php7.2-pgsql /usr/share/php7.2-common /usr/share/php7.2-c
ache /usr/share/php7.2-mysql /usr/share/php7.2-readline /usr/share/man/man1/php.1.gz
root@proj-master:~# whereis docker
docker: /usr/bin/docker /etc/docker /usr/libexec/docker /usr/share/man/man1/docker.1.gz
root@proj-master:~# whereis ansible
ansible: /usr/bin/ansible /etc/ansible /usr/share/man/man1/ansible.1.gz
root@proj-master:~# whereis jenkins
jenkins: /usr/share/jenkins
root@proj-master:~# █
```


Adding Home path to Jenkins




Git

Name

Default

Path to Git executable 

/usr/bin/git

☐ Install automatically 

Docker

Docker installations

Add Docker



Docker

Name

Docker path

Installation root

/usr/libexec/docker

☐ Install automatically

Ant

Ant installations

Add Ant



Ant

Name

ANT home

ANT_HOME

/usr/share/ant

☐ Install automatically

Maven

Maven installations

Add Maven



Maven

Name

Maven

MAVEN_HOME

/usr/share/maven

☐ Install automatically

PHP

PHP installations

Add PHP



PHP

Name

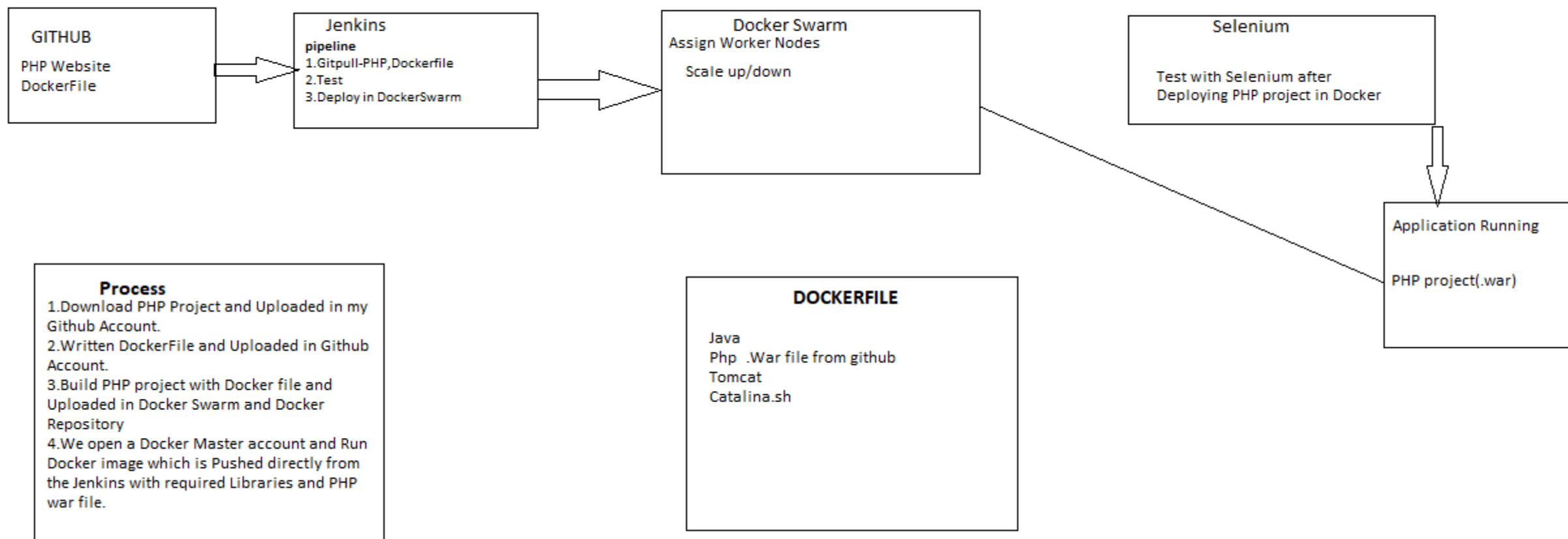
php home

Installation directory

/usr/bin/php7.2

☐ Install automatically

PROCESS



Uploaded PHP project in my Account

main ▾ Edu_Project / Project / PHP-Website /

Go to file

Add file ▾

...



Sreenivasa9593 Project Downloaded from Edureka github ...

0e9d6bb 4 minutes ago History

..



content

Project Downloaded from Edureka github

4 minutes ago



template

Project Downloaded from Edureka github

4 minutes ago



config.php

Project Downloaded from Edureka github

4 minutes ago



functions.php

Project Downloaded from Edureka github

4 minutes ago



index.php

Project Downloaded from Edureka github

4 minutes ago



readme.md

Project Downloaded from Edureka github

4 minutes ago

Git path and credentials

☒ Git

Repositories

Repository URL

https://github.com/Sreenivasa9593/Edu_Project.git

Credentials

Sreenivasa9593/***** (MY Github Credentials) ▼

 Add ▼

Build Environment

☒ With Ant

Ant Version

ANT home

JDK

java



Console Output

```
Started by user srinu
Running as SYSTEM
Building in workspace /var/lib/jenkins/workspace/php git pull
The recommended git tool is: NONE
using credential 15f28d06-1e01-4e6a-b3f2-922dd908a139
> /usr/bin/git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/php git pull/.git # timeout=10
Fetching changes from the remote Git repository
> /usr/bin/git config remote.origin.url https://github.com/Sreenivasa9593/Edu_Project.git # timeout=10
Fetching upstream changes from https://github.com/Sreenivasa9593/Edu_Project.git
> /usr/bin/git --version # timeout=10
> git --version # 'git version 2.17.1'
using GIT_ASKPASS to set credentials MY Github Credentials
> /usr/bin/git fetch --tags --progress -- https://github.com/Sreenivasa9593/Edu_Project.git +refs/heads/*:refs/remotes/origin/* #
timeout=10
> /usr/bin/git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 0e9d6bbd350e7d8b7faa61dc24cc29b92a45d7c9 (refs/remotes/origin/main)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f 0e9d6bbd350e7d8b7faa61dc24cc29b92a45d7c9 # timeout=10
Commit message: "Project Downloaded from Edureka github"
> /usr/bin/git rev-list --no-walk 0e9d6bbd350e7d8b7faa61dc24cc29b92a45d7c9 # timeout=10
Finished: SUCCESS
```


DockerFile creation and uploaded in my github account

10 lines (10 sloc) | 271 Bytes

```
1 FROM ubuntu
2 RUN apt-get update -y
3 ENV DEBIAN_FRONTEND=noninteractive
4 RUN apt-get install -y php libapache2-mod-php
5 RUN apt-get install -y apache2
6 RUN apt-get install -y git
7 RUN apt-get update -y
8 EXPOSE 80
9 WORKDIR /usr/sbin
10 CMD ["apachectl", "-D", "FOREGROUND"]
```



Sreenivasa9593 Sample PHP Project

27a6666 19 minutes ago



4 commits



content

Sample PHP Project

19 minutes ago



template

Sample PHP Project

19 minutes ago



Dockerfile

Sample PHP Project

19 minutes ago



README.md

Initial commit

yesterday



config.php

Sample PHP Project

19 minutes ago



functions.php

Sample PHP Project

19 minutes ago



index.php

Sample PHP Project

19 minutes ago



readme.md

Sample PHP Project

19 minutes ago

Jenkins Pipeline Script(groovy)

Pipeline script

Script

```
1 pipeline {
2     agent any
3     stages{
4         stage('-----GIT CLONE-----'){
5             steps{
6                 git url : 'https://github.com/Sreenivasa9593/Edu_Project.git',branch : 'main'
7             }
8         }
9     }
10    stage('-----Docker Image-----'){
11        steps{
12            sh 'docker build -t srinu/phpproj:v1 .'
13            sh 'docker image ls -a '
14        }
15    }
16    stage('---Running Docker Container----'){
17        steps{
18            sh 'docker run -d -P srinu/phpproj:v1 '
19            sh 'docker conatiner ls -a'
20        }
21    }
22 }
23 }
```

```
Removing intermediate container 282b119143bd
---> 827d3c39a30d
Step 8/10 : EXPOSE 80
---> Running in f5e2fb5325ae
Removing intermediate container f5e2fb5325ae
---> d7208a5fa569
Step 9/10 : WORKDIR /usr/sbin
---> Running in 633db1936e45
Removing intermediate container 633db1936e45
---> 5174853fbd2d
Step 10/10 : CMD ["apachectl", "-D", "FOREGROUND"]
---> Running in af46af3afc9d
Removing intermediate container af46af3afc9d
---> c8a3eee16704
Successfully built c8a3eee16704
Successfully tagged srinu/phpproj:v1
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Docker Image is build in Vm Instance

```
root@proj-master:~# docker image ls
```

REPOSITORY	TAG	IMAGE ID	CREATED	SIZE
srinu/phpproj	v1	c8a3eee16704	18 seconds ago	276MB
ubuntu	latest	7e0aa2d69a15	2 weeks ago	72.7MB

```
root@proj-master:~#
```

Running Docker image to form docker container

COMMANDS Used to Run Docker Image

```
docker image ls
docker run -d -P srinu/phpproj:v1
docker container ls
```

```
root@proj-master:~# docker container ls
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
1587da3f55ca   srinu/phpproj:v1 "apachectl -D FOREGR..." 29 minutes ago Up 29 minutes 0.0.0.0:49154->80/tcp, :::49154->80/tcp tender_lehmann
```

ports--**49154** number opened in Browser

Simple PHP Website

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Home

This is **home** Welcome to test project -- this content is in file -- content/home.php Feel free to edit it and check in git to test the CI/CD flow

It is a long established fact that no one reads this and I may add anything and reader will be distracted by the readable content of a page when looking at its layout. The point of using Lorem Ipsum is that it has a more-or-less normal distribution of letters, as opposed to using 'Content here, content here', making it look like readable English. Many desktop publishing packages and web page editors now use Lorem Ipsum as their default model text, and a search for 'lorem ipsum' will uncover many web sites still in their infancy. Various versions have evolved over the years, sometimes by accident, sometimes on purpose (injected humour and the like).

*Thank
you*

