

DEVOPS PROJECT-1

BY
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You have been hired as a Sr. DevOps Engineer in Abode Software. They want to implement DevOps Lifecycle in their company. You have been asked to implement this lifecycle as fast as possible. Abode Software is a product-based company and their product is available on this GitHub link.

<https://github.com/hshar/website.git>

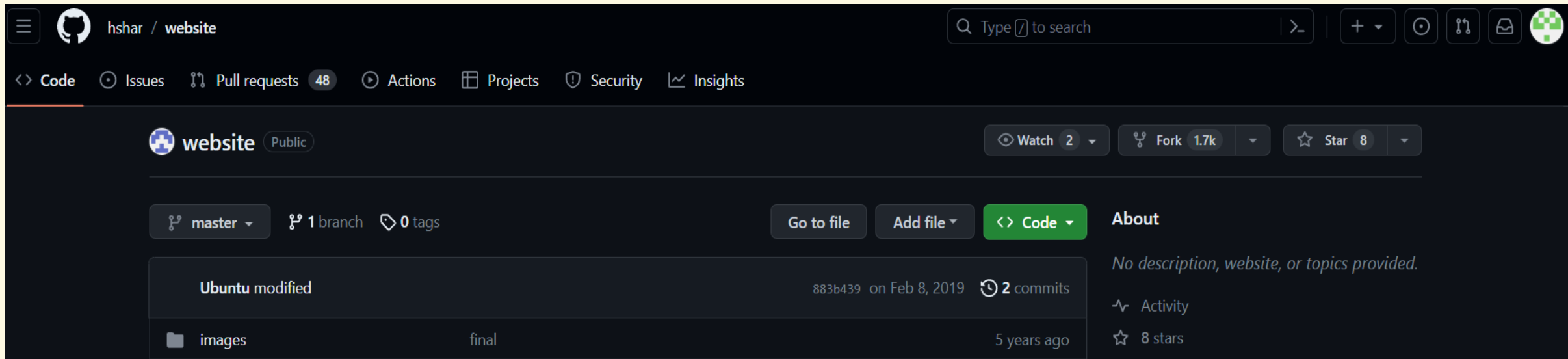
Following are the specifications of the lifecycle:

1. Install the necessary software on the machines using a configuration management tool
2. Git workflow has to be implemented
3. CodeBuild should automatically be triggered once a commit is made to master branch or develop branch.
 - a. If a commit is made to master branch, test and push to prod
 - b. If a commit is made to develop branch, just test the product, do not push to prod
4. The code should be containerized with the help of a Dockerfile. The Dockerfile should be built every time there is a push to GitHub. Use the following pre-built container for your application: hshar/webapp
The code should reside in '/var/www/html'
5. The above tasks should be defined in a Jenkins Pipeline with the following jobs:
 - a. Job1 : build
 - b. Job2 : test
 - c. Job3 : prod

You have been hired as a Sr. DevOps Engineer in Abode Software. They want to implement DevOps Lifecycle in their company. You have been asked to implement this lifecycle as fast as possible. Abode Software is a product-based company and their product is available on this GitHub link.

<https://github.com/hshar/website.git>

First initially we need to get the software from the given github link to our own GitHub repositories



The screenshot shows the GitHub interface for the repository 'hshar/website'. The repository is public and has 2 watchers, 1.7k forks, and 8 stars. The main branch is 'master', with 1 branch and 0 tags. The repository contains a file named 'images' with a commit history of 2 commits, the latest being 'Ubuntu modified' on Feb 8, 2019. The repository description is 'No description, website, or topics provided.' The repository is located at 'https://github.com/hshar/website.git'.

hshar / website

Search Type to search

<> Code Issues Pull requests 48 Actions Projects Security Insights

website Public

Watch 2 Fork 1.7k Star 8

master 1 branch 0 tags

Go to file Add file <> Code About

Ubuntu modified 883b439 on Feb 8, 2019 2 commits

images final 5 years ago

No description, website, or topics provided.

Activity

8 stars

Create a new fork

A *fork* is a copy of a repository. Forking a repository allows you to freely experiment with changes without affecting the original project. [View existing forks.](#)

Owner *



bhatpansel

Repository name *

website



By default, forks are named the same as their upstream repository. You can change the name further.

Description (optional)

☒ Copy the `master` branch only

Contribute back to hshar/website by adding your own branch. [Learn more.](#)

You are creating a fork in your personal account.

Create fork

bhatpansel / website Type to search

[Code](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

website Public Pin Watch 0

forked from [hshar/website](#)

master 1 branch 0 tags Go to file Add file Code

This branch is up to date with hshar/website:master. Contribute Sync fork

Ubuntu modified883b439 on Feb 8, 2019 2 commits

images	final	5 years ago
index.html	modified	5 years ago

Instances created for our project to do

Instances (3) Info								
<input type="text" value="Find instance by attribute or tag (case-sensitive)"/>								
<div>Instance state = running <input type="button" value="X"/> <input type="button" value="Clear filters"/></div>								
<div>< 1 > <input type="button" value="Settings"/></div>								
<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	
<input type="checkbox"/>	project-build <input type="button" value="Edit"/>	i-01f83dc80f1cce0b3	<input checked="" type="checkbox"/> Running <input type="button" value="Refresh"/> <input type="button" value="Stop"/>	t2.micro	<input checked="" type="checkbox"/> Initializing	No alarms <input type="button" value="Add"/>	us-east-1a	
<input type="checkbox"/>	project-test	i-023bdc61e64b69e83	<input checked="" type="checkbox"/> Running <input type="button" value="Refresh"/> <input type="button" value="Stop"/>	t2.micro	<input checked="" type="checkbox"/> Initializing	No alarms <input type="button" value="Add"/>	us-east-1a	
<input type="checkbox"/>	project-prod <input type="button" value="Edit"/>	i-0acd2cdb43c1a9f4f	<input checked="" type="checkbox"/> Running <input type="button" value="Refresh"/> <input type="button" value="Stop"/>	t2.micro	<input checked="" type="checkbox"/> Initializing	No alarms <input type="button" value="Add"/>	us-east-1a	

1. Install the necessary software on the machines using a configuration management tool

Installed ansible in master as per instructions in below link

https://docs.ansible.com/ansible/latest/installation_guide/installation_distros.html#installing-ansible-on-ubuntu

```
$ sudo apt update
$ sudo apt install software-properties-common
$ sudo add-apt-repository --yes --update ppa:ansible/ansible
$ sudo apt install ansible
```

```
ubuntu@ip-172-31-86-49:~$ ansible --version
ansible [core 2.12.10]
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/home/ubuntu/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3/dist-packages/ansible
  ansible collection location = /home/ubuntu/.ansible/collections:/usr/share/ansible/collections
  executable location = /usr/bin/ansible
  python version = 3.8.10 (default, Mar 13 2023, 10:26:41) [GCC 9.4.0]
  jinja version = 2.10.1
  libyaml = True
ubuntu@ip-172-31-86-49:~$
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.233.163.9 PrivateIPs: 172.31.86.49

Generated key pair in master

```
ubuntu@ip-172-31-86-49:~$ ssh-keygen
Generating public/private rsa key pair.
Enter file in which to save the key (/home/ubuntu/.ssh/id_rsa):
Enter passphrase (empty for no passphrase):
Enter same passphrase again:
Your identification has been saved in /home/ubuntu/.ssh/id_rsa
Your public key has been saved in /home/ubuntu/.ssh/id_rsa.pub
The key fingerprint is:
SHA256:3xYI74kWV6rPtODLEH7y/S2+RMFv76Caz+jM96pla0U ubuntu@ip-172-31-86-49
The key's randomart image is:
+---[RSA 3072]-----+
|
|      .
|     . o .
|    o * E
|   S * +.
|  . . . O + o.
| + o = * =..
|  * * X+=.+
| +.XO%B+ .
+-----[SHA256]-----+
ubuntu@ip-172-31-86-49:~$
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.233.163.9 PrivateIPs: 172.31.86.49

Copy public key generated in master to authorized_keys file in test and prod

```
ubuntu@ip-172-31-92-228:~/.ssh$ cat authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAz7oz7tNvuz+tjL59iR2ld1+5QMpLtEG40
9JJHesPwD7w1AAfYVtHiWTwU4i9hBvzwnp3z3nCVHubhbQh9lKchijLJFVceJ/shGJAjKJqK
x4xq/5QAogWl3XhrhriTZAXeRtmOxZGRn0Nf module10key

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQBgQDegDvL4LVJrefvLevqbFYRdB5RcSp85F/u
+iZNDNZre4yqnnFsVu0/spZkBfK1+hecvQrF+30czZkfHVjKqyA60I5rJ6XimqKmkCxDPzE
oMPG2KBYayLIhp9W0jwan+jQqnmOOLtyjXzCm5vZv0MY6PETS1R60lfxO+G9nnCLnyuq72+d
xMeZHZG//z39Fgc56vWdYP0uP++f5dq3efs= ubuntu@ip-172-31-86-49
ubuntu@ip-172-31-92-228:~/.ssh$
```

i-0acd2cdb43c1a9f4f (project-prod)

PublicIPs: 3.85.131.37 PrivateIPs: 172.31.92.228

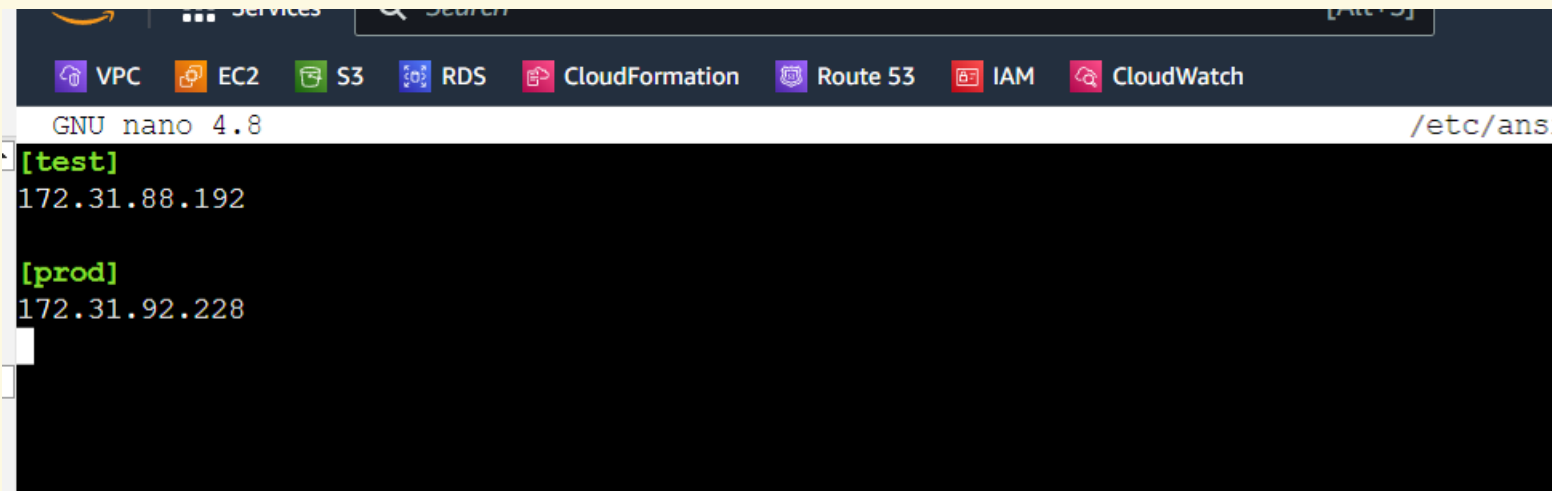
```
ubuntu@ip-172-31-88-192:~/.ssh$ cat authorized_keys
ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQAz7oz7tNvuz+tjL59iR2ld1+5QMpLtEG40
9JJHesPwD7w1AAfYVtHiWTwU4i9hBvzwnp3z3nCVHubhbQh9lKchijLJFVceJ/shGJAjKJqK
x4xq/5QAogWl3XhrhriTZAXeRtmOxZGRn0Nf module10key

ssh-rsa AAAAB3NzaC1yc2EAAAADAQABAAQBgQDegDvL4LVJrefvLevqbFYRdB5RcSp85F/u
+iZNDNZre4yqnnFsVu0/spZkBfK1+hecvQrF+30czZkfHVjKqyA60I5rJ6XimqKmkCxDPzE
oMPG2KBYayLIhp9W0jwan+jQqnmOOLtyjXzCm5vZv0MY6PETS1R60lfxO+G9nnCLnyuq72+d
xMeZHZG//z39Fgc56vWdYP0uP++f5dq3efs= ubuntu@ip-172-31-86-49
ubuntu@ip-172-31-88-192:~/.ssh$
```

i-023bdc61e64b69e83 (project-test)

PublicIPs: 54.165.141.218 PrivateIPs: 172.31.88.192

Added private IP of test and prod in master host file



```
GNU nano 4.8 /etc/ansible/hosts
[+] [test]
172.31.88.192

[+] [prod]
172.31.92.228
```

Pinged all from master

```
ubuntu@ip-172-31-86-49:~$ ansible -m ping all
The authenticity of host '172.31.88.192 (172.31.88.192)' can't be established.
ECDSA key fingerprint is SHA256:16v2l1R9lOGr5RAw8lyY3SDOB+chl/hZl1m3+JopiYE.
Are you sure you want to continue connecting (yes/no/[fingerprint])? 172.31.92.228 | s
    "ansible_facts": {
      "discovered_interpreter_python": "/usr/bin/python3"
    },
    "changed": false,
    "ping": "pong"
  }
yes
172.31.88.192 | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python3"
  },
  "changed": false,
  "ping": "pong"
}
ubuntu@ip-172-31-86-49:~$
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.204.194.151 PrivateIPs: 172.31.86.49

Created Play.yaml to install softwares in master and slave by calling shell scripts

```
ubuntu@ip-172-31-86-49:~$ sudo nano play.yaml
ubuntu@ip-172-31-86-49:~$ cat play.yaml
---
- name: installing tools on master
  hosts: localhost
  become: true
  tasks:
    - name: running master.sh script
      script: master.sh
- name: installing tools in slaves
  hosts: all
  become: true
  tasks:
    - name: running slave.sh script
      script: slave.sh

ubuntu@ip-172-31-86-49:~$
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.204.194.151 PrivateIPs: 172.31.86.49

Created Master.sh to Install Java,Docker,Jenkins in master

```
ubuntu@ip-172-31-86-49:~$ sudo nano master.sh
ubuntu@ip-172-31-86-49:~$ cat master.sh
sudo apt install openjdk-11-jdk -y

sudo apt apt install docker.io -y

curl -fsSL https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key | sudo tee \
  /usr/share/keyrings/jenkins-keyring.asc > /dev/null

echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
  https://pkg.jenkins.io/debian-stable binary/ | sudo tee \
  /etc/apt/sources.list.d/jenkins.list > /dev/null

sudo apt-get update

sudo apt-get install jenkins
ubuntu@ip-172-31-86-49:~$
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.204.194.151 PrivateIPs: 172.31.86.49

Created slave.sh to install Java and Docker in test and prod

```
ubuntu@ip-172-31-86-49:~$ sudo nano slave.sh
ubuntu@ip-172-31-86-49:~$ cat slave.sh
sudo apt install openjdk-11-jdk -y

sudo apt install docker.io -y
ubuntu@ip-172-31-86-49:~$
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.204.194.151 PrivateIPs: 172.31.86.49

Ran play.yaml in master. Test n prod softwares installed

```
Some actions do not make sense in ad-hoc (include, meta, etc)
ubuntu@ip-172-31-86-49:~$ ansible-playbook play.yaml

PLAY [installing tools on master] *****

TASK [Gathering Facts] *****
ok: [localhost]

TASK [running master.sh script] *****
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.204.194.151 PrivateIPs: 172.31.86.49

```
ubuntu@ip-172-31-86-49:~$ jenkins --version
2.401.2
ubuntu@ip-172-31-86-49:~$ java --version
openjdk 11.0.19 2023-04-18
OpenJDK Runtime Environment (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1)
OpenJDK 64-Bit Server VM (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1, mixed mode, sharing)
ubuntu@ip-172-31-86-49:~$
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.204.194.151 PrivateIPs: 172.31.86.49

```
ubuntu@ip-172-31-88-192:~$ java --version
openjdk 11.0.19 2023-04-18
OpenJDK Runtime Environment (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1)
OpenJDK 64-Bit Server VM (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1, mixed mode, sharing)
ubuntu@ip-172-31-88-192:~$ docker --version
Docker version 20.10.21, build 20.10.21-0ubuntu1~20.04.2
ubuntu@ip-172-31-88-192:~$
```

i-023bdc61e64b69e83 (project-test)

PublicIPs: 44.210.130.226 PrivateIPs: 172.31.88.192

```
ubuntu@ip-172-31-92-228:~$ java --version
openjdk 11.0.19 2023-04-18
OpenJDK Runtime Environment (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1)
OpenJDK 64-Bit Server VM (build 11.0.19+7-post-Ubuntu-0ubuntu120.04.1, mixed mode, sharing)
ubuntu@ip-172-31-92-228:~$ docker --version
Docker version 20.10.21, build 20.10.21-0ubuntu1~20.04.2
ubuntu@ip-172-31-92-228:~$
```

i-0acd2cdb43c1a9f4f (project-prod)

PublicIPs: 44.202.161.201 PrivateIPs: 172.31.92.228

In Master set up git repository by cloning the forked repo.

```
ubuntu@ip-172-31-86-49:~$ git clone https://github.com/bhatpansel/website.git
Cloning into 'website'...
remote: Enumerating objects: 8, done.
remote: Total 8 (delta 0), reused 0 (delta 0), pack-reused 8
Unpacking objects: 100% (8/8), 82.67 KiB | 11.81 MiB/s, done.
ubuntu@ip-172-31-86-49:~$
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.204.194.151 PrivateIPs: 172.31.86.49

In master create a Dockerfile in the website folder to do the following tasks when executed:

- create ubuntu image with apache2 installed .
- The files in website folder will have to be copied to /var/www/html in the image.

```
ubuntu@ip-172-31-86-49:~$ sudo nano dockerfile
ubuntu@ip-172-31-86-49:~$ cat dockerfile
FROM ubuntu
RUN apt update
RUN apt install apache2 -y
ADD . /var/www/html
ENTRYPOINT apachectl -D FOREGROUND
ubuntu@ip-172-31-86-49:~$
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.204.194.151 PrivateIPs: 172.31.86.49

Commit Dockerfile

```
ubuntu@ip-172-31-86-49:~$ git add dockerfile
ubuntu@ip-172-31-86-49:~$ git commit -m "committing dockerfile"
[master (root-commit) 1e54641] committing dockerfile
  Committer: Ubuntu <ubuntu@ip-172-31-86-49.ec2.internal>
Your name and email address were configured automatically based
on your username and hostname. Please check that they are accurate.
You can suppress this message by setting them explicitly. Run the
following command and follow the instructions in your editor to edit
your configuration file:
```

```
    git config --global --edit
```

After doing this, you may fix the identity used for this commit with:

```
    git commit --amend --reset-author
```

```
1 file changed, 5 insertions(+)
create mode 100644 dockerfile
ubuntu@ip-172-31-86-49:~$
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.204.194.151 PrivateIPs: 172.31.86.49

Create develop branch

```
ubuntu@ip-172-31-86-49:~$ git branch
    develop
* master
ubuntu@ip-172-31-86-49:~$
```

i-01f83dc80f1cce0b3 (project-build)

PublicIPs: 18.204.194.151 PrivateIPs: 172.31.86.49



Push all changes to GitHub


```
ubuntu@ip-172-31-86-49:~/website$ git push origin --all
Username for 'https://github.com': bhatpansel
Password for 'https://bhatpansel@github.com':
Enumerating objects: 4, done.
Counting objects: 100% (4/4), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 420 bytes | 420.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0)
To https://github.com/bhatpansel/website.git
  883b439..52a72b2  master -> master
* [new branch]      develop -> develop
ubuntu@ip-172-31-86-49:~/website$
```









i-01f83dc80f1cce0b3 (project-build)


PublicIPs: 18.204.194.151 PrivateIPs: 172.31.86.49

Dockerfile and develop branch visible in github





 bhatpansel / website




Type  to search

 Code  Pull requests  Actions  Projects  Wiki  Security  Insights  Settings

 **website** Public

forked from [hshar/website](#)

 Pin  Watch 0  Fork 1.7k  Star 0

 master  2 branches  0 tags

[Go to file](#) [Add file](#) [Code](#)

Switch branches/tags

Find or create a branch...

Branches

Tags



✓ master default


develop




[View all branches](#)

Commit message, or require status checks before merging. [Learn more](#)

[Protect this branch](#)

 Contribute  Sync fork


52a72b2 6 minutes ago  3 commits


 images	final	5 years ago
 dockerfile	committing dockerfile	6 minutes ago
 index.html	modified	5 years ago


Help people interested in this repository understand your project by adding a README. [Add a README](#)


About

No description, website, or topics provided.

 Activity

 0 stars

 0 watching

 1.7k forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

Languages

Create webhook in github repository (source)

Webhooks / Add webhook

We'll send a POST request to the URL below with details of any subscribed events. You can also specify which data format you'd like to receive (JSON, `x-www-form-urlencoded`, etc). More information can be found in [our developer documentation](#).

Payload URL *

Content type

Secret

Which events would you like to trigger this webhook?

- ☒ Just the push event.
- ☐ Send me **everything**.
- ☐ Let me select individual events.

☒ Active

We will deliver event details when this hook is triggered.

Browse to jenkins url - public ip of master:8080 and install suggested plugins and configure

Getting Started

Getting Started

<input type="radio"/> Folders Plugin	<input type="radio"/> OWASP Markup Formatter Plugin	<input type="radio"/> Build Timeout	<input type="radio"/> Credentials Binding Plugin
<input type="radio"/> Timestampers	<input type="radio"/> Workspace Cleanup	<input type="radio"/> Ant	<input type="radio"/> Gradle
<input type="radio"/> Pipeline	<input type="radio"/> GitHub Branch Source	<input type="radio"/> Pipeline: GitHub Groovy Libraries	<input type="radio"/> Pipeline: Stage View
<input type="radio"/> Git	<input type="radio"/> SSH Build Agents	<input type="radio"/> Matrix Authorization Strategy	<input type="radio"/> PAM Authentication
<input type="radio"/> LDAP	<input type="radio"/> Email Extension	<input type="radio"/> Mailer	

Pipeline: Stage Tags Metadata

** Pipeline: Stage Tags Metadata

** Git client

** Pipeline: Input Step

** Pipeline: Declarative

Pipeline

** Java JSON Web Token (JJWT)

** OkHttp

** GitHub API

Git

** GitHub

GitHub Branch Source

Pipeline: GitHub Groovy Libraries

** Pipeline Graph Analysis

** Pipeline: REST API

Pipeline: Stage View

Git

SSH Build Agents

Matrix Authorization Strategy

PAM Authentication

LDAP

Email Extension

Mai

** - required dependency

Jenkins 2.401.2


Created Nodes in jenkins for test and prod

Nodes

[+ New Node](#)

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	4.07 GB	0 B	4.07 GB	0ms
	prod	Linux (amd64)	In sync	4.87 GB	0 B	4.87 GB	26ms
	test	Linux (amd64)	In sync	4.92 GB	0 B	4.92 GB	59ms
Data obtained		0.26 sec	0.26 sec	0.26 sec	0.26 sec	0.26 sec	0.26 sec










Created 3 jobs in jenkins

 Add description

All

cicd pipeline project



S	W	Name ↓	Last Success	Last Failure	Last Duration	
		job1	46 min #5	47 min #4	1.1 sec	
		job2	40 min #4	42 min #2	1.1 sec	
		job3	39 min #1	N/A	7.1 sec	

Icon: S M **L**

Icon legend

 Atom feed for all


 Atom feed for failures

 Atom feed for just latest builds

Job1 - it executes Dockerfile and installs the website (from develop branch) to the container. This is triggered when there is change in develop branch in Github repo.


If a commit is made to develop branch, just test the product, do not push to prod

General


Enabled 

Description


[Plain text] [Preview](#)


☐ Discard old builds 


☒ GitHub project

Project url 

https://github.com/bhatpansel/website.git/

Advanced 

☐ This project is parameterized 

☐ Throttle builds 

Save

Apply

☒ Restrict where this project can be run ?

Label Expression ?

test

Label **test** matches 1 node. Permissions or other restrictions provided by plugins may further reduce that list.

Advanced ▾

Source Code Management

☐ None

☒ Git ?

Repositories ?

Repository URL ?

https://github.com/bhatpansel/website.git

Credentials ?

- none -

Save

Apply

Build Triggers

- ☐ Trigger builds remotely (e.g., from scripts) ?
- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☒ GitHub hook trigger for GITScm polling ?

When Jenkins receives a GitHub push hook, GitHub Plugin checks to see whether the hook came from a GitHub repository which matches the Git repository defined in SCM/Git section of this job. If they match and this option is enabled, GitHub Plugin triggers a one-time polling on GITScm. When GITScm polls GitHub, it finds that there is a change and initiates a build. The last sentence describes the behavior of Git plugin, thus the polling and initiating the build is not a part of GitHub plugin.

(from [GitHub plugin](#))

- ☐ Poll SCM ?

Build Environment

- ☐ Delete workspace before build starts
- ☐ Use secret text(s) or file(s) ?
- ☐ Add timestamps to the Console Output
- ☐ Inspect build log for published build scans

Save

Apply

- ☐ Delete workspace before build starts
- ☐ Use secret text(s) or file(s) ?
- ☐ Add timestamps to the Console Output
- ☐ Inspect build log for published build scans
- ☐ Terminate a build if it's stuck
- ☐ With Ant ?

Build Steps

☰ **Execute shell** ?



Command

See [the list of available environment variables](#)

```
sudo docker rm -f $(sudo docker ps -a -q)
sudo docker build /home/ubuntu/jenkins/workspace/job-1/ -t test1
sudo docker run -itd -p 85:80 test1
```

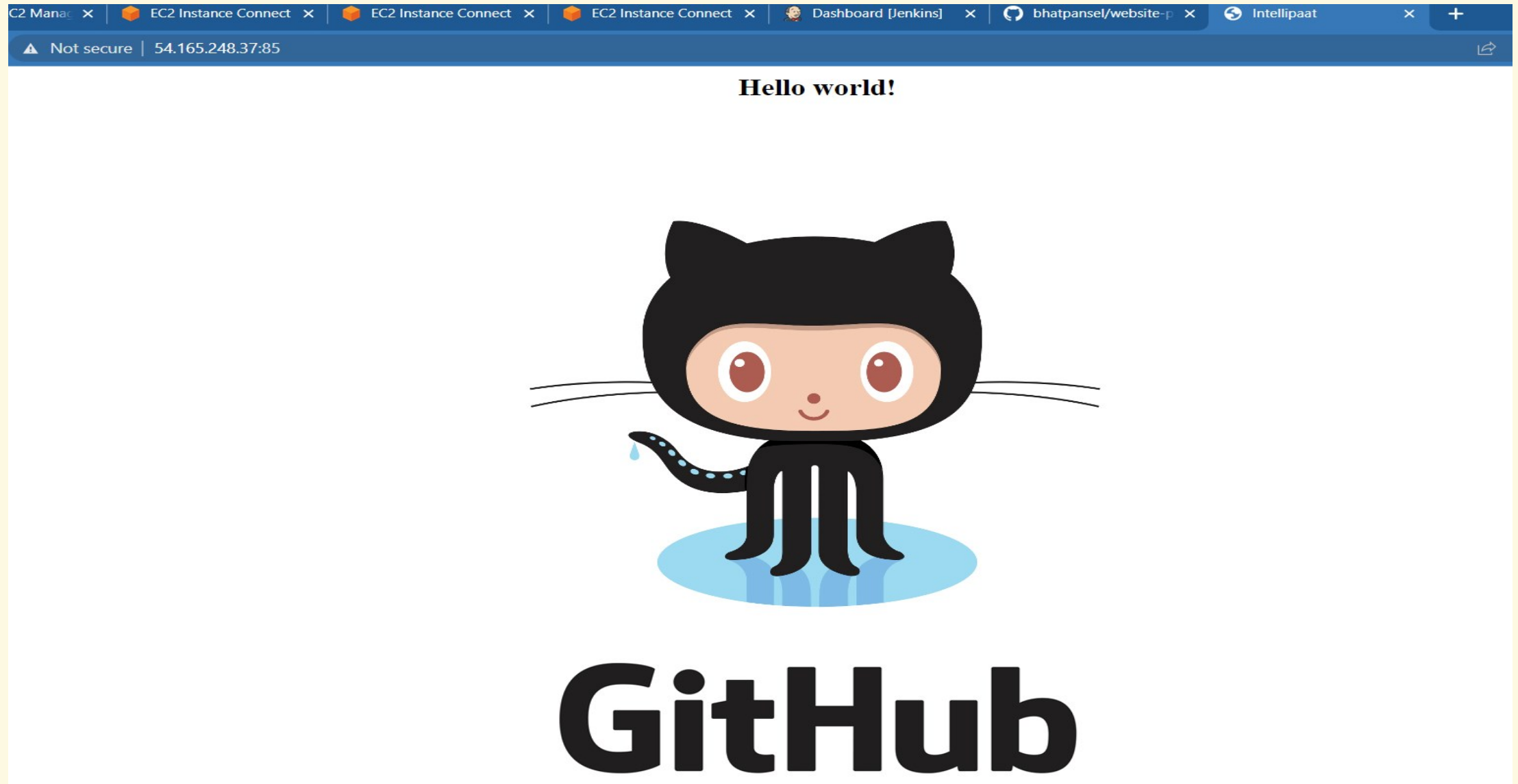
Save

Apply

Job 2 - it executes Dockerfile and installs the website (from master branch) to the container created in test. This is triggered when there is change in master branch in Github repo.

Job 3 - it executes Dockerfile and installs the website (from master branch) to the container created in test pushed to prod. This is triggered when there is change in master branch in Github repo.

Execute Job1 manually. This shows original html page in container before making change in develop branch.



We are editing the index.html in develop branch in build server it directly triggers the test server of the job1 in Jenkins.

```
ubuntu@ip-172-31-80-188:~/website-project$ sudo nano index.html
ubuntu@ip-172-31-80-188:~/website-project$ cat index.html
<html>
<head>
<title> Intellipaat </title>
</head>
<body style = "background-image:url('images/github3.jpg'); background-size: 100%">
<h2 ALIGN=CENTER>Hello world!this gonna trigger the test slave! </h2>
</body>
</html>
ubuntu@ip-172-31-80-188:~/website-project$
```

i-09d41749a3acd6589 (project-build)

PublicIPs: 44.201.219.116 PrivateIPs: 172.31.80.188

Project job1

Permalinks

- [Last build \(#6\), 4 min 44 sec ago](#)
- [Last stable build \(#6\), 4 min 44 sec ago](#)
- [Last successful build \(#6\), 4 min 44 sec ago](#)
- [Last failed build \(#4\), 2 hr 4 min ago](#)
- [Last unsuccessful build \(#4\), 2 hr 4 min ago](#)
- [Last completed build \(#6\), 4 min 44 sec ago](#)

Project job1

Permalinks


- [Last build \(#7\), 11 sec ago](#)
- [Last stable build \(#7\), 11 sec ago](#)
- [Last successful build \(#7\), 11 sec ago](#)
- [Last failed build \(#4\), 2 hr 8 min ago](#)
- [Last unsuccessful build \(#4\), 2 hr 8 min ago](#)
- [Last completed build \(#7\), 11 sec ago](#)

Hello hello world!this gonna trigger the test slave!



GitHub


We are editing the index.html in master branch in build server it directly triggers the test server of the job2 in Jenkins and push in to prod server we can see in cicd pipeline.


 **Jenkins**


Search (CTRL+K) ? 1 bhat log out


Dashboard > cicd pipeline project >


Build Pipeline: project


 Trigger a Pipeline Run

 Pipeline History History

 Configure Configure

 Add Step Add Step

 Delete

 Manage

Pipeline #4

#4 job2

Jul 4, 2023 5:13:58 AM

1.1 sec

bhat

console re-run

job3

N/A

N/A

trigger

Dashboard > cicd pipeline project >

Build Pipeline: project

AFTER



-  Trigger a Pipeline
Run
-  Pipeline History
History
-  Configure
Configure
-  Add Step
Add Step
-  Delete
Delete
-  Manage
Manage

Pipeline
#6

#6 job2

Jul 4, 2023 7:32:22 AM



1.5 sec

 console  re-run

#5 job3

Jul 4, 2023 7:32:32 AM

2.2 sec

 console  re-run

The image features a minimalist design on a light cream background. On the left, a thick orange line forms a U-shape. Above it, two thick red lines intersect the orange line at a right angle, with a small black dot at the intersection point. On the right, a thick red line curves upwards, with a small black dot on its vertical segment. At the bottom right, a large, solid green circle is partially visible.

**Thank
you**