

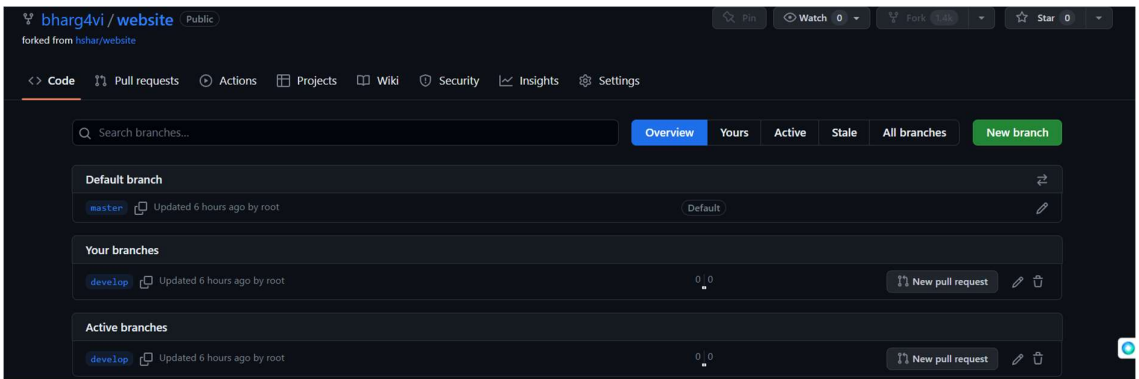
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Capstone Project

1. Git Workflow has to be implemented:

To implement the gitflow I’ve created two branches master and develop. All the development changes will be committed to develop branch. Once the development is completed the changes made will be pushed to master branch.




Create three instances called main, prod and test, install jenkins and configure inbound rules in both of them:




<input type="checkbox"/>	Name ▾	Instance ID	Instance state ▾	Instance type ▾	Status check	Alarm status	Availability Zone ▾	Public IPv4 DNS ▾
<input type="checkbox"/>	sonar	i-0b312e08961a9b54a	⏸ Stopped	t2.micro	–	No alarms +	us-east-1b	–
<input type="checkbox"/>	main	i-0fc408c2b0e079567	🟢 Running	t2.micro	🟢 2/2 checks passed	No alarms +	us-east-1b	ec2-54-167-222-97.co...
<input type="checkbox"/>	test	i-050c0755e2bc17906	🟢 Running	t2.micro	🟢 2/2 checks passed	No alarms +	us-east-1b	ec2-3-87-71-151.comp...
<input type="checkbox"/>	prod	i-03a8a00dd9f158175	🟢 Running	t2.micro	🟢 2/2 checks passed	No alarms +	us-east-1b	ec2-44-212-22-182.co...

Create two agents as test and prod and connect it to test and prod instance respectively instance:

← → ↻ ⚠ Not secure | 54.167.222.97:8080/computer/test/

 **Jenkins**

Search (CTRL+K) ?

 1  bharg4vi  log out

Dashboard > Nodes > test

Status

Delete Agent

Configure

Build History

Load Statistics

Agent test


Mark this node temporarily offline ?

Add description




Agent is connected.

Projects tied to test

← → ↻ ⚠ Not secure | 54.167.222.97:8080/manage/computer/prod/

 **Jenkins**

Search (CTRL+K) ?

 2  bharg4vi  log out

Dashboard > Manage Jenkins > Nodes > prod

Status

Delete Agent

Configure

Build History

Load Statistics

Agent prod


Mark this node temporarily offline ?

Add description




Agent is connected.

Projects tied to prod

← → ↻ ⚠ Not secure | 54.167.222.97:8080/manage/computer/

 **Jenkins**

Search (CTRL+K) ?

 2  bharg4vi  log out

Dashboard > Manage Jenkins > Nodes >

Clouds

Node Monitoring

Build Queue







No builds in the queue.

Build Executor Status

built-in node + 2 agents (0 of 4 executors busy)

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	3.43 GB	 0 B	3.43 GB	0ms
	prod	Linux (amd64)	In sync	4.07 GB	 0 B	4.07 GB	42ms
	test	Linux (amd64)	In sync	3.05 GB	 0 B	3.05 GB	42ms
Data obtained		16 min	16 min	16 min	16 min	16 min	16 min

REST API Jenkins 2.401

2. Code Build should automatically be triggered once commit is made to master branch or develop branch.

If commit is made to master branch, test and push to prod

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

```
aws Services Search [Alt+S]
Learn more about enabling ESM Apps service at https://ubuntu.com/esm

*** System restart required ***
Last login: Sun Apr 23 13:53:31 2023 from 18.206.107.28
ubuntu@ip-172-31-81-220:~$ ls
agent.jar  get-docker.sh  jenkins  secret-file  website
ubuntu@ip-172-31-81-220:~$ cd website/
-bash: cd: website/: No such file or directory
ubuntu@ip-172-31-81-220:~$ cd website/
ubuntu@ip-172-31-81-220:~$ cd website$ cd
ubuntu@ip-172-31-81-220:~$ cd /home/ubuntu/website
ubuntu@ip-172-31-81-220:~/website$ echo 1404b63e81cb8481c04f399e066eb3044532aeb6fd5de2db54c534045ccaa90c > secret-file
curl -sO http://54.167.222.97:8080/jnlpJars/agent.jar
java -jar agent.jar -jnlpUrl http://54.167.222.97:8080/computer/test/jenkins-agent.jnlp -secret @secret-file -workDir "/home/ubuntu/jenkins"
Apr 23, 2023 3:01:00 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /home/ubuntu/jenkins/remoting as a remoting work directory
Apr 23, 2023 3:01:00 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Both error and output logs will be printed to /home/ubuntu/jenkins/remoting
Apr 23, 2023 3:01:01 PM hudson.remoting.jnlp.Main createEngine
INFO: Setting up agent: test
Apr 23, 2023 3:01:01 PM hudson.remoting.Engine startEngine
INFO: Using Remoting version: 3107.v665000b_51092
Apr 23, 2023 3:01:01 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /home/ubuntu/jenkins/remoting as a remoting work directory
Apr 23, 2023 3:01:01 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: WebSocket connection open
Apr 23, 2023 3:01:01 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connected
1

i-050c0755e2bc17906 (test)
PublicIPs: 3.87.71.151 PrivateIPs: 172.31.81.220
```

```
aws Services Search [Alt+S]
Expanded Security Maintenance for Applications is not enabled.

36 updates can be applied immediately.
18 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Sun Apr 23 13:56:51 2023 from 18.206.107.29
ubuntu@ip-172-31-93-239:~$ echo 127a3939562577ef7a3cbbc3c517b49d06d73d870f05fbc3bb2620d09c1f02b6 > secret-file
curl -sO http://54.167.222.97:8080/jnlpJars/agent.jar
java -jar agent.jar -jnlpUrl http://54.167.222.97:8080/computer/prod/jenkins-agent.jnlp -secret @secret-file -workDir "/home/ubuntu/jenkins/"
Apr 23, 2023 2:27:34 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /home/ubuntu/jenkins/remoting as a remoting work directory
Apr 23, 2023 2:27:35 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Both error and output logs will be printed to /home/ubuntu/jenkins/remoting
Apr 23, 2023 2:27:35 PM hudson.remoting.jnlp.Main createEngine
INFO: Setting up agent: prod
Apr 23, 2023 2:27:36 PM hudson.remoting.Engine startEngine
INFO: Using Remoting version: 3107.v665000b_51092
Apr 23, 2023 2:27:36 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /home/ubuntu/jenkins/remoting as a remoting work directory
Apr 23, 2023 2:27:36 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: WebSocket connection open
Apr 23, 2023 2:27:36 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connected

i-03a8a00dd9f158175 (prod)
PublicIPs: 44.212.22.182 PrivateIPs: 172.31.93.239
```

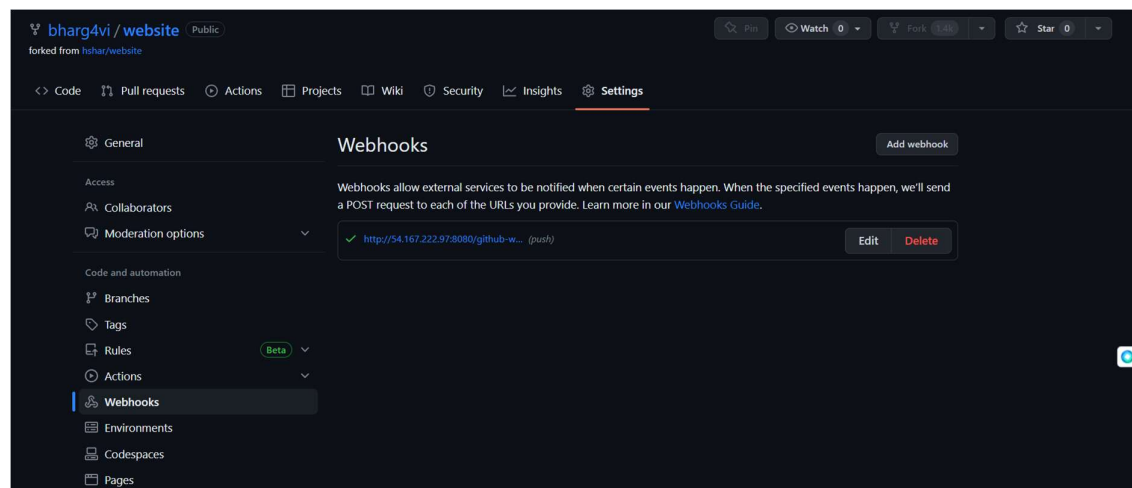
Clone given repo in the test instance:

```

Last login: Sat Apr 22 12:20:43 2023 from 18.206.107.27
ubuntu@ip-172-31-81-220:~$ sudo git init
hint: Using 'master' as the name for the initial branch. This default branch name
hint: is subject to change. To configure the initial branch name to use in all
hint: of your new repositories, which will suppress this warning, call:
hint:
hint:   git config --global init.defaultBranch <name>
hint:
hint: Names commonly chosen instead of 'master' are 'main', 'trunk' and
hint: 'development'. The just-created branch can be renamed via this command:
hint:
hint:   git branch -m <name>
Initialized empty Git repository in /home/ubuntu/.git/
ubuntu@ip-172-31-81-220:~$ sudo git clone https://github.com/bharg4vi/website.git
Cloning into 'website'...
remote: Enumerating objects: 8, done.
remote: Total 8 (delta 0), reused 0 (delta 0), pack-reused 8
Receiving objects: 100% (8/8), 82.69 KiB | 11.81 MiB/s, done.
Resolving deltas: 100% (1/1), done.
ubuntu@ip-172-31-81-220:~$ ls
agent.jar  jenkins  secret-file  website
ubuntu@ip-172-31-81-220:~$

```

Add webhook to your project on github:



Create first job to check the web-hook:

← → ↻ Not secure | 54.167.222.97:8080/job/test-webhook/configure

Dashboard > test-webhook > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

☐ Discard old builds ?

☒ GitHub project

Project url ?

Advanced ▾

☐ This project is parameterized ?

☐ Throttle builds ?

☐ Execute concurrent builds if necessary ?

☒ Restrict where this project can be run ?

Label Expression ?

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

Save Apply

← → ↻ Not secure | 54.167.222.97:8080/job/test-webhook/configure

Dashboard > test-webhook > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Git ?

Repositories ?

Repository URL ?

Credentials ?

Add ▾

Advanced ▾

Add Repository

← → ↻ Not secure | 54.167.222.97:8080/job/test-webhook/configure

Dashboard > test-webhook > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Build Triggers

☐ Trigger builds remotely (e.g., from scripts) ?

☐ Build after other projects are built ?

☐ Build periodically ?

☒ GitHub hook trigger for GITScm polling ?

☐ Poll SCM ?

Build Environment

☐ Delete workspace before build starts

☐ Use secret text(s) or file(s) ?

☐ Add timestamps to the Console Output

Save Apply

The screenshot shows the Jenkins 'Agent test' page for a node named 'test'. The left sidebar contains links for Status, Delete Agent, Configure, Build History, Load Statistics, Script Console, Log, and System Information. The main area shows 'Agent is connected.' and a table of 'Projects tied to test'.

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀	test-webhook	14 min #1	N/A	11 sec

Below the table, there are links for 'Icon: S M L', 'Icon legend', and three Atom feed links: 'Atom feed for all', 'Atom feed for failures', and 'Atom feed for just latest builds'.

At the bottom, the 'Build Executor Status' section shows '1 Idle'.

Webhook is tested successfully.

We now try changing content in the repository and start the build:

The screenshot shows the Jenkins 'Console Output' for a build named 'test-webhook #2'. The left sidebar contains links for Edit Build Information, Delete build '#2', Polling Log, Git Build Data, and Previous Build. The main area displays the build log, which shows the successful cloning of a Git repository and the execution of a shell script.

```

No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/bharg4vi/website.git
> git init /home/ubuntu/jenkins/workspace/test-webhook # timeout=10
Fetching upstream changes from https://github.com/bharg4vi/website.git
> git --version # timeout=10
> git --version # 'git version 2.34.1'
> git fetch --tags --force --progress -- https://github.com/bharg4vi/website.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/bharg4vi/website.git # timeout=10
> git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git rev-parse refs/remotes/origin/master^{commit} # timeout=10
Checking out Revision 52818f72afedd90ea6a6758ed2957ce3dc310ec (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
> git checkout -f 52818f72afedd90ea6a6758ed2957ce3dc310ec # timeout=10
Commit message: "changes"
> git rev-list --no-walk 883b439379efd36970896f7c57d09e9cb6460a9a # timeout=10
[test-webhook] $ /bin/sh -xe /tmp/jenkins1590824785296724337.sh
+ echo working
working
[test-webhook] $ /bin/sh -xe /tmp/jenkins4783731605834834862.sh
Finished: SUCCESS
  
```

The build was successful.

3. The Code should be containerized with the help of a Dockerfile. The Dockerfile should be built every time there is a push to Git-Hub. Use the following pre-built container for your application:

hshar/webapp

The code should reside in '/var/www/html':

We will now create a branch develop and make changes to the same:

Create a docker file and commit it to git reposit:

```
ubuntu@ip-172-31-81-220:~/website$ sudo git branch
* master
ubuntu@ip-172-31-81-220:~/website$ sudo git branch develop
ubuntu@ip-172-31-81-220:~/website$ sudo git branch
develop
* master
ubuntu@ip-172-31-81-220:~/website$ sudo git checkout develop
M       index.html
Switched to branch 'develop'
ubuntu@ip-172-31-81-220:~/website$ sudo nano dockerfile
```

```
GNU nano 6.2
FROM hshar/webapp
ADD ./var/www/html
```

```
ubuntu@ip-172-31-81-220:~/website$ sudo git add .
ubuntu@ip-172-31-81-220:~/website$ sudo commit -m "added dockerfile"
sudo: commit: command not found
ubuntu@ip-172-31-81-220:~/website$ sudo git commit -m "added dockerfile"
[develop 0d68d9a] added dockerfile
Committer: root <root@ip-172-31-81-220.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

2 files changed, 3 insertions(+), 1 deletion(-)
create mode 100644 dockerfile
```

Edit the build inserting develop branch to build:

Dashboard > test-webhook > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Branches to build ?

Branch Specifier (blank for 'any') ?

*/master

Branch Specifier (blank for 'any') ?

*/develop

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Save Apply

Push the file and start the build:

← → ↻ Not secure | 54.167.222.97:8080/job/test-webhook/lastSuccessfulBuild/console

Dashboard > test-webhook > #3 > Console Output

- Edit Build Information
- Delete build '#3'
- Git Build Data
- Previous Build

```
building remotely on test in workspace /home/ubuntu/jenkins/workspace/test-webhook
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /home/ubuntu/jenkins/workspace/test-webhook/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/bharg4vi/website.git # timeout=10
Fetching upstream changes from https://github.com/bharg4vi/website.git
> git --version # timeout=10
> git --version # 'git version 2.34.1'
> git fetch --tags --force --progress -- https://github.com/bharg4vi/website.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
Seen branch in repository origin/develop
Seen branch in repository origin/master
Seen 2 remote branches
> git show-ref --tags -d # timeout=10
Checking out Revision 0d68d9a13a09bbe789c73003975c2151e681842 (origin/develop)
> git config core.sparsecheckout # timeout=10
> git checkout -f 0d68d9a13a09bbe789c73003975c2151e681842 # timeout=10
Commit message: "added dockerfile"
First time build. Skipping changelog.
[test-webhook] $ /bin/sh -xe /tmp/jenkins11105478729263611564.sh
+ echo working
working
[test-webhook] $ /bin/sh -xe /tmp/jenkins553788212437531394.sh
Finished: SUCCESS
```

It was successfully built.

Create a new job to build website:

← → ↻ Not secure | 54.167.222.97:8080/job/build/configure

Dashboard > build > Configuration

Configure

[Plain text] [Preview](#)

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

☐ Discard old builds ?

☒ GitHub project

Project url ?

Advanced ▾

☐ This project is parameterized ?

☐ Throttle builds ?

☐ Execute concurrent builds if necessary ?

☐ Restrict where this project can be run ?

Advanced ▾

[Save](#) [Apply](#)

← → ↻ ⚠ Not secure | 54.167.222.97:8080/job/build/configure

Dashboard > build > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps**
- Post-build Actions

Build Steps

Execute shell ?

Command

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

```
sudo usermod -aG docker jenkins
sudo docker rm -f $(sudo docker ps -a -q)
sudo docker build /home/ubuntu/website/. -t test
sudo docker run -it -p 82:80 -d test
```

Advanced ▾

Add build step ▾

Save Apply

Instance: i-050c0755e2bc17906 (test)

Hostname type IP name: ip-172-31-81-220.ec2.internal	Private IP DNS name (IPv4 only) ip-172-31-81-220.ec2.internal	
Answer private resource DNS name IPv4 (A)	Instance type t2.micro	Elastic IP addresses -
Auto-assigned IP address 3.87.71.151 [Public IP]	VPC ID vpc-06181722d56efb5c6	AWS Compute Optimizer finding Opt-in to AWS Compute Optimizer for recommendations. Learn more
IAM Role -	Subnet ID subnet-06a476584030fece7	Auto Scaling Group name -
IMDSv2 Optional		
▼ Instance details Info		
Platform	AMI ID	Monitoring

← → ↻ ⚠ Not secure | 3.87.71.151:82

Hi world!



GitHub

It was built successfully.

Create a job to test-job:

The first screenshot shows the 'Configure' page for the 'test-job' in Jenkins. The 'General' tab is selected. The 'Discard old builds' checkbox is unchecked. The 'GitHub project' checkbox is checked. The 'Project url' is set to 'https://github.com/bharg4vi/website.git'. The 'Advanced' dropdown is expanded. The 'This project is parameterized' checkbox is unchecked. The 'Throttle builds' checkbox is unchecked. The 'Execute concurrent builds if necessary' checkbox is unchecked. The 'Restrict where this project can be run' checkbox is checked. The 'Label Expression' is set to 'prod'. A message below the label expression states: 'Label prod matches 1 node. Permissions or other restrictions provided by plugins may further reduce that list.' The 'Save' and 'Apply' buttons are at the bottom.

The second screenshot shows the 'Configure' page for the 'test-job' in Jenkins. The 'Source Code Management' tab is selected. The 'Git' checkbox is checked. The 'Repositories' section is expanded. The 'Repository URL' is set to 'https://github.com/bharg4vi/website.git'. The 'Credentials' dropdown is set to '- none -'. The 'Add' button is visible. The 'Advanced' dropdown is expanded. The 'Add Repository' button is at the bottom of the 'Repositories' section. The 'Branches to build' section is visible below. The 'Save' and 'Apply' buttons are at the bottom.

Create a job to test the website:

← → ↻ ⚠ Not secure | 54.167.222.97:8080/job/test-website/configure

Jenkins 🔍 Search (CTRL+K) 🛡 2 👤 bharg4vi 🚪 log out

Dashboard > test-website > Configuration

Configure

- ⚙ General
- 🔑 Source Code Management
- 🕒 Build Triggers
- 🌐 Build Environment
- 📋 Build Steps
- 📦 Post-build Actions

General

Enabled

Description

[Plain text] [Preview](#)

☐ Discard old builds ?

☒ **GitHub project**

Project url ?

https://github.com/bharg4vi/website.git/

Save **Apply**

← → ↻ ⚠ Not secure | 54.167.222.97:8080/job/test-website/configure

Dashboard > test-website > Configuration

Configure

- ⚙ General
- 🔑 **Source Code Management**
- 🕒 Build Triggers
- 🌐 Build Environment
- 📋 Build Steps
- 📦 Post-build Actions

Source Code Management

Branches to build ?

Branch Specifier (blank for 'any') ?

*/master

Branch Specifier (blank for 'any') ?

*/develop

Add Branch

Repository browser ?

(Auto) ▼

Additional Behaviours

Save **Apply**

Dashboard > test-website > Configuration

Configure

- ⚙ General
- 🔑 Source Code Management
- 🕒 Build Triggers
- 🌐 Build Environment
- 📋 **Build Steps**
- 📦 Post-build Actions

Build Steps

≡ **Execute shell** ?

Command

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

curl -Is http://44.212.22.182/ | head -1

Advanced ▼

≡ **Execute shell** ?

Command

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


Save **Apply**

Create a new job for develop branch:

← → ↻

Not secure | 54.167.222.97:8080/job/develop/configure

🔖 ☆ ⚙️ 📄 🗑️ 👤

 **Jenkins**

🔍 Search (CTRL+K) ?

🛡️ 2 👤 bharg4vi 🚪 log out

Dashboard > develop > Configuration

Configure

⚙️ General

🔗 Source Code Management


🕒 Build Triggers

🌐 Build Environment

📋 Build Steps

🏠 Post-build Actions

General

Enabled 

Description

[Plain text] [Preview](#)

☐ Discard old builds ?

☒ GitHub project

Project url ?

https://github.com/bharg4vi/website.git/


Save

Apply

← → ↻

Not secure | 54.167.222.97:8080/job/develop/configure

🔖 ☆ ⚙️ 📄 🗑️ 👤

 **Jenkins**

🔍 Search (CTRL+K) ?

🛡️ 2 👤 bharg4vi 🚪 log out

Dashboard > develop > Configuration

Configure

⚙️ General

🔗 Source Code Management

🕒 Build Triggers

🌐 Build Environment

📋 Build Steps

🏠 Post-build Actions

Advanced ▾

☐ This project is parameterized ?

☐ Throttle builds ?

☐ Execute concurrent builds if necessary ?

☒ 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

Save

Apply

Dashboard > develop > Configuration

Configure

- General
- Source Code Management**
- Build Triggers
- Build Environment
- Build Steps
- Post-build Actions

Branches to build ?

Branch Specifier (blank for 'any') ?

Add Branch

Repository browser ?

(Auto) ▼

Additional Behaviours

Add ▼

Save Apply

Dashboard > develop > Configuration

Configure

- General
- Source Code Management
- Build Triggers
- Build Environment
- Build Steps**
- Post-build Actions

Build Steps

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

```

sudo docker stop $(sudo docker ps -q)
sudo docker rm $(sudo docker ps -a -q)
sudo docker build /home/ubuntu/website -t test1
sudo docker run -it -p 82:80 -d test1

```

Advanced ▼

Add build step ▼

Post-build Actions

Add post-build action ▼

Save Apply

4. The above tasks should be defined in a Jenkins Pipeline, with the following

Jobs Job 1 - Building Website = **build website**

Job 2 - Testing Website Job = **test-job, test website**

Job 3 - Push to Production = **develop**

Queue projects one after other in the order:

test-job → build website → test website → develop

Post-build Actions

Build other projects ?

Projects to build

build-website

☒ Trigger only if build is stable

☐ Trigger even if the build is unstable

☐ Trigger even if the build fails

Similarly other projects can be configured the same way.

Build CI/CD pipeline as mentioned below:

← → ↺

Not secure | 54.167.222.97:8080

🔗 ☆ ⚙️ 📄 🖨️ 👤

Jenkins

🔍 Search (CTRL+K) ?

🛡️ 2

👤 bharg4vi

🚪 log out

Dashboard >

+ New Item

👤 People

📅 Build History

⚙️ Manage Jenkins

📁 My Views

Build Queue

No builds in the queue.

Build Executor Status

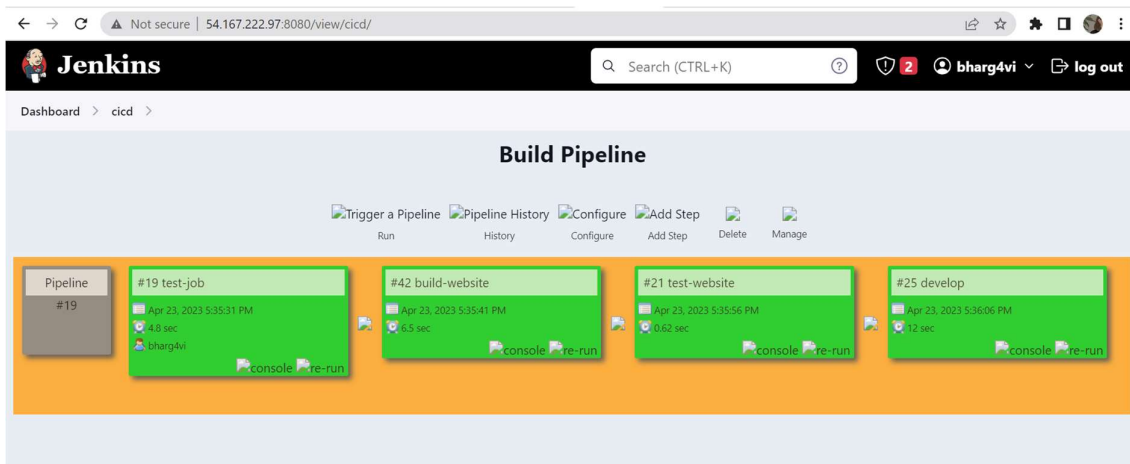
built-in node + 2 agents (0 of 4 executors busy)

All cisd +

S	W	Name	Last Success	Last Failure	Last Duration
✓	☀️	build-website	10 min #41	N/A	2 sec
✓	☀️	develop	10 min #24	N/A	11 sec
✓	☀️	test-job	13 min #18	N/A	1.3 sec
✓	☀️	test-website	10 min #20	N/A	0.43 sec

Icon: S M L Icon legend 📡 Atom feed for all 📡 Atom feed for failures 📡 Atom feed for just latest builds

Add description



This is our prod:

```
aws Services Search [Alt+S]

Expanded Security Maintenance for Applications is not enabled.
36 updates can be applied immediately.
18 of these updates are standard security updates.
To see these additional updates run: apt list --upgradable

Enable ESM Apps to receive additional future security updates.
See https://ubuntu.com/esm or run: sudo pro status

Last login: Sun Apr 23 13:56:51 2023 from 18.206.107.29
ubuntu@ip-172-31-93-239:~$ echo 127a3939562577ef7a3cbbc3e517b49d06d73d870f05fbc3bb2620d09c1f02b6 > secret-file
curl -sO http://54.167.222.97:8080/jnlpJars/agent.jar
java -jar agent.jar -jnlpUrl http://54.167.222.97:8080/computer/prod/jenkins-agent.jnlp -secret @secret-file -workDir "/home/ubuntu/jenkins/"
Apr 23, 2023 2:27:34 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /home/ubuntu/jenkins/remoting as a remoting work directory
Apr 23, 2023 2:27:35 PM org.jenkinsci.remoting.engine.WorkDirManager setupLogging
INFO: Both error and output logs will be printed to /home/ubuntu/jenkins/remoting
Apr 23, 2023 2:27:35 PM hudson.remoting.jnlp.Main createEngine
INFO: Setting up agent: prod
Apr 23, 2023 2:27:36 PM hudson.remoting.Engine startEngine
INFO: Using Remoting version: 3107.v665000b_51092
Apr 23, 2023 2:27:36 PM org.jenkinsci.remoting.engine.WorkDirManager initializeWorkDir
INFO: Using /home/ubuntu/jenkins/remoting as a remoting work directory
Apr 23, 2023 2:27:36 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: WebSocket connection open
Apr 23, 2023 2:27:36 PM hudson.remoting.jnlp.Main$CuiListener status
INFO: Connected

i-03a8a00dd9f158175 (prod)
PublicIPs: 44.212.22.182 PrivateIPs: 172.31.93.239
```

We will make changes in master branch to test our project:


```
aws Services Search [Alt+S]
ubuntu@ip-172-31-93-60:~/website$ sudo nano index.html
ubuntu@ip-172-31-93-60:~/website$ sudo git add .
ubuntu@ip-172-31-93-60:~/website$ sudo git commit -m "check"
[master ab92070] check
  Committer: root <root@ip-172-31-93-60.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, 1 insertion(+), 1 deletion(-)
ubuntu@ip-172-31-93-60:~/website$ sudo git push origin master
Username for 'https://github.com': bharg4vi
Password for 'https://bharg4vi@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 329 bytes | 329.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/bharg4vi/website.git
   8a0c4eb..ab92070  master -> master
```

```
GNU nano 6.2 index
<html>
<head>
<title> Intellipaati </title>
</head>
<body style = "background-image:url('images/github3.jpg'); background-size: 100%">
<h2 ALIGN=CENTER>Namaste !!! 202051048 Bhargavi Kamble </h2>
</body>
</html>
```

Namaste !!! 202051048 Bhargavi Kamble



GitHub

The changes can be seen.

```
ubuntu@ip-172-31-93-60:~/website$ sudo nano index.html
ubuntu@ip-172-31-93-60:~/website$ sudo git add .
ubuntu@ip-172-31-93-60:~/website$ sudo git commit -m "check"
[develop a2f600f] check
Committer: root <root@ip-172-31-93-60.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, 1 insertion(+), 1 deletion(-)
ubuntu@ip-172-31-93-60:~/website$ sudo git push origin develop
Username for 'https://github.com': bharg4vi
Password for 'https://bharg4vi@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 311 bytes | 311.00 KiB/s, done.
Total 3 (delta 2), reused 0 (delta 0), pack-reused 0
remote: Resolving deltas: 100% (2/2), completed with 2 local objects.
To https://github.com/bharg4vi/website.git
   9db6cf0..a2f600f  develop -> develop
```

```
GNU nano 6.2
<html>
<head>
<title> Intellipaat Website </title>
</head>
<body style = "background-image:url('images/github3.jpg'); background-size: 100%">
<h2 ALIGN=CENTER>Hello! This is bhargavi 202051048 </h2>
</body>
</html>
```

← → ↻ ⚠ Not secure | 44.212.22.182 🔍 📄 ☆ ⚙ 📱 🌐 ⋮

Namaste !!! 202051048 Bhargavi Kamble



Whereas for the develop branch it remained the same.

5. Since you are setting up the server for the first time, ensure the following file exists on both Test and Prod server in /home/ubuntu/config-management/status.txt. This file will be used by a third-party tool. This should basically have the info whether apache is installed on the system or not. The content of this file, should be based on whether git is installed or not. If apache is installed => "Apache is Installed on this System"
If apache is not installed => "Apache is not installed on this System"

On prod server:

```
ubuntu@ip-172-31-93-239:~$ mkdir /home/ubuntu/config-management
ubuntu@ip-172-31-93-239:~$ nano /home/ubuntu/config-management/status.txt
```

```
GNU nano 6.2 /home/ubuntu/config-man
if command -v apache2 &> /dev/null
then
    echo "Apache is Installed on this System" > /home/ubuntu/config-management/status.txt
else
    echo "Apache is not installed on this System" > /home/ubuntu/config-management/status.txt
fi
```

On test server:

```
ubuntu@ip-172-31-81-220:~$ mkdir /home/ubuntu/config-management
ubuntu@ip-172-31-81-220:~$ nano /home/ubuntu/config-management/status.txt
```

```
GNU nano 6.2 /home/ubuntu/config-managemer
if command -v apache2 &> /dev/null
then
    echo "Apache is Installed on this System" > /home/ubuntu/config-management/status.txt
else
    echo "Apache is not installed on this System" > /home/ubuntu/config-management/status.txt
fi
```

Git link: <https://github.com/bharg4vi/website.git>