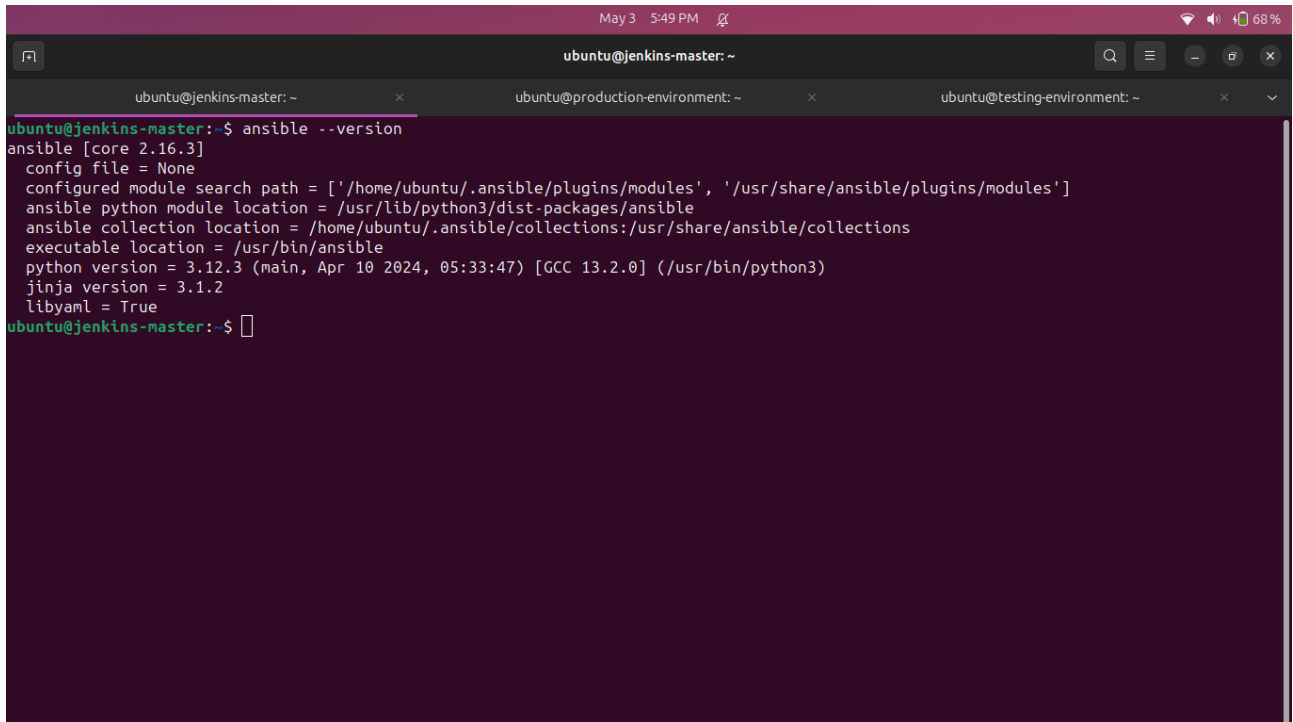
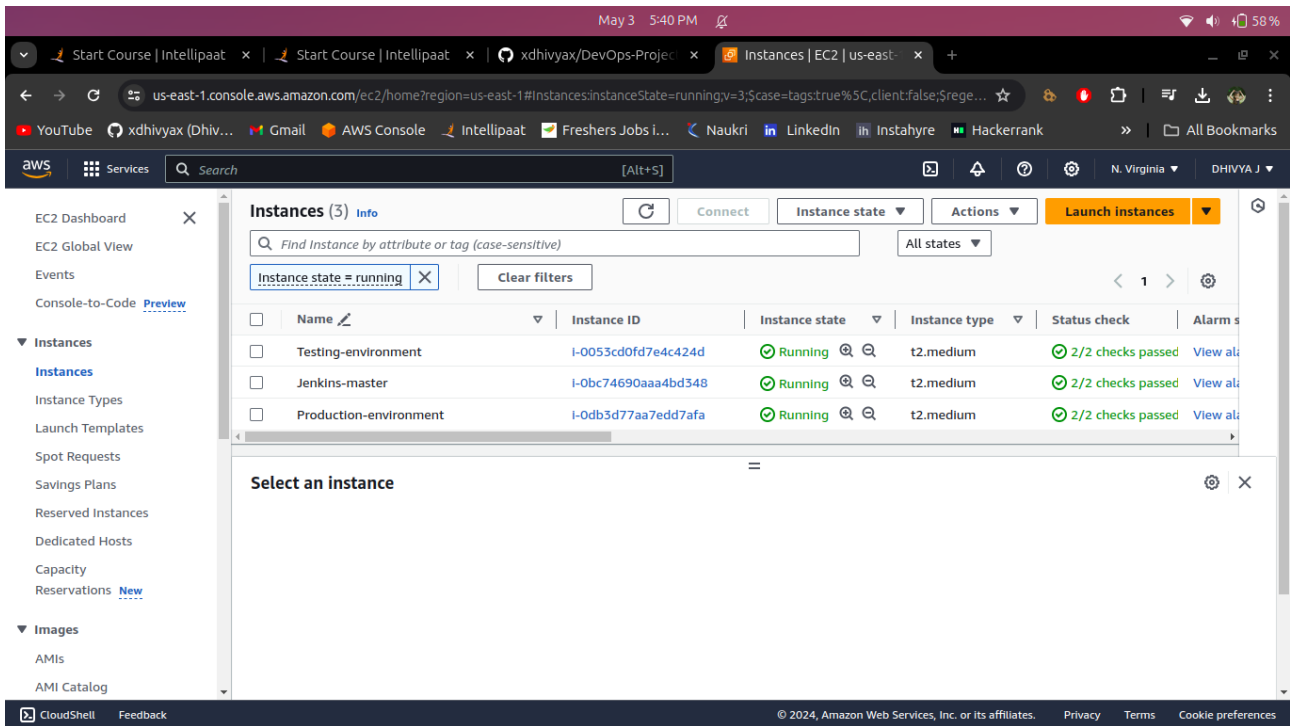


DEVOPS PROJECT 1



```
May 3 6:29 PM
ubuntu@jenkins-master: ~
ubuntu@jenkins-master: ~
ubuntu@production-environment: ~
ubuntu@testing-environment: ~

ubuntu@jenkins-master:~$ ls
DevOps-Project-1 hosts master-installation.sh node-installation.sh playbook.yaml
ubuntu@jenkins-master:~$ ansible-playbook -i hosts playbook.yaml --syntax-check

playbook: playbook.yaml
ubuntu@jenkins-master:~$ ansible-playbook -i hosts playbook.yaml

PLAY [Installation on Jenkins machine] *****
TASK [Gathering Facts] *****
ok: [localhost]
TASK [Install s/w on Jenkins machine] *****
changed: [localhost]
PLAY [Installation on testing machine] *****
TASK [Gathering Facts] *****
ok: [34.204.60.1]
TASK [Install s/w on testing machine] *****
changed: [34.204.60.1]
PLAY [Installation on production machine] *****
TASK [Gathering Facts] *****
ok: [54.83.166.109]
TASK [Install s/w on production machine] *****
changed: [54.83.166.109]
```

```
May 3 6:30 PM
ubuntu@jenkins-master: ~
ubuntu@jenkins-master: ~
ubuntu@production-environment: ~
ubuntu@testing-environment: ~

ubuntu@jenkins-master:~$
ubuntu@jenkins-master:~$ cat playbook.yaml
---
- name: Installation on Jenkins machine
  hosts: localhost
  become: true
  tasks:
    - name: Install s/w on Jenkins machine
      script: master-installation.sh
- name: Installation on testing machine
  hosts: testing
  become: true
  tasks:
    - name: Install s/w on testing machine
      script: node-installation.sh
- name: Installation on production machine
  hosts: production
  become: true
  tasks:
    - name: Install s/w on production machine
      script: node-installation.sh

ubuntu@jenkins-master:~$
```

```
May 3 6:31 PM 95%
ubuntu@jenkins-master: ~
ubuntu@jenkins-master: ~ x ubuntu@production-environment: ~ x ubuntu@testing-environment: ~ x
ubuntu@jenkins-master:~$ cat master-installation.sh
sudo apt update
sudo apt install openjdk-11-jdk -y
sudo wget -O /usr/share/keyrings/jenkins-keyring.asc \
  https://pkg.jenkins.io/debian/jenkins.io-2023.key
echo "deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc] \
  https://pkg.jenkins.io/debian binary/ | sudo tee \
  /etc/apt/sources.list.d/jenkins.list > /dev/null
sudo apt-get update
sudo apt-get install jenkins -y
ubuntu@jenkins-master:~$ cat node-installation.sh
sudo apt update
sudo apt install openjdk-11-jdk -y
sudo apt install docker.io -y
ubuntu@jenkins-master:~$ cat hosts
[testing]
34.204.60.1

[production]
54.83.166.109
ubuntu@jenkins-master:~$
```

```
May 3 6:31 PM 95%
ubuntu@jenkins-master: ~
ubuntu@jenkins-master: ~ x ubuntu@production-environment: ~ x ubuntu@testing-environment: ~ x
ubuntu@jenkins-master:~$ java --version
openjdk 11.0.23 2024-04-16
OpenJDK Runtime Environment (build 11.0.23+9-post-Ubuntu-1ubuntu1)
OpenJDK 64-Bit Server VM (build 11.0.23+9-post-Ubuntu-1ubuntu1, mixed mode, sharing)
ubuntu@jenkins-master:~$ jenkins --version
2.456
ubuntu@jenkins-master:~$
```

```
May 3 6:32 PM 95%
ubuntu@production-environment: ~
ubuntu@jenkins-master: ~ x ubuntu@production-environment: ~ x ubuntu@testing-environment: ~ x
ubuntu@production-environment:~$ java --version
openjdk 11.0.23 2024-04-16
OpenJDK Runtime Environment (build 11.0.23+9-post-Ubuntu-1ubuntu1)
OpenJDK 64-Bit Server VM (build 11.0.23+9-post-Ubuntu-1ubuntu1, mixed mode, sharing)
ubuntu@production-environment:~$ docker --version
Docker version 24.0.7, build 24.0.7-0ubuntu4
ubuntu@production-environment:~$
```

```
May 3 6:32 PM 95%
ubuntu@testing-environment: ~
ubuntu@jenkins-master: ~ x ubuntu@production-environment: ~ x ubuntu@testing-environment: ~ x
ubuntu@testing-environment:~$ java --version
openjdk 11.0.23 2024-04-16
OpenJDK Runtime Environment (build 11.0.23+9-post-Ubuntu-1ubuntu1)
OpenJDK 64-Bit Server VM (build 11.0.23+9-post-Ubuntu-1ubuntu1, mixed mode, sharing)
ubuntu@testing-environment:~$ docker --version
Docker version 24.0.7, build 24.0.7-0ubuntu4
ubuntu@testing-environment:~$
```

Jenkins

Dashboard > Manage Jenkins > Nodes

Nodes

[+ New Node](#) [Configure Monitors](#)

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	3.29 GiB	0 B	3.29 GiB	0ms
	Production	Linux (amd64)	In sync	4.15 GiB	0 B	4.15 GiB	20ms
	Testing	Linux (amd64)	In sync	4.15 GiB	0 B	4.15 GiB	39ms
Data obtained		25 sec	25 sec	25 sec	25 sec	25 sec	25 sec

Icon: S M **L**

Legend

May 3 7:23 PM

100%

Start Course | Intellipaat x xdhivay/DevOps-Proje... Instances | EC2 | us-east-... job-1 Config [Jenkins] +

Not secure 3.84.158.26:8080/job/job-1/configure

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Dashboard > Job-1 > Configuration

Configure

General

Source Code Management

Build Triggers

Build Environment

Build Steps

Post-build Actions

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

Save

Apply

May 3 7:24 PM

Start Course | Intellipaat x | xdhiviyax/DevOps-Proje... x | Instances | EC2 | us-east-... x | job-1 Config [Jenkins] x +

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Dashboard > job-1 > Configuration

Configure

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

Repositories ?

Repository URL ?
https://github.com/xdhiviyax/DevOps-Project-1.git

Credentials ?
- none -
+ Add +
Advanced v

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?
*/develop

Save Apply

May 3 7:24 PM

Start Course | Intellipaat x | xdhiviyax/DevOps-Proje... x | Instances | EC2 | us-east-... x | job-1 Config [Jenkins] x +

Not secure 3.84.158.26:8080/job/job-1/configure

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Dashboard > job-1 > Configuration

Configure

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

Repository browser ?
(Auto)

Additional Behaviours
Add v

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 ?

Save Apply

May 3 7:32 PM

Start Course | Intellipaat x Webhooks - Settings x Instances | EC2 | us-east x job-1 Config [Jenkins] x New Tab

Not secure 3.84.158.26:8080/job/job-1/configure

Dashboard > job-1 > 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 docker build $WORKSPACE -t project1-image:v1
```

Advanced ▾

Add build step ▾

Save Apply

May 3 7:32 PM

Start Course | Intellipaat x Webhooks - Settings x Instances | EC2 | us-east x job-1 Config [Jenkins] x New Tab

github.com/xdhiviyax/DevOps-Project-1/settings/hooks

xdhiviyax / DevOps-Project-1

Code Pull requests Actions Projects Wiki Security Insights **Settings**

Okay, that hook was successfully created. We sent a ping payload to test it out! Read more about it at <https://docs.github.com/webhooks/#ping-event>.

Webhooks

Add webhook

Webhooks allow external services to be notified when certain events happen. When the specified events happen, we'll send a POST request to each of the URLs you provide. Learn more in our [Webhooks Guide](#).

✓	http://3.84.158.26:8080/github-w... (push)	Edit Delete
---	--	-------------

- General
- Access
 - Collaborators
 - Moderation options ▾
- Code and automation
 - Branches
 - Tags
 - Rules ▾
 - Actions ▾
 - Webhooks**
 - Environments
 - Codespaces


```
ubuntu@jenkins-master: ~/DevOps-Project-1
ls
Dockerfile  images  index.html
ubuntu@jenkins-master:~/DevOps-Project-1$ git branch
* develop
  master
ubuntu@jenkins-master:~/DevOps-Project-1$ git push origin develop
Username for 'https://github.com': xdhivyax
Password for 'https://xdhivyax@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 2 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 403 bytes | 403.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
remote:
remote: Create a pull request for 'develop' on GitHub by visiting:
remote:   https://github.com/xdhivyax/DevOps-Project-1/pull/new/develop
remote:
To https://github.com/xdhivyax/DevOps-Project-1.git
 * [new branch]      develop -> develop
ubuntu@jenkins-master:~/DevOps-Project-1$
```

Start Course | Intellipaa | Webhooks - Settings | Instances | EC2 | us-east | job-1 #2 Console [Jenki | New Tab

3.84.158.26:8080/job/job-1/2/console

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Jenkins

Search (CTRL+K)

admin | log out

Dashboard > job-1 > #2 > Console Output

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#2'

Polling Log

Timings

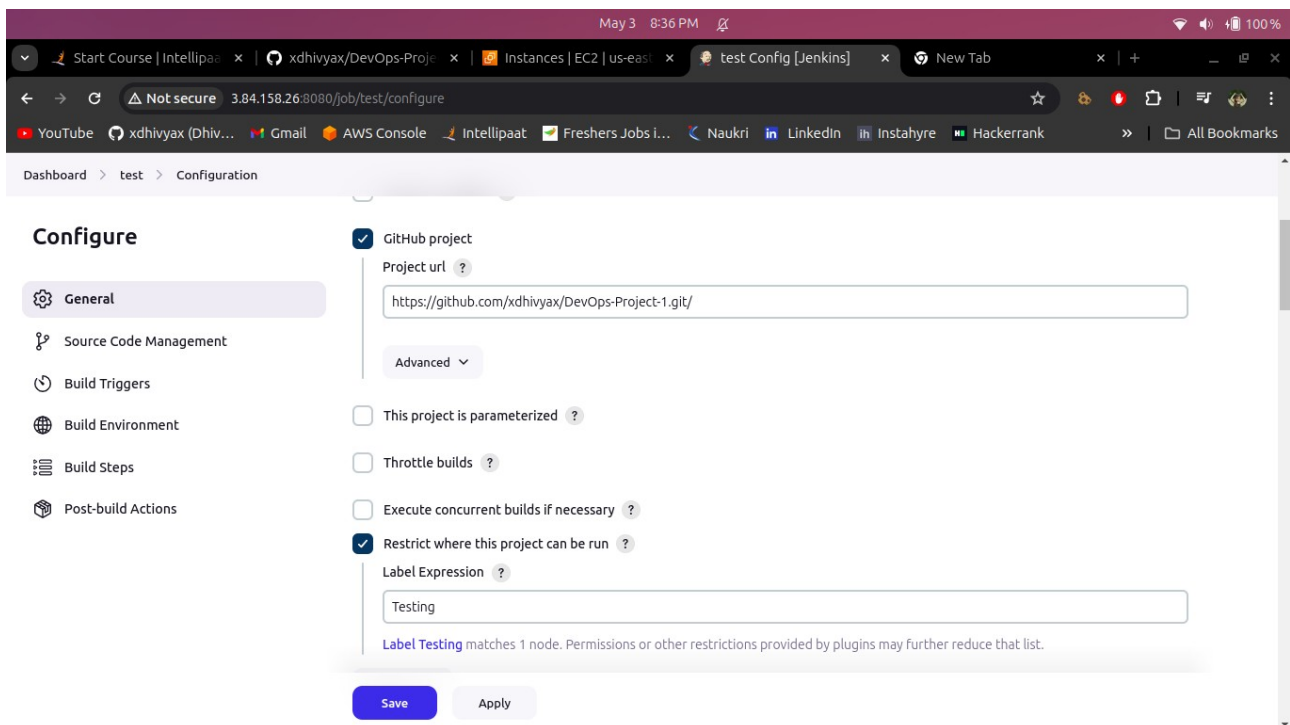
Git Build Data

Previous Build

Console Output

Started by GitHub push by xdhivyax
Running as SYSTEM
Building remotely on **Testing** in workspace /home/ubuntu/jenkins/workspace/job-1
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /home/ubuntu/jenkins/workspace/job-1/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/xdhivyax/DevOps-Project-1.git # timeout=10
Fetching upstream changes from https://github.com/xdhivyax/DevOps-Project-1.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/xdhivyax/DevOps-Project-1.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/develop^{commit} # timeout=10
Checking out Revision 1b320894ad3b6403e8b364d3cd9f388ba2fcd693 (refs/remotes/origin/develop)
> git config core.sparsecheckout # timeout=10
> git checkout -f 1b320894ad3b6403e8b364d3cd9f388ba2fcd693 # timeout=10
Commit message: "Done"
First time build. Skipping channel setup


```
ubuntu@testing-environment: ~$ cd jenkins/
ubuntu@testing-environment: ~/jenkins$ ls
remoting  remoting.jar  workspace
ubuntu@testing-environment: ~/jenkins$ cd workspace/
ubuntu@testing-environment: ~/jenkins/workspace$ ls
job-1
ubuntu@testing-environment: ~/jenkins/workspace$ cd job-1/
ubuntu@testing-environment: ~/jenkins/workspace/job-1$ ls
Dockerfile  images  index.html
ubuntu@testing-environment: ~/jenkins/workspace/job-1$ sudo docker images
REPOSITORY          TAG             IMAGE ID        CREATED         SIZE
project1-image      v1             555fbdfacf0f   About a minute ago  221MB
ubuntu              latest         bf3dc08bfed0   3 days ago      76.2MB
ubuntu@testing-environment: ~/jenkins/workspace/job-1$
```



May 3 8:36 PM

Start Course | Intellipaat x | xdhivyax/DevOps-Proje x | Instances | EC2 | us-east x | test Config [Jenkins] x | New Tab

Not secure 3.84.158.26:8080/job/test/configure

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Dashboard > test > Configuration

Configure

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

Repository URL ?

https://github.com/xdhivyax/DevOps-Project-1.git

Credentials ?

- none -

+ Add +

Advanced v

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*/master

Add Branch

Save Apply

May 3 8:37 PM

Start Course | Intellipaat x | xdhivyax/DevOps-Proje x | Instances | EC2 | us-east x | test Config [Jenkins] x | New Tab

Not secure 3.84.158.26:8080/job/test/configure

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Dashboard > test > 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
- ☐ Inspect build log for published build scans

Save Apply

May 3 8:37 PM

Start Course | Intellipaat x | xdhivyax/DevOps-Proje x | Instances | EC2 | us-east x | test Config [Jenkins] x | New Tab

Not secure 3.84.158.26:8080/job/test/configure

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Dashboard > test > 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 docker build $WORKSPACE -t testimage:v1
```

Advanced

Add build step

Save Apply

May 3 8:38 PM

Start Course | Intellipaat x | xdhivyax/DevOps-Proje x | Instances | EC2 | us-east x | test Config [Jenkins] x | New Tab

Not secure 3.84.158.26:8080/job/test/configure

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Dashboard > test > Configuration

Configure

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

Post-build Actions

Build other projects ?

Projects to build

prod

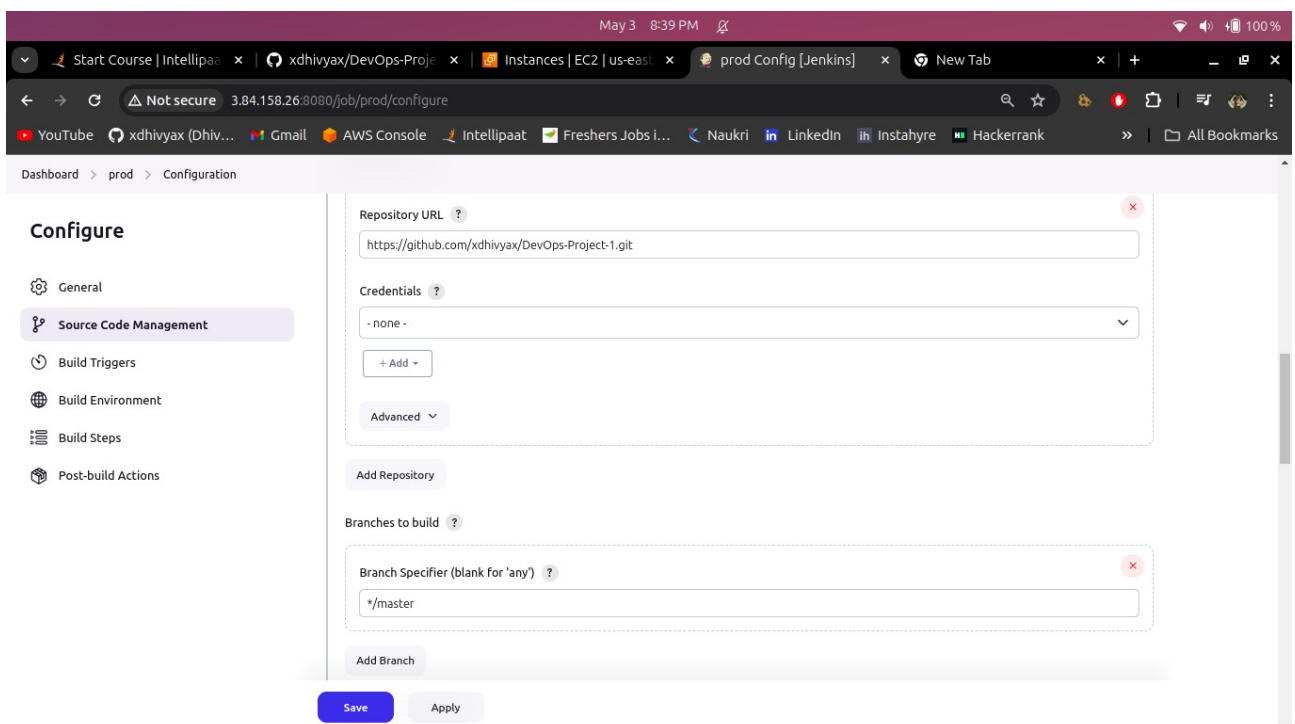
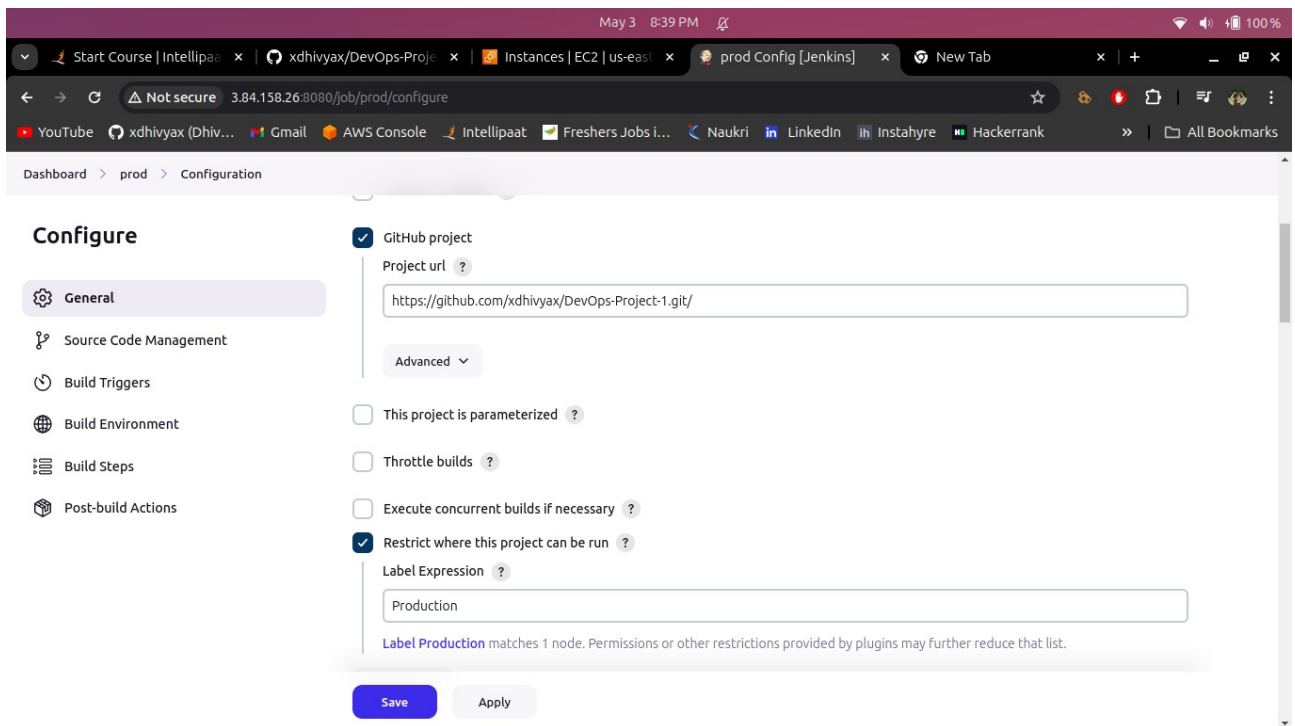
☒ Trigger only if build is stable

☐ Trigger even if the build is unstable

☐ Trigger even if the build fails

Add post-build action

Save Apply



May 3 8:40 PM

Start Course | Intellipaat x | xdhivyax/DevOps-Proje x | Instances | EC2 | us-east x | prod Config [Jenkins] x | New Tab

Not secure 3.84.158.26:8080/job/prod/configure

Dashboard > prod > 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 docker build $WORKSPACE -t finalimage:v1
sudo docker run -itd --name mycontainer -p 80:80 finalimage:v1
```

Advanced ▾

Add build step ▾

Save Apply

May 3 8:44 PM

ubuntu@jenkins-master: ~/DevOps-Project-1

ubuntu@production-environment: ~ x ubuntu@jenkins-master: ~/DevOps-Project-1 x ubuntu@testing-environment: ~ x

```
ubuntu@jenkins-master:~/DevOps-Project-1$ git branch
  develop
* master
ubuntu@jenkins-master:~/DevOps-Project-1$ git push origin master
Username for 'https://github.com': xdhivyax
Password for 'https://xdhivyax@github.com':
Enumerating objects: 5, done.
Counting objects: 100% (5/5), done.
Delta compression using up to 2 threads
Compressing objects: 100% (3/3), done.
Writing objects: 100% (3/3), 404 bytes | 404.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0
To https://github.com/xdhivyax/DevOps-Project-1.git
 56ac635..67b1c11 master -> master
ubuntu@jenkins-master:~/DevOps-Project-1$
```

May 3 8:45 PM

Start Course | Intellipa... x xdhivyax/DevOps-Proje x Connect to instance | E... x test [Jenkins] x New Tab

Not secure 3.84.158.26:8080/job/test/

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Dashboard > test >

Status test

Changes

Workspace

Build Now

Configure

Delete Project

GitHub Hook Log

GitHub

Rename

Edit description

Disable Project

Downstream Projects

prod

Permalinks

- Last build (#1), 39 sec ago
- Last stable build (#1), 39 sec ago
- Last successful build (#1), 39 sec ago
- Last completed build (#1), 39 sec ago

Build History trend

Filter...

#1

03-May-2024, 3:14 PM

Atom feed for all Atom feed for failures

May 3 8:46 PM

Start Course | Intellipa... x xdhivyax/DevOps-Proje x Connect to instance | E... x test #1 Console [Jenkin x New Tab

Not secure 3.84.158.26:8080/job/test/1/console

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Jenkins

Search (CTRL+K)

admin log out

Dashboard > test > #1 > Console Output

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#1'

Polling Log

Timings

Git Build Data

Console Output

```
Started by GitHub push by xdhivyax
Running as SYSTEM
Building remotely on Testing in workspace /home/ubuntu/jenkins/workspace/test
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/xdhivyax/DevOps-Project-1.git
> git init /home/ubuntu/jenkins/workspace/test # timeout=10
Fetching upstream changes from https://github.com/xdhivyax/DevOps-Project-1.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/xdhivyax/DevOps-Project-1.git
+refs/heads/*:refs/remotes/origin/* # timeout=10
> git config remote.origin.url https://github.com/xdhivyax/DevOps-Project-1.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 67b1c11a670acb2e1fc26cc127e30b865795ed73 (refs/remotes/origin/master)
> git config core.sparsecheckout # timeout=10
```


May 3 8:46 PM

Start Course | Intellipaa x | xdhiviyax/DevOps-Proje x | Connect to instance | E x | test #1 Console [Jenkin x | New Tab

Not secure 3.84.158.26:8080/job/test/1/console

Dashboard > test > #1 > Console Output

```
Commit message: "Done"
First time build. Skipping changelog.
[test] $ /bin/sh -xe /tmp/jenkins15842970199419942241.sh
+ sudo docker build /home/ubuntu/jenkins/workspace/test -t testimage:v1
DEPRECATED: The legacy builder is deprecated and will be removed in a future release.
            Install the buildx component to build images with BuildKit:
            https://docs.docker.com/go/buildx/

Sending build context to Docker daemon 273.9kB

Step 1/5 : FROM ubuntu
--> bf3dc08bfed0
Step 2/5 : RUN apt-get update
--> Using cache
--> 403b3808435f
Step 3/5 : RUN apt-get install apache2 -y
--> Using cache
--> fa4014a1470c
Step 4/5 : ADD . /var/www/html
--> 302197d8683d
Step 5/5 : ENTRYPOINT apachectl -D FOREGROUND
--> Running in 7909ee9f2e43
Removing intermediate container 7909ee9f2e43
--> 6935478c6f82
Successfully built 6935478c6f82
Successfully tagged testimage:v1
Triggering a new build of prod
Finished: SUCCESS
```

May 3 8:47 PM

ubuntu@testing-environment: ~/jenkins/workspace/test

ubuntu@production-environment: ~ x ubuntu@jenkins-master: ~/DevOps-Project-1 x ubuntu@testing-environment: ~/jenkins/workspace/test x

```
ubuntu@testing-environment:~$ cd jenkins/
ubuntu@testing-environment:~/jenkins$ ls
remoting  remoting.jar  workspace
ubuntu@testing-environment:~/jenkins$ cd workspace/
ubuntu@testing-environment:~/jenkins/workspace$ ls
job-1  test
ubuntu@testing-environment:~/jenkins/workspace$ cd test/
ubuntu@testing-environment:~/jenkins/workspace/test$ ls
Dockerfile  images  index.html
ubuntu@testing-environment:~/jenkins/workspace/test$ sudo docker images
REPOSITORY          TAG                 IMAGE ID            CREATED             SIZE
testimage           v1                 6935478c6f82       2 minutes ago      221MB
project1-image      v1                 555fbdfacf0f       About an hour ago  221MB
ubuntu              latest             bf3dc08bfed0       3 days ago         76.2MB
ubuntu@testing-environment:~/jenkins/workspace/test$
```



```
May 3 8:48 PM
ubuntu@production-environment: ~/jenkins/workspace/prod

ubuntu@production-environment: ~/jenkins/workspac... x  ubuntu@jenkins-master: ~/DevOps-Project-1 x  ubuntu@testing-environment: ~/jenkins/workspace/test x
ubuntu@production-environment:~$ cd jenkins/workspace/
ubuntu@production-environment:~/jenkins/workspace$ ls
prod
ubuntu@production-environment:~/jenkins/workspace$ cd prod/
ubuntu@production-environment:~/jenkins/workspace/prod$ ls
Dockerfile  images  index.html
ubuntu@production-environment:~/jenkins/workspace/prod$ sudo docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
finalimage    v1        333cab4fb00d   2 minutes ago  221MB
ubuntu        latest    bf3dc08bfed0   3 days ago     76.2MB
ubuntu@production-environment:~/jenkins/workspace/prod$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
73c16a7f0a1b   finalimage:v1  "/bin/sh -c 'apachec..."  2 minutes ago  Up 2 minutes  0.0.0.0:80->80/tcp, :::80->80/tcp  mycontainer
ubuntu@production-environment:~/jenkins/workspace/prod$
```

```
May 3 8:49 PM
ubuntu@production-environment: ~/jenkins/workspace/prod

ubuntu@production-environment: ~/jenkins/workspac... x  ubuntu@jenkins-master: ~/DevOps-Project-1 x  ubuntu@testing-environment: ~/jenkins/workspace/test x
ubuntu@production-environment:~$ cd jenkins/workspace/
ubuntu@production-environment:~/jenkins/workspace$ ls
prod
ubuntu@production-environment:~/jenkins/workspace$ cd prod/
ubuntu@production-environment:~/jenkins/workspace/prod$ ls
Dockerfile  images  index.html
ubuntu@production-environment:~/jenkins/workspace/prod$ sudo docker images
REPOSITORY    TAG       IMAGE ID       CREATED        SIZE
finalimage    v1        333cab4fb00d   2 minutes ago  221MB
ubuntu        latest    bf3dc08bfed0   3 days ago     76.2MB
ubuntu@production-environment:~/jenkins/workspace/prod$ sudo docker ps
CONTAINER ID   IMAGE          COMMAND                  CREATED        STATUS        PORTS                               NAMES
73c16a7f0a1b   finalimage:v1  "/bin/sh -c 'apachec..."  2 minutes ago  Up 2 minutes  0.0.0.0:80->80/tcp, :::80->80/tcp  mycontainer
ubuntu@production-environment:~/jenkins/workspace/prod$
```

