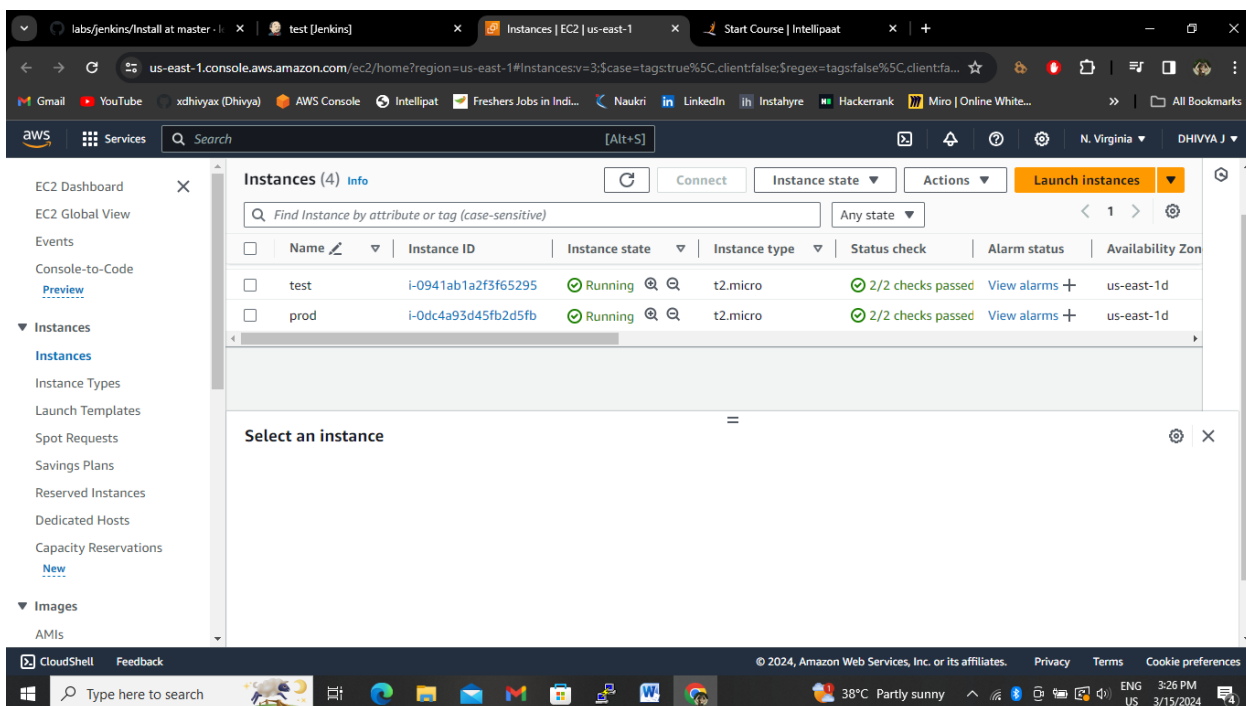


## Module-8: Jenkins Assignment - 2

You have been asked to:

- Add 2 nodes to Jenkins master
- Create 2 jobs with the following jobs:
  - Push to test
  - Push to prod
- Once a push is made to test branch copy git files to test server
- Once a push is made to master branch copy git files to prod server



The screenshot displays the AWS Management Console interface for the 'us-east-1' region. The left-hand navigation pane shows the 'Instances' section selected under 'EC2'. The main content area, titled 'Instances (4) Info', contains a table listing the existing EC2 instances. Two instances are visible: 'test' and 'prod', both in a 'Running' state, using 't2.micro' instance types, and located in the 'us-east-1d' availability zone. Below the table, a modal window titled 'Select an instance' is open, indicating that an instance has been chosen for an action. The browser's address bar shows the URL 'us-east-1.console.aws.amazon.com/ec2/home?region=us-east-1#instances:v=3:\$case=tags:true%5C.client:false;\$regex=tags:false%5C.client:fa...'. The Windows taskbar at the bottom shows the system clock as 3:25 PM on 3/15/2024.

Name	Instance ID	Instance state	Instance type	Status check	Alarm status	Availability Zone
test	i-0941ab1a2f3f65295	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d
prod	i-0dc4a93d45fb2d5fb	Running	t2.micro	2/2 checks passed	View alarms +	us-east-1d

labs/jenkins/Configurations/m... Security [Jenkins] Instances | EC2 | us-east-1 Start Course | Intellipaat

Not secure 34.207.231.36:8080/manage/configureSecurity/

Gmail YouTube xdhiviyax (Dhivya) AWS Console Intellipaat Freshers Jobs in Indi... Naukri LinkedIn Instahyre Hackerrank Miro | Online White...

Dashboard > Manage Jenkins > Security

### Agents

TCP port for inbound agents ?

☐ Fixed

☒ Random

☐ Disable

Agent protocols ▾

### CSRF Protection

Crumb Issuer

Default Crumb Issuer ▾

Save Apply

Type here to search 36°C Haze ENG IN 2:05 PM 3/15/2024

labs/jenkins/Configurations/m... Nodes [Jenkins] Instances | EC2 | us-east-1 Start Course | Intellipaat

Not secure 34.207.231.36:8080/manage/computer/

Gmail YouTube xdhiviyax (Dhivya) AWS Console Intellipaat Freshers Jobs in Indi... Naukri LinkedIn Instahyre Hackerrank Miro | Online White...

**Jenkins** Search (CTRL+K) admin log out

Dashboard > Manage Jenkins > Nodes

### Nodes

+ New Node Configure Monitors

Nodes

Clouds

Build Queue ▾  
No builds in the queue.

Build Executor Status ▾  
1 Idle  
2 Idle

S	Name	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	4.26 GiB	0 B	4.26 GiB	0ms
	Data obtained	41 min	41 min	41 min	41 min	41 min	41 min

Icon: S M L

REST API Jenkins 2.440.1

34.207.231.36:8080/manage/computer/new AUD/INR -0.45% ENG IN 2:08 PM 3/15/2024



labs/jenkins/Install at x test [Jenkins] x Instances | EC2 | us-e... x Log In | Intellipaat x xdhivayax/intellipat-... x After connecting jeni... x +

Not secure 34.207.231.36:8080/computer/test/

Gmail YouTube xdhivayax (Dhivya) AWS Console Intellipaat Freshers Jobs in Indi... Naukri LinkedIn Instahyre Hackerrank Miro | Online White...

Jenkins Search (CTRL+K) admin log out

Dashboard > Nodes > test

Status

Delete Agent

Configure

Build History

Load Statistics

Script Console

Log

System Information

Disconnect

Agent test

test

Mark this node temporarily offline

Edit description

Agent is connected.

Monitoring Data

Projects tied to test

None

Build Executor Status

Type here to search

38°C Partly sunny 3:47 PM 3/15/2024

labs/jenkins/Install at x New node [Jenkins] x Instances | EC2 | us-e... x Log In | Intellipaat x xdhivayax/intellipat-... x After connecting jeni... x +

Not secure 34.207.231.36:8080/computer/new

Gmail YouTube xdhivayax (Dhivya) AWS Console Intellipaat Freshers Jobs in Indi... Naukri LinkedIn Instahyre Hackerrank Miro | Online White...

Jenkins Search (CTRL+K) admin log out

Dashboard > Nodes > New node

New node

Node name

prod

Type

☒ Permanent Agent

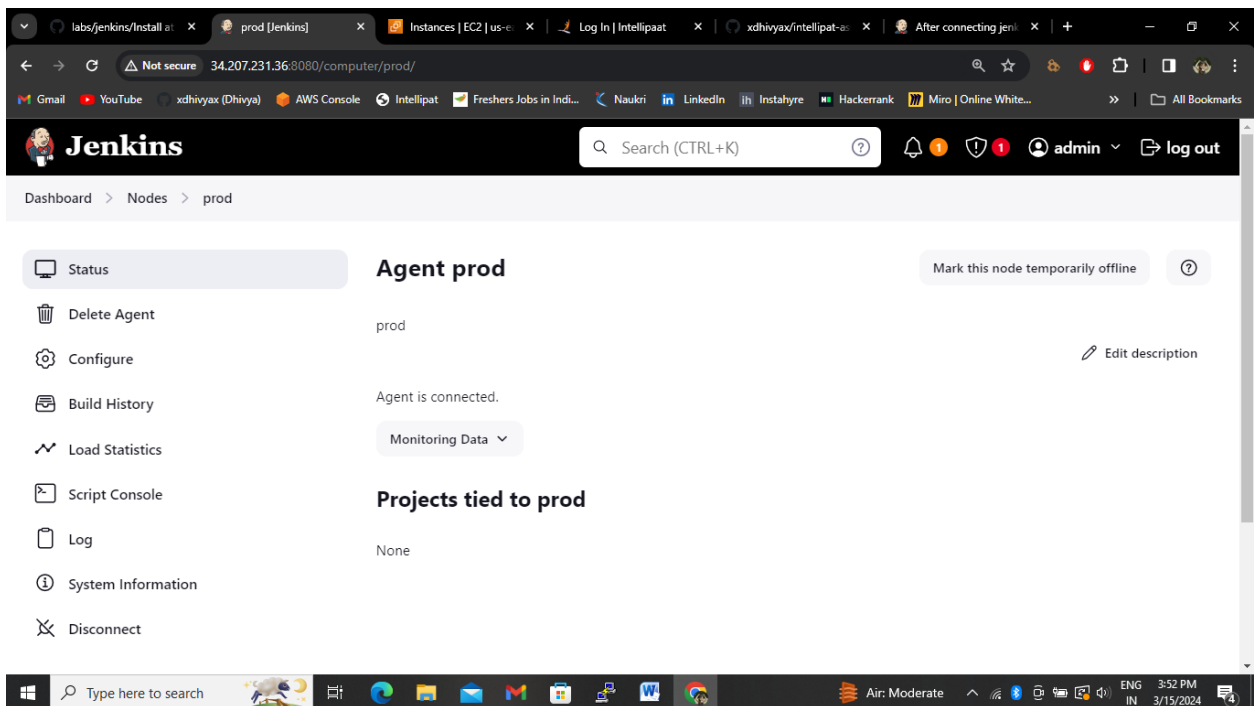
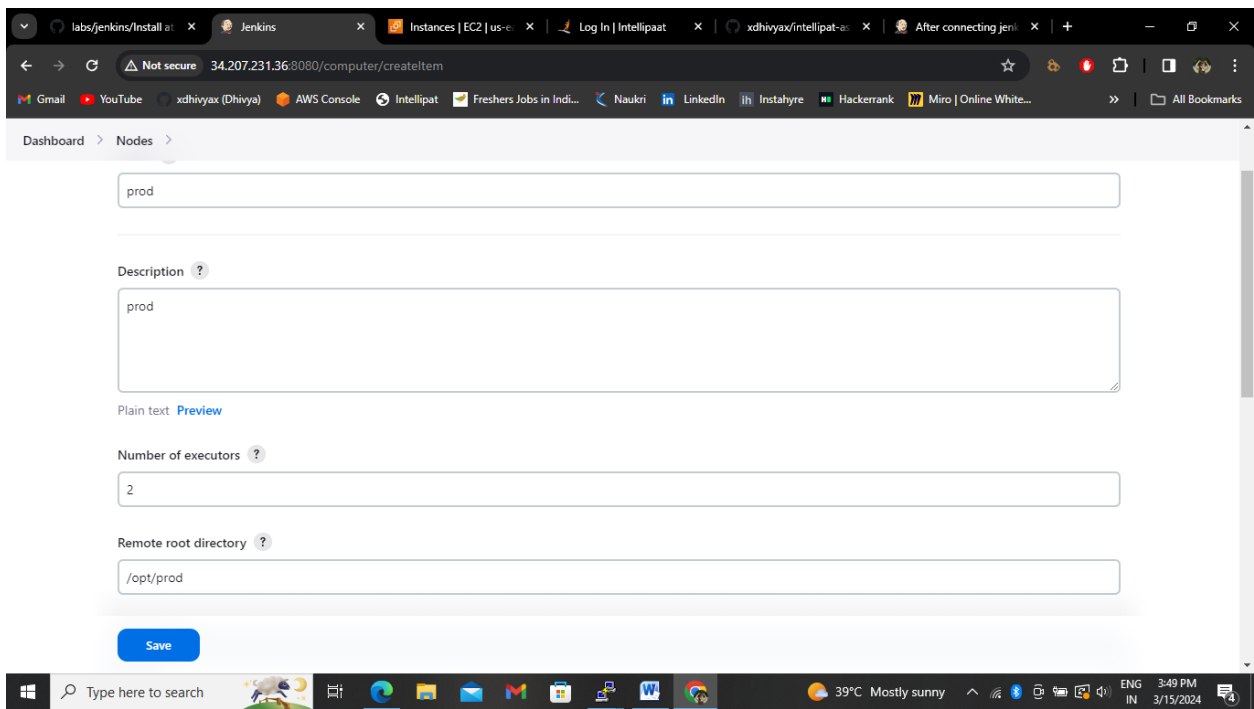
Adds a plain, permanent agent to Jenkins. This is called "permanent" because Jenkins doesn't provide higher level of integration with these agents, such as dynamic provisioning. Select this type if no other agent types apply — for example such as when you are adding a physical computer, virtual machines managed outside Jenkins, etc.

☐ Copy Existing Node

Create

Type here to search

38°C Partly sunny 3:48 PM 3/15/2024



labs/jenkins/Install at xNodes [Jenkins]Instances | EC2 | us-e...Log In | Intellipaatxdhivayax/intellipat-...After connecting jeni+

Not secure34.207.231.36:8080/computer/

GmailYouTubexdhivayax (Dhivya)AWS ConsoleIntellipatFreshers Jobs in Indi...NaukriLinkedInInstahyreHackerrankMiro | Online White...All Bookmarks

Dashboard > Nodes >

Nodes

+ New NodeConfigure Monitors

Build Queue

No builds in the queue.

Build Executor Status

Built-In Node

1 Idle

2 Idle

prod

1 Idle

2 Idle

test

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time
	Built-In Node	Linux (amd64)	In sync	4.26 GiB	0 B	4.26 GiB	0ms
	prod	Linux (amd64)	In sync	5.11 GiB	0 B	5.11 GiB	81ms
	test	Linux (amd64)	In sync	5.11 GiB	0 B	5.11 GiB	58ms
Data obtained		38 sec	38 sec	38 sec	38 sec	38 sec	38 sec

Icon: S M L

Type here to search

39°C Mostly sunny

ENG IN3:52 PM3/15/2024

labs/jenkins/Install at xNew Item [Jenkins]Instances | EC2 | us-e...Log In | Intellipaatxdhivayax/intellipat-...After connecting jeni+

Not secure34.207.231.36:8080/view/all/newJob

GmailYouTubexdhivayax (Dhivya)AWS ConsoleIntellipatFreshers Jobs in Indi...NaukriLinkedInInstahyreHackerrankMiro | Online White...All Bookmarks

Jenkins

Search (CTRL+K)

adminlog out

Dashboard > All >

Enter an item name

Push-to-test

» Required field

Freestyle project

Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.

Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

Multi-configuration project

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific etc.

OK

Type here to search

39°C Mostly sunny

ENG IN3:54 PM3/15/2024

labs/jenkins/Install at x Push-to-test Config | x Instances | EC2 | us-e... x Log In | Intellipaat x xdhiyax/intellipat-as x After connecting jeni x +

Not secure 34.207.231.36:8080/job/Push-to-test/configure

Gmail YouTube xdhiyax (Dhivya) AWS Console Intellipat Freshers Jobs in Indi... Naukri LinkedIn Instahyre Hackerrank Miro | Online White... All Bookmarks

Dashboard > Push-to-test > Configuration

### Configure

Plain text [Preview](#)

- ☐ Discard old builds ?
- ☐ GitHub project
- ☐ 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

Save Apply

Type here to search 39°C Mostly sunny ENG IN 3:55 PM 3/15/2024

labs/jenkins/Install at x Push-to-test Config | x Instances | EC2 | us-e... x Log In | Intellipaat x xdhiyax/intellipat-as x After connecting jeni x +

Not secure 34.207.231.36:8080/job/Push-to-test/configure

Gmail YouTube xdhiyax (Dhivya) AWS Console Intellipat Freshers Jobs in Indi... Naukri LinkedIn Instahyre Hackerrank Miro | Online White... All Bookmarks

Dashboard > Push-to-test > Configuration

### Configure

Git ?

Repositories ?

Repository URL ?  
https://github.com/xdhiyax/intellipat-assignment-demo.git

Credentials ?  
- none -  
+ Add +

Advanced ▾

Add Repository

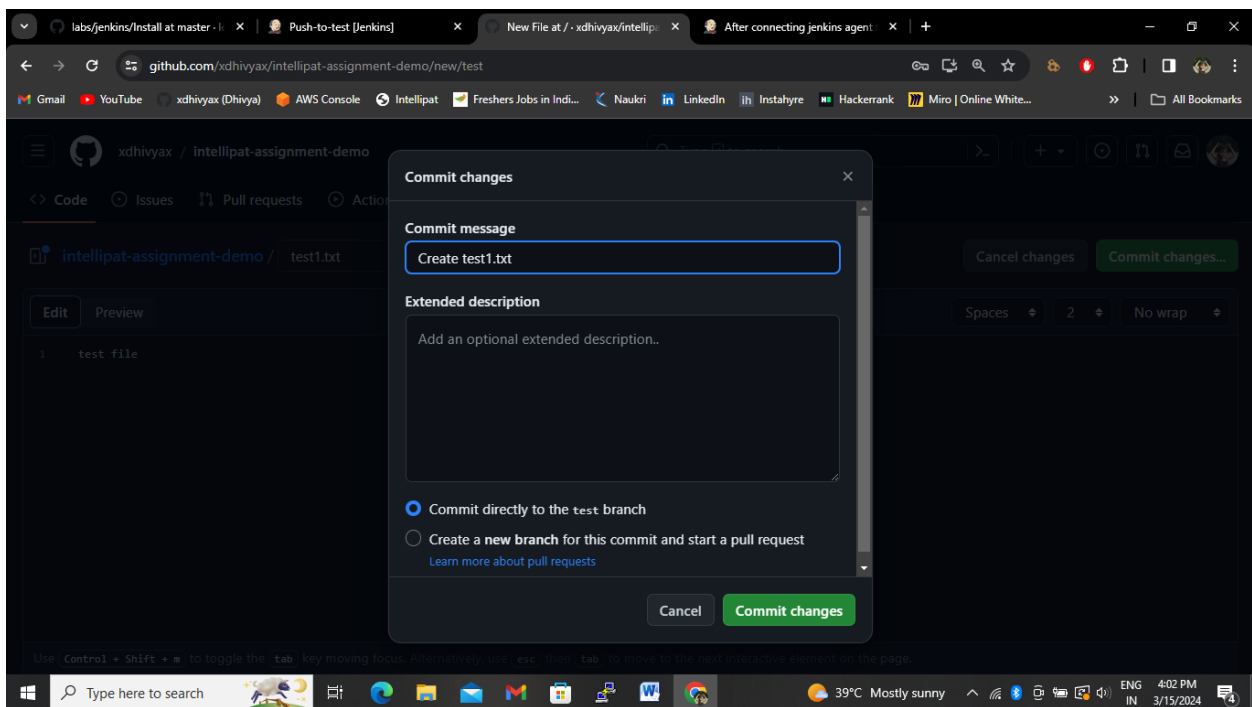
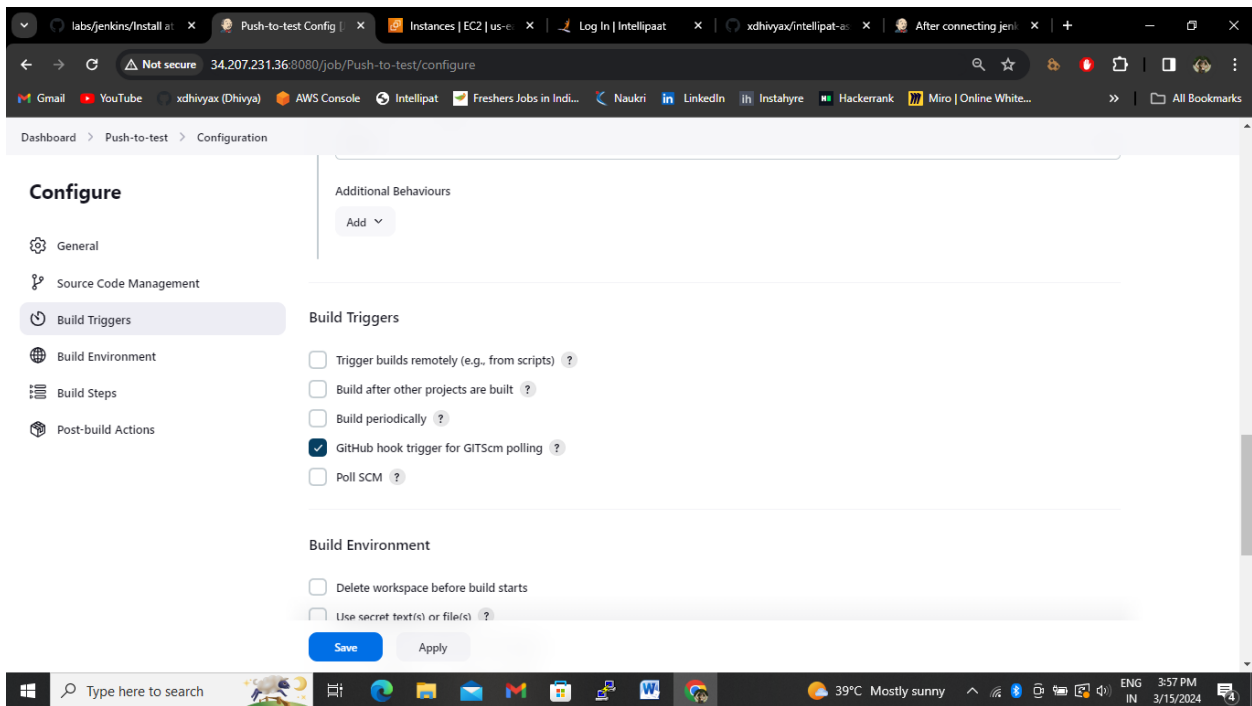
Branches to build ?

Branch Specifier (blank for 'any') ?  
\*/test

Add Branch

Save Apply

Type here to search 39°C Mostly sunny ENG IN 3:57 PM 3/15/2024





labs/jenkins/Install at master · x · Push-to-test [Jenkins] · intellipat-assignment-demo/ at · After connecting jenkins agent · +

Not secure 34.207.231.36:8080/job/Push-to-test/

Gmail YouTube xdhiviyax (Dhivya) AWS Console Intellipat Freshers Jobs in Indi... Naukri LinkedIn Instahyre Hackerrank Miro | Online White... All Bookmarks

Dashboard > Push-to-test > status

Changes

Workspace

Build Now

Configure

Delete Project

GitHub Hook Log

Rename

Permalinks

Build History trend

Filter...

15-Mar-2024, 10:32 am

Atom feed for all Atom feed for failures

REST API Jenkins 2.440.1

Type here to search 39°C Mostly sunny 4:13 PM 3/15/2024

labs/jenkins/Install at master · x · Push-to-test #1 Console [Jenkins] · intellipat-assignment-demo/ at · After connecting jenkins agent · +

Not secure 34.207.231.36:8080/job/Push-to-test/1/console

Gmail YouTube xdhiviyax (Dhivya) AWS Console Intellipat Freshers Jobs in Indi... Naukri LinkedIn Instahyre Hackerrank Miro | Online White... All Bookmarks

Jenkins Search (CTRL+K) admin log out

Dashboard > Push-to-test > #1 > Console Output

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#1'

Polling Log

Git Build Data

Console Output

```
Started by GitHub push by xdhiviyax
Running as SYSTEM
Building remotely on test in workspace /opt/test/workspace/Push-to-test
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/xdhiviyax/intellipat-assignment-demo.git
> /usr/bin/git init /opt/test/workspace/Push-to-test # timeout=10
Fetching upstream changes from https://github.com/xdhiviyax/intellipat-assignment-demo.git
> /usr/bin/git --version # timeout=10
> git --version # 'git version 2.34.1'
> /usr/bin/git fetch --tags --force --progress -- https://github.com/xdhiviyax/intellipat-assignment-demo.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/xdhiviyax/intellipat-assignment-demo.git # timeout=10
> /usr/bin/git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> /usr/bin/git rev-parse refs/remotes/origin/test^{commit} # timeout=10
Checking out Revision ce921e38b015041e1685fd869db7e2774a60598a (refs/remotes/origin/test)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f ce921e38b015041e1685fd869db7e2774a60598a # timeout=10
Commit message: "Create test1.txt"
```

Type here to search 39°C Mostly sunny 4:16 PM 3/15/2024

```
root@test:/opt/test/workspace/Push-to-test
root@test:/opt/test/workspace# cd ..
root@test:/opt/test# ls -l
total 1348
-rw-r--r-- 1 root root 1369595 Mar 15 10:15 agent.jar
drwxr-xr-x 4 root root 4096 Mar 15 10:16 remoting
drwxr-xr-x 3 root root 4096 Mar 15 10:32 workspace
root@test:/opt/test# cd workspace/
root@test:/opt/test/workspace# ls
Push-to-test
root@test:/opt/test/workspace# cd Push-to-test/
root@test:/opt/test/workspace/Push-to-test# ls -l
total 12
-rw-r--r-- 1 root root 31 Mar 15 10:32 file1.txt
-rw-r--r-- 1 root root 87 Mar 15 10:32 file2-develop
-rw-r--r-- 1 root root 10 Mar 15 10:32 test1.txt
root@test:/opt/test/workspace/Push-to-test#
```

labs/jenkins/install at master · jenkinsci/jenkins · GitHub

New Item [Jenkins]

intellipat-assignment-demo/ at

34.207.231.36:8080/view/all/newJob

Gmail YouTube xdhivayax (Dhivya) AWS Console Intellipat Freshers Jobs in Indi... Naukri LinkedIn Instahyre Hackerrank Miro | Online White...

# Jenkins


Search (CTRL+K)

admin log out


Dashboard > All >

### Enter an item name


> Required field

**Freestyle project**


Classic, general-purpose job type that checks out from up to one SCM, executes build steps serially, followed by post-build steps like archiving artifacts and sending email notifications.

**Pipeline**

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (formerly known as workflows) and/or organizing complex activities that do not easily fit in free-style job type.

**Multi-configuration project**

Suitable for projects that need a large number of different configurations, such as testing on multiple environments, platform-specific builds, etc.

**Folder**

OK

a container that stores nested items in it. Useful for grouping things together. Unlike view, which is just a filter, a folder creates a separate namespace, so you can have multiple things of the same name as long as they are in different folders.

labs/jenkins/Install at master · jenkinsci/jenkins · GitHub | prod Config [Jenkins] | intellipat-assignment-demo/ at · x

← → ↻ 🔒 Not secure 34.207.231.36:8080/job/prod/configure 🔍 ☆ 🏠 📄 🗑️ 🗑️ 🗑️

📧 Gmail 📺 YouTube 👤 xdhiviyax (Dhivya) 🛠️ AWS Console 🔄 Intellipat 📄 Freshers Jobs in Indi... 🌐 Naukri 🌐 LinkedIn 📷 Instahyre 📄 Hackerrank 🗺️ Miro | Online White...

Dashboard > prod > Configuration

## Configure

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

Plain text [Preview](#)

☐ Discard old builds ?

☐ GitHub project

☐ This project is parameterized ?

☐ Throttle builds ?

☐ Execute concurrent builds if necessary ?

☒ Restrict where this project can be run ?

Label Expression ?

prod

[Label prod matches 1 node. Permissions or other restrictions provided by plugins may further reduce that list.](#)

Advanced ▾

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

Type here to search

39°C Mostly sunny 4:19 PM 3/15/2024

labs/jenkins/Install at master · jenkinsci/jenkins · GitHub | prod Config [Jenkins] | xdhiviyax/intellipat-assignment- · x

← → ↻ 🔒 Not secure 34.207.231.36:8080/job/prod/configure 🔍 ☆ 🏠 📄 🗑️ 🗑️ 🗑️

📧 Gmail 📺 YouTube 👤 xdhiviyax (Dhivya) 🛠️ AWS Console 🔄 Intellipat 📄 Freshers Jobs in Indi... 🌐 Naukri 🌐 LinkedIn 📷 Instahyre 📄 Hackerrank 🗺️ Miro | Online White...

Dashboard > prod > Configuration

## Configure

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

Git ?

Repositories ?

Repository URL ?

https://github.com/xdhiviyax/intellipat-assignment-demo.git

Credentials ?

- none - ▾

[+ Add](#)

Advanced ▾

[Add Repository](#)

Branches to build ?

Branch Specifier (blank for 'any') ?

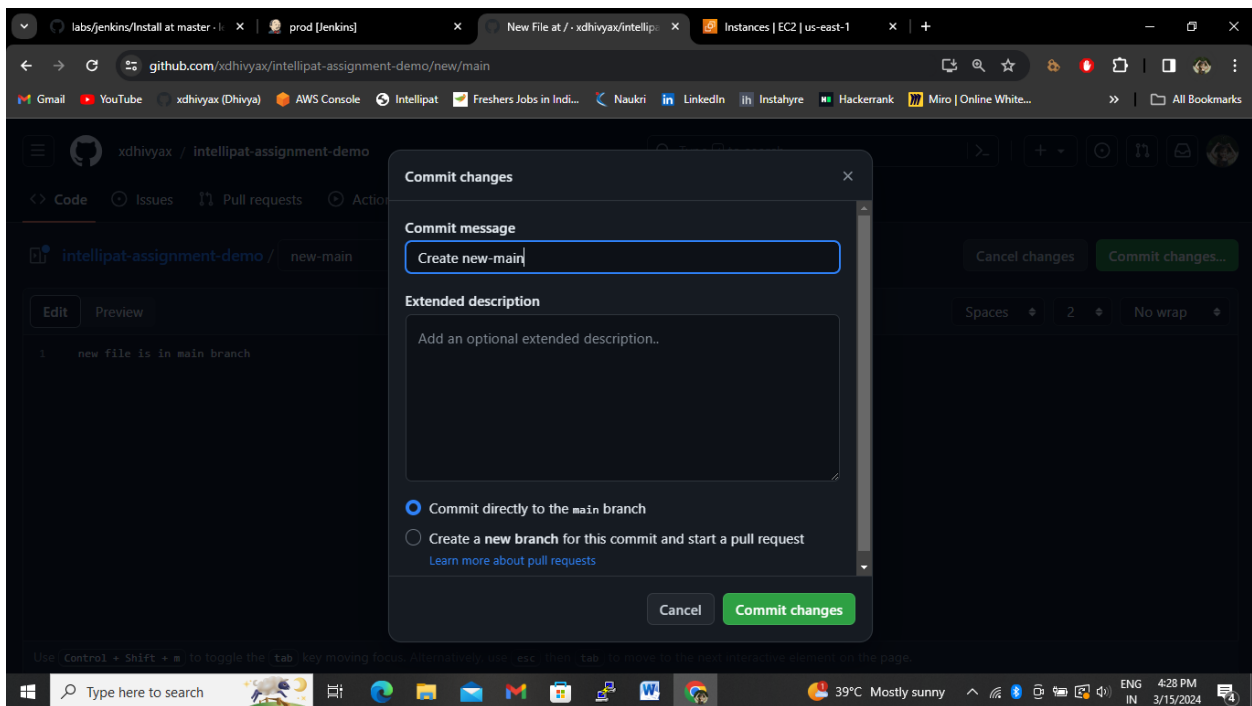
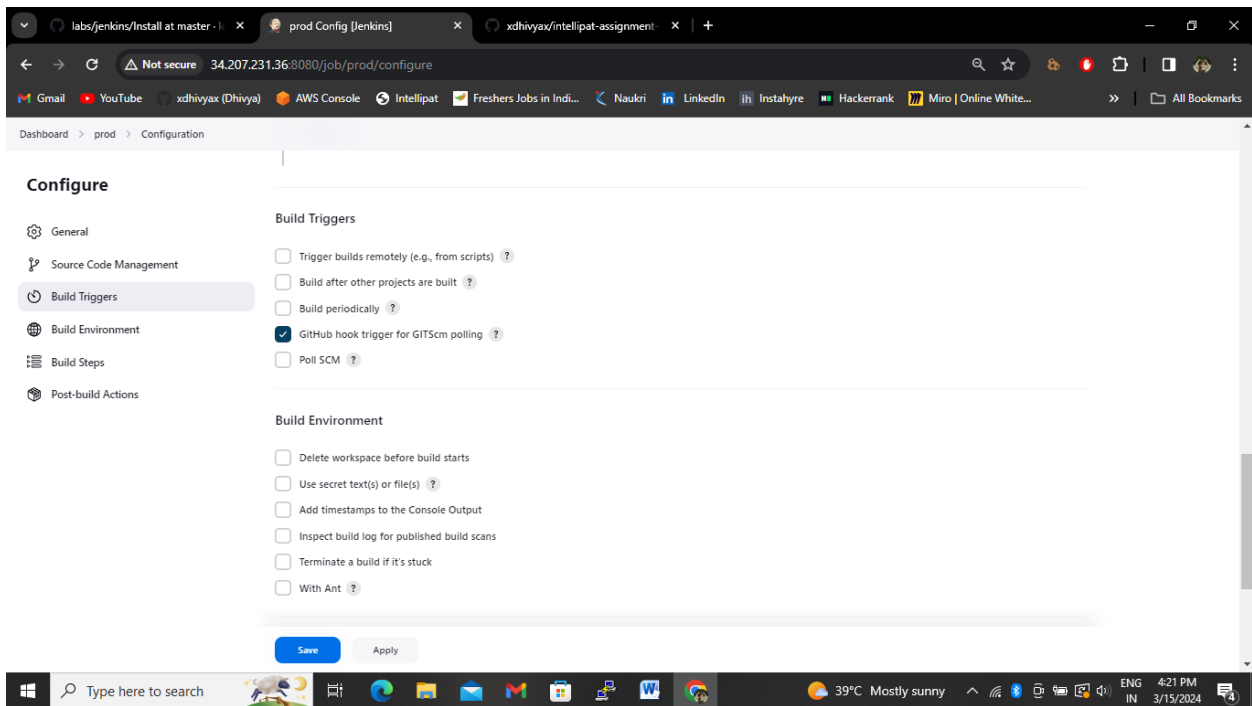
\*/main

[Add Branch](#)

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

Type here to search

39°C Mostly sunny 4:21 PM 3/15/2024



labs/jenkins/install at master · xdhivyax · GitHub

prod [jenkins]

intellipat-assignment-demo/ at · xdhivyax · GitHub

Instances | EC2 | us-east-1

Not secure 34.207.231.36:8080/job/prod/

Gmail YouTube xdhivyax (Dhivya) AWS Console Intellipat Freshers Jobs in India Naukri LinkedIn Instahyre Hackerrank Miro Online White...

Jenkins

Search (CTRL+K)

admin log out

Dashboard > prod >

Status prod

Changes

Workspace

Build Now

Configure

Delete Project

GitHub Hook Log

Rename

Build History trend

Filter...

#1 (pending—in the quiet period. Expires in 0.59 sec)

Atom feed for all Atom feed for failures

REST API Jenkins 2.440.1

Type here to search

39°C Mostly sunny

ENG 4:29 PM 3/15/2024

labs/jenkins/install at master · xdhivyax · GitHub

prod #1 Console [jenkins]

intellipat-assignment-demo/ at · xdhivyax · GitHub

Instances | EC2 | us-east-1

Not secure 34.207.231.36:8080/job/prod/1/console

Gmail YouTube xdhivyax (Dhivya) AWS Console Intellipat Freshers Jobs in India Naukri LinkedIn Instahyre Hackerrank Miro Online White...

Dashboard > prod > #1 > Console Output

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#1'

Polling Log

Git Build Data

Console Output

```
Started by GitHub push by xdhivyax
Running as SYSTEM
Building remotely on prod in workspace /opt/prod/workspace/prod
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/xdhivyax/intellipat-assignment-demo.git
> /usr/bin/git init /opt/prod/workspace/prod # timeout=10
Fetching upstream changes from https://github.com/xdhivyax/intellipat-assignment-demo.git
> /usr/bin/git --version # timeout=10
> git --version # 'git version 2.34.1'
> /usr/bin/git fetch --tags --force --progress -- https://github.com/xdhivyax/intellipat-assignment-demo.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git config remote.origin.url https://github.com/xdhivyax/intellipat-assignment-demo.git # timeout=10
> /usr/bin/git config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> /usr/bin/git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 208e52f19b031cb38c95d715e956a9427194fe6b (refs/remotes/origin/main)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f 208e52f19b031cb38c95d715e956a9427194fe6b # timeout=10
Commit message: "Create new-main"
First time build. Skipping changelog.
Finished: SUCCESS
```

Type here to search

39°C Mostly sunny

ENG 4:31 PM 3/15/2024

root@prod: /opt/prod/workspace/prod

```
root@prod:/opt/prod# ls
agent.jar  remoting  workspace
root@prod:/opt/prod# cd workspace/
root@prod:/opt/prod/workspace# ls
prod
root@prod:/opt/prod/workspace# cd prod/
root@prod:/opt/prod/workspace/prod# ls
file1.txt  file2-develop  new-main
root@prod:/opt/prod/workspace/prod# ls -l
total 12
-rw-r--r-- 1 root root 31 Mar 15 10:59 file1.txt
-rw-r--r-- 1 root root 87 Mar 15 10:59 file2-develop
-rw-r--r-- 1 root root 27 Mar 15 10:59 new-main
root@prod:/opt/prod/workspace/prod#
```