

## Module-8: Jenkins Assignment - 1

You have been asked to:

- ● Trigger a pipeline using Git when push on Develop branch
- ● Pipeline should pull git content to a folder

## Module-8: Jenkins Assignment - 2

You have been asked to:

- ● Add 2 nodes to Jenkins master
- ● Create 2 jobs with the following jobs:
  - o ○ Push to test
  - o ○ 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

## Module-8: Jenkins Assignment - 3

You have been asked to:

- ● Create a pipeline in jenkins
- ● Once push is made to “develop” branch in git, trigger job “test”. This will copy git files to

test node

- • If test job is successful, then prod job should be triggered
- • Prod jobs should copy files to prod node

ANS

Launch 3 EC2 Instances



Services

Search

EC2 Dashboard

EC2 Global View

Events

▼ Instances

**Instances**

Instance Types

Launch Templates

Spot Requests

Savings Plans

Reserved Instances

Dedicated Hosts

Capacity Reservations

▼ Images

AMIs

AMI Catalog

▼ Elastic Block Store

Volumes

Snapshots

Lifecycle Manager

## Instances (1/3) [Info](#)

Last updated  
5 minutes ago



**Connect**



Find Instance by attribute or tag (case



Name



Instan



jenkins-M

i-04a3



jenkins-s1

i-0dbe



jenkins-s2

i-0329

### i-04a3ea030454af5f7 (jenkins-M)

**Details**

Status and alarms

Mo

#### ▼ Instance summary [Info](#)

Instance ID



i-04a3ea030454af5f7 (jenkins-M)

IPv6 address

Run the below commands in all the three instances

```
sudo apt update
```

```
sudo apt install openjdk-11-jdk -y
```

Check java installed in all the three EC2 Instances

Now Install jenkins from official website

<https://www.jenkins.io/doc/book/installing/linux/#debianubuntu>

```
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
```

copy the Jenkins-M public IP in the browser and Jenkins setup



Not Secure

18.237.116.225:8080



Google



Inbox - maheshza...



SoftLayer Agent P...



Mail - mahesh.z@i.



# Jenkins

Dashboard >



New Item



Build History



Manage Jenkins



My Views

Build Queue



No builds in the queue.

Build Executor Status



1 Idle

2 Idle

## Welcome

This page  
distributed

## Start

Create


## Set up

Set

Con


Learn

Go to nodes

 **Jenkins**

Dashboard > Manage Jenkins > Nodes >

 Nodes

 Clouds

Build Queue

▼

No builds in the queue.

Build Executor Status

▼


1

 Idle

2

 Idle

## Nodes

| S   | Name ↓        |
|---|---------------|
|  | Built-In Node |
| Data obtained   |               |

Icon: S M L



## New node

Node name

Type



**Permanent Agent**

Adds a plain, permanent agent to Jenkins. This is called "plain" because it doesn't provide higher level of integration with these agent provisioning. Select this type if no other agent types apply. If you are adding a physical computer, virtual machines managed by a cloud provider, or a Docker container, select the appropriate agent type.

Create



Name ?

slave1

Description ?

Plain text [Preview](#)

Number of executors ?

1

Remote root directory ?

/home/ubuntu/jenkins

Labels ?

Usage ?

Use this node as much as possible

Launch method ?

Launch agents via SSH

Host ?

172.31.29.247 |

! The Host must be specified

Credentials ?

Save



Name

Launch method

And host entry ( Private IP address )

Credentials ?

- none -

+ Add ▾

 The selected credentials cannot be found

## Jenkins Credentials Provider: Jenkins

### Add Credentials

Domain

Global credentials (unrestricted)

Kind

SSH Username with private key

Scope ?

Global (Jenkins, nodes, items, all child items, etc)

ID ?

Description ?

Username

ubuntu

☐ Treat username as secret ?

Change in kind and user name

Copy .pem file content here in key section

## Jenkins Credentials Provider: Jenkins

Scope ?

Global (Jenkins, nodes, items, all child items, etc)

ID ?

Description ?

Username

ubuntu

☐ Treat username as secret ?

Private Key

☒ Enter directly

Key

```
A/XhBQKBgHF/nKDM9ZCLJKJyLw0Uen0n0BGceXWN0IXCuMtkqCX3nNhrtDXyhG/m
0tj4cbfee0c3LgRpB1w1me/ZWyzZm0vD4/SZs9ThANvGdGQ9bAar0Be5XPBpYWq9
1/y1KYW3BELS+1mWLhKH0A+0aM0vP+8TbI5Kv0rDP7+XM4vXeYrE
-----END RSA PRIVATE KEY-----
```

Passphrase

Click on add



Name ?

slave1

Description ?

Plain text [Preview](#)

Number of executors ?

1

Remote root directory ?

/home/ubuntu/jenkins/

Labels ?

Usage ?

Use this node as much as possible

Launch method ?

Launch agents via SSH

Host ?

172.31.29.247

Credentials ?

ubuntu

Click on save



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Dashboard > Manage Jenkins > Nodes >

Labels ?

Usage ?

Use this node as much as possible

Launch method ?

Launch agents via SSH

Host ?

172.31.29.247

Credentials ?

ubuntu

+ Add ▾

Host Key Verification Strategy ?

Non verifying Verification Strategy

Advanced ▾


Availability ?

Keep this agent online as much as possible

## Node Properties


- ☐ Disable deferred wipeout on this node ?
- ☐ Disk Space Monitoring Thresholds
- ☐ Environment variables
- ☐ Tool Locations


Click on save and node is now successfully connected



# Jenkins

Dashboard > Manage Jenkins > Nodes >


 Nodes

 Clouds


Build Queue

No builds in the queue.

Build Executor Status



 Built-In Node

1 Idle

 slave1

1 Idle

## Nodes

| S   | Name ↓                        | Architecture  |
|---|-------------------------------|---------------|
|  | <a href="#">Built-In Node</a> | Linux (amd64) |
|  | <a href="#">slave1</a>        | Linux (amd64) |
| Data obtained   |                               | 0.26 sec      |

Icon: S M **L**

Klik on the slave1 EC2 and go to the log



- Status
- Delete Agent
- Configure
- Build History
- Load Statistics
- Script Console
- Log
- System Information
- Disconnect

1 Idle

```
SSHLauncher{host='172.31.29.247', port=22, credentials={launchTimeoutSeconds=60, maxNumRetries=10, retryWaitTime=10}, trackCredentials=true}
[10/03/24 11:47:50] [SSH] Opening SSH connection to 172.31.29.247:22
[10/03/24 11:47:50] [SSH] WARNING: SSH Host Keys are not known. Proceeding anyway!
[10/03/24 11:47:50] [SSH] Authentication successful
[10/03/24 11:47:51] [SSH] The remote user's environment variables are:
BASH=/usr/bin/bash
BASHOPTS=checkwinsize:cmdhist:complete_fullquote:expand_aliases:extglob:extglob_dollar:force_redirection:globstar:hashmark:ltrim_spaces:long_list_extensions:multi_spec:ocd:pipefail:simple_expand_aliases:sourcepath:tcsh_keywords:tilde_expansion:zsh_expn_1
BASH_ALIASES=()
BASH_ARGC=( [0]="0")
BASH_ARGV=( )
BASH_CMDS=( )
BASH_EXECUTION_STRING=set
BASH_LINENO=( )
BASH_LOADABLES_PATH=/usr/local/lib/bash:/usr/lib/bash
BASH_SOURCE=( )
BASH_VERSINFO=( [0]="5" [1]="2" [2]="21" [3]="1" [4]="0" )
BASH_VERSION='5.2.21(1)-release'
DBUS_SESSION_BUS_ADDRESS=unix:path=/run/user/1000/socket:bus_type=session
DIRSTACK=( )
EUID=1000
GROUPS=( )
HOME=/home/ubuntu
HOSTNAME=ip-172-31-29-247
HOSTTYPE=x86_64
```

Agent is successfully connected.





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18.237.116.225:8080/computer/slave1/



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Dashboard > Nodes > slave1 > Log

TERM=dumb

UID=1000

USER=ubuntu

XDG\_RUNTIME\_DIR=/run/user/1000

XDG\_SESSION\_CLASS=user

XDG\_SESSION\_ID=15

XDG\_SESSION\_TYPE=tty

\_='']'

Checking Java version in the PATH

openjdk version "11.0.24" 2024-07-16

OpenJDK Runtime Environment (build 11.0.24+8-post-U

OpenJDK 64-Bit Server VM (build 11.0.24+8-post-Ubun

[10/03/24 11:47:51] [SSH] Checking java version of

Couldn't figure out the Java version of /home/ubuntu

bash: line 1: /home/ubuntu/jenkins/jdk/bin/java: No

[10/03/24 11:47:51] [SSH] Checking java version of

[10/03/24 11:47:51] [SSH] java -version returned 11

[10/03/24 11:47:51] [SSH] Starting sftp client.

[10/03/24 11:47:51] [SSH] Remote file system root /

[10/03/24 11:47:51] [SSH] Copying latest remoting.j

[10/03/24 11:47:51] [SSH] Copied 1,393,029 bytes.

Expanded the channel window size to 4MB

[10/03/24 11:47:51] [SSH] Starting agent process: c

/home/ubuntu/jenkins/remoting/jarCache

Oct 03, 2024 11:47:52 AM org.jenkinsci.remoting.eng

INFO: Using /home/ubuntu/jenkins/remoting as a remo

Oct 03, 2024 11:47:52 AM org.jenkinsci.remoting.eng

INFO: Both error and output logs will be printed to

<===[JENKINS REMOTING CAPACITY]===>channel started

Remoting version: 3248.3250.v3277a\_8e88c9b\_

Launcher: SSHLauncher

Communication Protocol: Standard in/out

This is a Unix agent

WARNING: An illegal reflective access operation has

WARNING: Illegal reflective access by jenkins.slave

WARNING: Please consider reporting this to the main


WARNING: Use --illegal-access=warn to enable warnin

WARNING: All illegal access operations will be deni

Evacuated stdout

Agent successfully connected and online

## Add second node

 **Jenkins**

Dashboard > Manage Jenkins > Nodes > New node

### New node

Node name

Type

☐ Permanent Agent

Adds a plain, permanent agent to Jenkins. This is called "permanent" because Jenkins doesn't manage these agents, such as dynamic provisioning. Select this type if no other agent types apply — e.g. a physical computer, virtual machines managed outside Jenkins, etc.

☒ Copy Existing Node

Create

Only private IP address needs to be changed



Dashboard > Manage Jenkins > Nodes > slave2 > Configure

Status

Delete Agent

Configure

Build History

Load Statistics

Log

Build Executor Status

Name ?

slave2

Description ?

Plain text [Preview](#)

Number of executors ?

1

Remote root directory ?

/home/ubuntu/jenkins/

Labels ?

Usage ?

Use this node as much as possible

Launch method ?

Launch agents via SSH

Host ?

172.31.20.238

Credentials ?

And click on save



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Mail - mahesh.z@i.

Dashboard > Manage Jenkins > Nodes > slave2 > Configure

Usage ?

Use this node as much as possible

Launch method ?

Launch agents via SSH

Host ?

172.31.20.238

Credentials ?

ubuntu

+ Add ▾

Host Key Verification Strategy ?

Non verifying Verification Strategy

Advanced ▾

Edited

Availability ?

Keep this agent online as much as possible

## Node Properties

- ☐ Disable deferred wipeout on this node ?
- ☐ Disk Space Monitoring Thresholds
- ☐ Environment variables
- ☐ Tool Locations

Save



Nodes



Clouds

## Build Queue



No builds in the queue.

## Build Executor Status



Built-In Node

1 Idle

2 Idle



slave1

1 Idle



slave2

1 Idle

## Nodes

| S             | Name ↓                        | Architecture  |
|---------------|-------------------------------|---------------|
|               | <a href="#">Built-In Node</a> | Linux (amd64) |
|               | <a href="#">slave1</a>        | Linux (amd64) |
|               | <a href="#">slave2</a>        | Linux (amd64) |
| Data obtained |                               | 43 sec        |

Icon:

S

M

L

Click on slave2 node and check the logs





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18.237.116.225:8080/computer/slave2/



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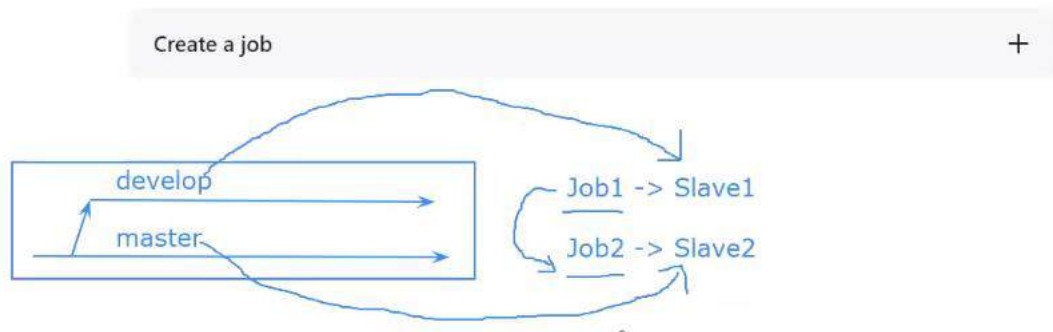
Mail - mahesh.z@i

Dashboard &gt; Nodes &gt; slave2 &gt; Log

```
TERM=dumb
UID=1000
USER=ubuntu
XDG_RUNTIME_DIR=/run/user/1000
XDG_SESSION_CLASS=user
XDG_SESSION_ID=16
XDG_SESSION_TYPE=tty
_='']'
Checking Java version in the PATH
openjdk version "11.0.24" 2024-07-16
OpenJDK Runtime Environment (build 11.0.24+8-post-U
OpenJDK 64-Bit Server VM (build 11.0.24+8-post-Ubu
[10/03/24 12:02:03] [SSH] Checking java version of
Couldn't figure out the Java version of /home/ubuntu
bash: line 1: /home/ubuntu/jenkins/jdk/bin/java: No

[10/03/24 12:02:03] [SSH] Checking java version of
[10/03/24 12:02:03] [SSH] java -version returned 11
[10/03/24 12:02:03] [SSH] Starting sftp client.
[10/03/24 12:02:03] [SSH] Remote file system root /
[10/03/24 12:02:03] [SSH] Copying latest remoting.j
[10/03/24 12:02:04] [SSH] Copied 1,393,029 bytes.
Expanded the channel window size to 4MB
[10/03/24 12:02:04] [SSH] Starting agent process: c
/home/ubuntu/jenkins/remoting/jarCache
Oct 03, 2024 12:02:04 PM org.jenkinsci.remoting.eng
INFO: Using /home/ubuntu/jenkins/remoting as a remo
Oct 03, 2024 12:02:04 PM org.jenkinsci.remoting.eng
INFO: Both error and output logs will be printed to
<====[JENKINS REMOTING CAPACITY]====>channel started
Remoting version: 3248.3250.v3277a_8e88c9b_
Launcher: SSHLauncher
Communication Protocol: Standard in/out
This is a Unix agent
WARNING: An illegal reflective access operation has
WARNING: Illegal reflective access by jenkins.slave
WARNING: Please consider reporting this to the main
WARNING: Use --illegal-access=warn to enable warnin
WARNING: All illegal access operations will be deni
Evacuated stdout
Agent successfully connected and online
```

We have create the below jobs



For all 3 assignmnets

Now we have to create github repository





New repository

## Create a new repository

A repository contains all project files, including those already stored elsewhere? [Import a repository.](#)

*Required fields are marked with an asterisk*

Owner \*

 maheshiitm ▾

Repository name \*

/ jenkins-03-10-2020  
✓ jenkins-03-10-2020

Great repository names are short and memorable

Description (optional)

 maheshiitm / jenkins-03-10-2  
✓ jenkins-03-10-2

Great repository names are short and memo

### Description (optional)

- ☒  **Public**  
Anyone on the internet can see this rep
- ☐  **Private**  
You choose who can see and commit to

### Initialize this repository with:

- ☐ **Add a README file**  
This is where you can write a long description

### Add .gitignore

.gitignore template: None ▾

Choose which files not to track from a list of templ

### Choose a license

License: None ▾

A license tells others what they can and can't do w

 You are creating a public repository in yo

Respository created in github account

← → ↻ 🏠 🔍 github.com/maheshiitm/jenkins-03-10-2024

🌐 Google 📧 Inbox - maheshza... 📄 SoftLayer Agent P... 📧 Mail - mahesh.z@i



maheshiitm / jenkins-03-10-2024

<> **Code**

🕒 Issues

🔗 Pull requests

🎬 Actions

📁 Projects



**jenkins-03-10-2024**

Public



### Set up GitHub Copilot

Use GitHub's AI pair programmer to autocomplete suggestions as you code

Get started with GitHub Copilot

### Quick setup — if you've done this kind of thing before



Set up in Desktop

or

HTTPS

SSH

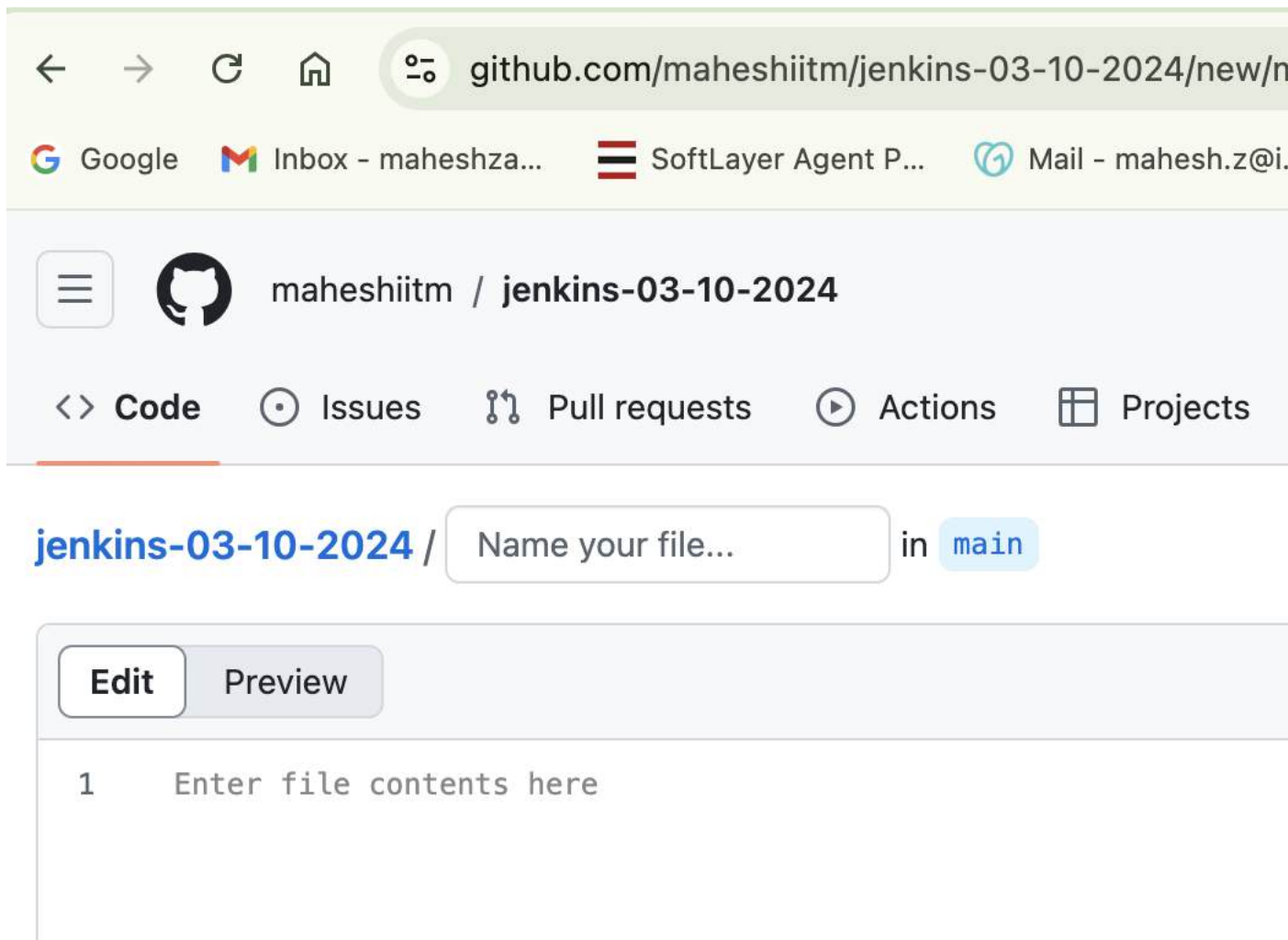
git@github.com:maheshiitm

Get started by [creating a new file](#) or [uploading an existing file](#). We recommend

### ...or create a new repository on the command line

```
echo "# jenkins-03-10-2024" >> README.md
git init
git add README.md
git commit -m "first commit"
git branch -M main
```


Click on createting new file



The screenshot shows the GitHub interface for creating a new file. At the top, the browser address bar displays 'github.com/maheshiitm/jenkins-03-10-2024/new/m'. Below the browser, the GitHub header shows the repository name 'maheshiitm / jenkins-03-10-2024'. A navigation bar contains links for 'Code', 'Issues', 'Pull requests', 'Actions', and 'Projects', with 'Code' being the active tab. Below the navigation bar, the repository name 'jenkins-03-10-2024' is followed by a text input field 'Name your file...' and 'in main'. Below this, there are two buttons: 'Edit' and 'Preview'. The main content area shows a single line of text: '1 Enter file contents here'.

← → ↻ 🏠 🔍 github.com/maheshiitm/jenkins-03-10-2024/new/m

🔍 Google 📧 Inbox - maheshza... 📄 SoftLayer Agent P... 📧 Mail - mahesh.z@i.

☰  maheshiitm / **jenkins-03-10-2024**

<> **Code** ⓘ Issues 🔗 Pull requests ▶ Actions 📁 Projects

**jenkins-03-10-2024** /  in **main**

**Edit** Preview

1 Enter file contents here

Click on commit changes

maheshiitm Create main.txt

| Name     |  | Last    |
|----------|--|---------|
| main.txt |  | Created |

Main branch is created



maheshiitm / jenkins-03-10-2024

<> **Code**

⦿ Issues

🔗 Pull requests

▶ Actions

📁 Projects



**jenkins-03-10-2024**

Public

🔗 main ▾

🔗 1 Branch 🏷 0 Tags

🔍 G



**maheshiitm** Create main.txt



main.txt

Create main.txt



**README**

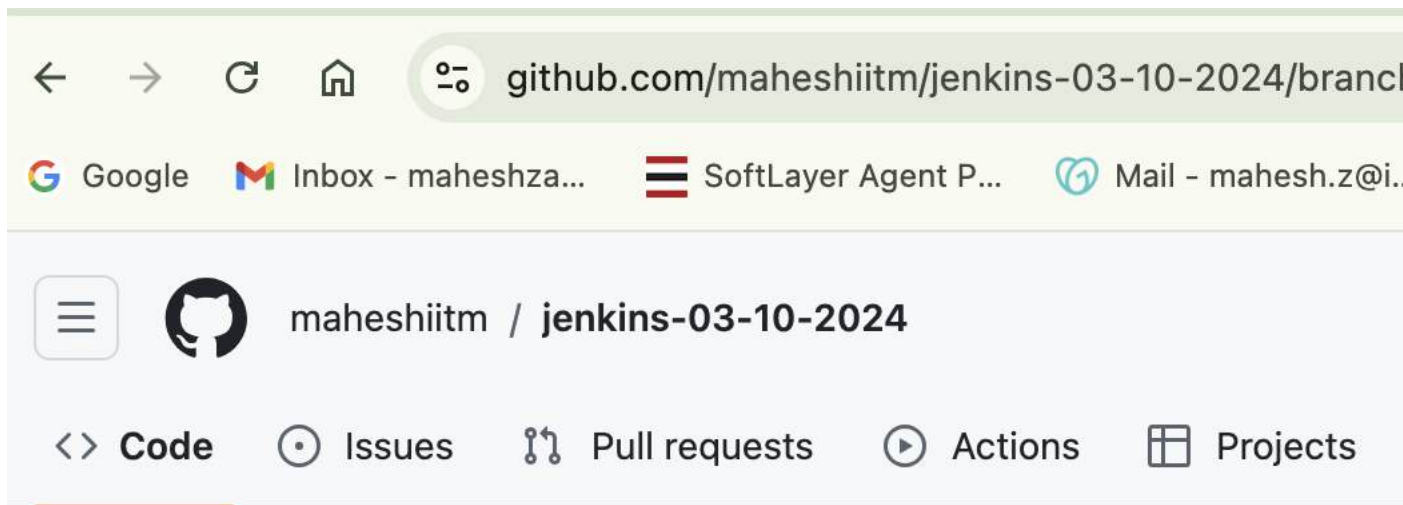


**Add a README**

Help people interested in this repository understand your p

Add a README

Click on branch to create new branch Develop



← → ↻ 🏠 🔍 github.com/maheshiitm/jenkins-03-10-2024/branches

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☰ 🐱 maheshiitm / jenkins-03-10-2024

<> **Code** ⓘ Issues 🔗 Pull requests ▶ Actions 📁 Projects

## Branches

Overview Yours Active Stale All

🔍 Search branches...

### Default

| Branch |   |
|--------|---|
| main   | 📄 |

Click on new bbranch



## Branches

Overview Yours Active Stale All

🔍 Search branches...

### Default

Branch

main



### Create a branch

#### New branch name

develop

#### Source

main ▼

## Branches

Overview **Yours** Active Stale All

Search branches...

### Default

| Branch |  |
|--------|--|
| main   |  |

### Your branches

| Branch  |  |
|---------|--|
| develop |  |

### Active branches

| Branch  |  |
|---------|--|
| develop |  |

Develop branch is created

github.com/maheshiitm/jenkins-03-10-2024/tree/develop

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maheshiitm

/ jenkins-03-10-2024

<> Code

Issues

Pull requests

Actions

Projects

jenkins-03-10-2024

Public

develop

2 Branches

0 Tags

This branch is up to date with 

main

.

maheshiitm

Create main.txt

main.txt

Create main.txt

Click on create a new file



jenkins-03-10-2024

Public

develop

2 Branches 0 Tags

Q G

This branch is up to date with `main`.



maheshiitm Create main.txt



main.txt

Create main.txt



README



# jenkins-03-10-2024

Publicdevelop2 Branches 0 TagsQ G

This branch is up to date with main.



**maheshiitm** Create main.txt



main.txt

Create main.txt



README

Commit the changes

Jenkins folder created in both slave1 and slave 2 EC2 Instance

```
OpenJDK Runtime Environment (build 11.0.24+8-post-Ubuntu-1
OpenJDK 64-Bit Server VM (build 11.0.24+8-post-Ubuntu-1ubu
ubuntu@ip-172-31-20-238:~$ ls
jenkins
ubuntu@ip-172-31-20-238:~$
```

i-03295c22c94a10a9b (jenkins-s2)

PublicIPs: 35.91.227.75 PrivateIPs: 172.31.20.238

```
OpenJDK Runtime Environment (build 11.0.24+8-post-Ubuntu-1
OpenJDK 64-Bit Server VM (build 11.0.24+8-post-Ubuntu-1ubu
ubuntu@ip-172-31-29-247:~$ ls
jenkins
ubuntu@ip-172-31-29-247:~$
```

i-0dbef24397f147956 (jenkins-s1)

PublicIPs: 34.220.113.116 PrivateIPs: 172.31.29.247

```
ubuntu@ip-172-31-20-238:~$ ls
jenkins
ubuntu@ip-172-31-20-238:~$ cd jenkins
ubuntu@ip-172-31-20-238:~/jenkins$ ls
remoting remoting.jar
ubuntu@ip-172-31-20-238:~/jenkins$
```

i-03295c22c94a10a9b (jenkins-s2)

PublicIPs: 35.91.227.75 PrivateIPs: 172.31.20.238

```
ubuntu@ip-172-31-29-247:~$ ls
jenkins
ubuntu@ip-172-31-29-247:~$ cd jenkins
ubuntu@ip-172-31-29-247:~/jenkins$ ls
remoting remoting.jar
ubuntu@ip-172-31-29-247:~/jenkins$
```

i-0dbef24397f147956 (jenkins-s1)

PublicIPs: 34.220.113.116 PrivateIPs: 172.31.29.247

Once job is created workspace folder will be created



## New Item

Enter an item name

Select an item type



### Freestyle project

Classic, general-purpose job type with optional pre- and post-build steps like archiving artifacts



### Pipeline

Orchestrates long-running activities (called stages) and/or organizes them into workflows (known as workflows) and/or organizes them into pipelines



### Multi-configuration project

Suitable for projects that need a large number of platform-specific builds, etc.



### Folder

Creates a container that stores new items. When a folder creates a separate namespace for its items. Different folders.



### Multibranch Pipeline

Creates a set of Pipeline projects automatically



### Organization Folder

Creates a set of multibranch projects

OK



## Configure



General



Source Code Management



Build Triggers



Build Environment



Build Steps



Post-build Actions

## General

Description

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 [?](#)

slave1

[Label slave1](#) matches 1 node. Permissions or other restrictions

Advanced [v](#)

Copy the URL from HHTS not from SSH option in the github





maheshiitm / jenkins-03-10-2024

<> **Code**

🕒 Issues

🔗 Pull requests

▶ Actions

📁 Projects



**jenkins-03-10-2024**

Public

🔗 develop ▾

🔗 2 Branches

🏷 0 Tags

This branch is **1 commit ahead of** **main**.



**maheshiitm** Create develop.txt

📄 develop.txt

Create

📄 main.txt

Create

📖 **README**

**Add a**

Help people interested in this repository

Paste in Jenkins repository URR



⚠ Not Secure

35.87.121.232:8080/job/job1/configure



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Mail - mahesh.z@

Dashboard > job1 > Configuration

# Configure



General



Source Code Management



Build Triggers



Build Environment



Build Steps



Post-build Actions



None



Git ?

Repositories ?

Repository URL

https://github.com

Credentials ?

- none -

+ Add ▾

Advanced ▾

Add Repository

Branches to build

Branch Specifier

\*/master

Now save it



Not Secure

35.87.121.232:8080/job/job1/configure



Google



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Mail - mahesh.z@i

Dashboard > job1 > Configuration

## Configure



General



Source Code Management



Build Triggers



Build Environment



Build Steps



Post-build Actions



Delete workspace



Use secret text(s)



Add timestamps to



Inspect build log fo



Terminate a build if



With Ant ?

### Build Steps

Add build step ▾

### Post-build Actions

Add post-build action

Save

App



# Jenkins

Dashboard > job1 >



Status

## job1



Changes

## Permalinks



Workspace



Build Now



Configure



Delete Project



Rename

Now click on build now



Status



Changes



Workspace



Build Now



Configure



Delete Project



Rename

## job1

## Permalinks



Build History

trend ▾



Filter...



✓ #1

| 05-Oct-2024, 11:37 am



Atom feed for all



Atom feed for failures

```
Last login: Thu Oct  3 11:04:07 2024 from 18.237.140.164
ubuntu@ip-172-31-29-247:~$ ls
jenkins
ubuntu@ip-172-31-29-247:~$ cd jenkins/
ubuntu@ip-172-31-29-247:~/jenkins$ ls
remoting  remoting.jar  workspace
ubuntu@ip-172-31-29-247:~/jenkins$ cd workspace/
ubuntu@ip-172-31-29-247:~/jenkins/workspace$ ls
job1
ubuntu@ip-172-31-29-247:~/jenkins/workspace$ cd job1/
ubuntu@ip-172-31-29-247:~/jenkins/workspace/job1$ ls
main.txt
ubuntu@ip-172-31-29-247:~/jenkins/workspace/job1$
```

i-Odbef24397f147956 (jenkins-s1)

PublicIPs: 54.203.174.28 PrivateIPs: 172.31.29.247

```
ubuntu@ip-172-31-29-247:~/jenkins/workspace/job1$ ls
main.txt
ubuntu@ip-172-31-29-247:~/jenkins/workspace/job1$ cat main
This is main.txt file in the main branch
ubuntu@ip-172-31-29-247:~/jenkins/workspace/job1$
```

i-Odbef24397f147956 (jenkins-s1)

PublicIPs: 54.203.174.28 PrivateIPs: 172.31.29.247





## New Item

Enter an item name

Select an item type



### Freestyle project

Classic, general-purpose project with post-build steps like arch



### Pipeline

Orchestrates long-running jobs (known as workflows) and



### Multi-configuration project

Suitable for projects that require platform-specific builds, c



### Folder

Creates a container that serves as a parent for other items. When a folder creates a separate set of different folders.

OK

Click on OK

## Configure



General



Source Code Management



Build Triggers



Build Environment



Build Steps



Post-build Actions

☐

Throttle builds ?

☐

Execute concurrent

☒

Restrict where this

Label Expression

slave2 |

Label slave2 matches

Advanced ▾

### Source Code Manager

☐

None

☒

Git ?

Repositories ?

Repository URL

https://github.co

Dashboard > job2 > Configuration

## Configure



General



Source Code Management



Build Triggers



Build Environment



Build Steps



Post-build Actions

Add Repository

Branches to build

Branch Specifier

\*/develop

Add Branch

Repository browser

(Auto)

Additional Behaviour

Add ▾

Now click on save

Click on build now



Status



Changes



Workspace



Build Now



Configure



Delete Project



Rename

## job2

## Permalinks



Build History

trend ▾



Filter...



✓ #1

| 05-Oct-2024, 4:25 pm



Atom feed for all



Atom feed for failures

Job2 created in slave2 EC2

```
Last login: Thu Oct  3 11:04:33 2024 from 18.237.140.165
ubuntu@ip-172-31-20-238:~$ ls
jenkins
ubuntu@ip-172-31-20-238:~$ cd jenkins/
ubuntu@ip-172-31-20-238:~/jenkins$ ls
remoting  remoting.jar  workspace
ubuntu@ip-172-31-20-238:~/jenkins$ cd workspace/
ubuntu@ip-172-31-20-238:~/jenkins/workspace$ ls
job2
ubuntu@ip-172-31-20-238:~/jenkins/workspace$ cd job2/
ubuntu@ip-172-31-20-238:~/jenkins/workspace/job2$ ls
develop.txt  main.txt
ubuntu@ip-172-31-20-238:~/jenkins/workspace/job2$ cat deve
This is develop.txt file
ubuntu@ip-172-31-20-238:~/jenkins/workspace/job2$
```

i-03295c22c94a10a9b (jenkins-s2)

PublicIPs: 35.161.213.180 PrivateIPs: 172.31.20.238

Now connect 2 jobs

Go to dashboard



Dashboard >


+ New Item

 Build History

 Project Relationship

 Check File Fingerprint

 Manage Jenkins

 My Views

## Build Queue



No builds in the queue.

## Build Executor Status



 Built-In Node

1 Idle

2 Idle

 slave1

1 Idle

 slave2

All



S

W



Icon:

S

M

L

Now click on job1 go to configure

Then click





## Configure



General



Source Code Management



Build Triggers



Build Environment



Build Steps



Post-build Actions

## General

Description

Plain text [Preview](#)

☐

Discard old builds

☐

GitHub project

☐

This project is para

☐

Throttle builds ?

☐

Execute concurren

☒

Restrict where this

Label Expression

Save

App

Click on build other project



Not Secure

35.87.121.232:8080/job/job1/configure



Google



Inbox - maheshza...



SoftLayer Agent P...



Mail - mahesh.z@

Dashboard > job1 > Configuration

## Configure



General



Source Code Management



Build Triggers



Build Environment



Build Steps



Post-build Actions



Delete workspace



Use secret text(s)



Filter

Aggregate downstream

Archive the artifacts

Build other projects

Publish JUnit test results

Record fingerprints of files

Git Publisher

E-mail Notification

Editable Email Notification

Set GitHub commit status

Set build status on GitHub

Delete workspace when build fails

Add post-build action

Save

Apply



Not Secure

35.87.121.232:8080/job/job1/configure



Google



Inbox - maheshza...



SoftLayer Agent P...



Mail - mahesh.z@i

Dashboard > job1 > Configuration

## Configure

Add build step ▾



General



Source Code Management



Build Triggers



Build Environment



Build Steps



Post-build Actions

### Post-build Actions



Build other projects

Projects to build

job2, |



Trigger only if build



Trigger even if the



Trigger even if the

Add post-build action

Save

App

Type job2 and Click on save



Dashboard >

+ New Item

 Build History

 Project Relationship

 Check File Fingerprint

 Manage Jenkins

 My Views

## Build Queue



No builds in the queue.

## Build Executor Status



 Built-In Node

1 Idle

2 Idle

 slave1

All



S

W




Icon:

S

M

L


Now run job 1 it will show job 2 also run





# Jenkins


Dashboard >


+ New Item


 Build History


 Project Relationship


 Check File Fingerprint

 Manage Jenkins

 My Views



Build Queue (1) 



job2 

All 

S

W

Icon: 

S

M

L



# Jenkins

Dashboard >

+ New Item

 Build History

 Project Relationship

 Check File Fingerprint

 Manage Jenkins

 My Views

All

+

S

W



## Build Queue



No builds in the queue.

## Build Executor Status



 Built-In Node

1 Idle

Icon:

S

M

L



Job executed 0.52 sec before

Copy Jenkins URI

<http://35.87.121.232:8080/>

go to webhook



maheshiitm / jenkins-03-10-2024

<> Code

🔍 Issues

🔗 Pull requests

🎬 Actions

📁 Projects

⚙️ General

Access

👤 Collaborators

💬 Moderation options ▾

Code and automation

🔗 Branches

🏷️ Tags

📄 Rules ▾

🎬 Actions ▾

🔗 **Webhooks**

📁 Environments

💻 Codespaces

📄 Pages

Security

🔍 Code security

🔑 Deploy keys

## Webhook

Webhooks allow  
send a POST re





maheshiitm / jenkins-03-10-2024

<> Code

🕒 Issues

🔗 Pull requests

🎬 Actions

📁 Projects

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🔑 Branches

🏷️ Tags

📄 Rules ▾

🎬 Actions ▾

🔗 **Webhooks**

📁 Environments

💻 Codespaces

📄 Pages

Security

🔍 Code security

🔑 Deploy keys

**Webhooks / A**

We'll send a P  
format you'd  
[documentation](#)

**Payload URL**

**Content type**

**Secret**

**SSL verificat**

🔒 By default, v

☒ **Enable SS**

**Which events**

☒ Just the p



maheshiitm / jenkins-03-10-2024

<> Code

🔍 Issues

🔗 Pull requests

▶ Actions

📁 Projects

⚙️ General

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Code and automation

🔗 Branches

🏷️ Tags

📄 Rules



▶ Actions



🔗 **Webhooks**

📁 Environments

💻 Codespaces

📄 Pages

## Webhooks

Webhooks allow  
send a POST rec

✓ <http://35.87.1>

Last delivery was





# Configure



General



Source Code Management



Build Triggers



Build Environment



Build Steps



Post-build Actions

## Build Triggers

☐

Trigger builds remotely

☐

Build after other projects

☐

Build periodically

☒

GitHub hook trigger

☐

Poll SCM ?

## Build Environment

☐

Delete workspace before build

☐

Use secret text(s) in build

☐

Add timestamps to build log

☐

Inspect build log for errors

☐

Terminate a build if it fails

☐

With Ant ?

## Build Steps

Click on github hook trigger

And click on save

github.com/maheshiitm/jenkins-03-10-2024/new/

GoogleInbox - maheshza...SoftLayer Agent P...Mail - mahesh.z@

maheshiitm / jenkins-03-10-2024

<> Code

Issues

Pull requests

Actions

Projects

jenkins-03-10-2024 /

Name your file...

in 

main

Edit

Preview

Code 55% faster with GitHub Copilot

1

Enter file contents here





maheshiitm / jenkins-03-10-2024

<> **Code**

🕒 Issues

🔗 Pull requests

🎬 Actions

📁 Projects



🔗 main ▾

jenkins-03-10-2024 /



**maheshiitm** Create main1.txt

Name



main.txt



main1.txt



# Jenkins

Dashboard >

+ New Item

 Build History

 Project Relationship

 Check File Fingerprint

 Manage Jenkins

 My Views

All

+

S

W



## Build Queue



No builds in the queue.

Icon:

S

M

L

## Build Executor Status



 Built-In Node

1 Idle

2 Idle

 slave1

```
Last login: Sat Oct 5 16:26:16 2024 from 18.237.140.165
ubuntu@ip-172-31-29-247:~$ ls
jenkins
ubuntu@ip-172-31-29-247:~$ jenkins/
-bash: jenkins/: Is a directory
ubuntu@ip-172-31-29-247:~$ cd jenkins/
ubuntu@ip-172-31-29-247:~/jenkins$ ls
remoting  remoting.jar  workspace
ubuntu@ip-172-31-29-247:~/jenkins$ cd workspace/
ubuntu@ip-172-31-29-247:~/jenkins/workspace$ ls
job1
ubuntu@ip-172-31-29-247:~/jenkins/workspace$ cd job1/
ubuntu@ip-172-31-29-247:~/jenkins/workspace/job1$ ls
main.txt  main1.txt
ubuntu@ip-172-31-29-247:~/jenkins/workspace/job1$ cat main
ubuntu@ip-172-31-29-247:~/jenkins/workspace/job1$
```

i-Odbef24397f147956 (jenkins-s1)

PublicIPs: 54.203.174.28 PrivateIPs: 172.31.29.247

