

SBL Experiment 1

```
ASHISH@DESKTOP-94613C4 MINGW64 ~
$ git config --global user.name "aryannaik225"

ASHISH@DESKTOP-94613C4 MINGW64 ~
$ git config --global user.email "aryann2203@gmail.com"

ASHISH@DESKTOP-94613C4 MINGW64 ~
$ git config --list
diff.astextplain.textconv=astextplain
filter.lfs.clean=git-lfs clean -- %f
filter.lfs.smudge=git-lfs smudge -- %f
filter.lfs.process=git-lfs filter-process
filter.lfs.required=true
http.sslbackend=schannel
core.autocrlf=true
core.fscache=true
core.symlinks=false
pull.rebase=false
credential.helper=manager
credential.https://dev.azure.com.usehttppath=true
init.defaultbranch=master
core.editor="C:\Users\ASHISH\AppData\Local\Programs\Microsoft VS Code\bin\code" --wait
user.name=aryannaik225
user.email=aryann2203@gmail.com

ASHISH@DESKTOP-94613C4 MINGW64 ~
$ cd Desktop

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop
$ mkdir sblproject

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop
$ cd sblproject

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject
$ git init
Initialized empty Git repository in C:/Users/ASHISH/Desktop/sblproject/.git/
```

```
ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject (master)
$ git clone https://github.com/aryannaik225/SBEL_DB.git
Cloning into 'SBEL_DB'...
remote: Enumerating objects: 3, done.
remote: Counting objects: 100% (3/3), done.
remote: Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
Receiving objects: 100% (3/3), done.

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject (master)
$ git add .
warning: adding embedded git repository: SBEL_DB
hint: You've added another git repository inside your current repository.
hint: Clones of the outer repository will not contain the contents of
hint: the embedded repository and will not know how to obtain it.
hint: If you meant to add a submodule, use:
hint:     git submodule add <url> SBEL_DB
hint:
hint: If you added this path by mistake, you can remove it from the
hint: index with:
hint:     git rm --cached SBEL_DB
hint:
hint: See "git help submodule" for more information.
hint: Disable this message with "git config set advice.addEmbeddedRepo false"
```

```

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject (master)
$ git commit -m "Initial commit"
[master (root-commit) ca8644a] Initial commit
1 file changed, 1 insertion(+)
create mode 160000 SBEL_DB

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject (master)
$ git status
On branch master
Changes not staged for commit:
  (use "git add <file>..." to update what will be committed)
  (use "git restore <file>..." to discard changes in working directory)
  (commit or discard the untracked or modified content in submodules)
        modified:   SBEL_DB (untracked content)

no changes added to commit (use "git add" and/or "git commit -a")

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject (master)
$ git branch test

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject (master)
$ git branch -a
* master
  test

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject (master)
$ git checkout -b test
fatal: a branch named 'test' already exists

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject (master)
$ git checkout -b test2
Switched to a new branch 'test2'

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject (test2)
$ git merge test
Already up to date.

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject (test2)
$ git log
commit ca8644aebb7a7adcad3dadd16a623af53c330e99 (HEAD -> test2, test, master)
Author: aryannaik225 <aryann2203@gmail.com>
Date: Thu Oct 23 18:47:46 2025 +0530

    Initial commit

ASHISH@DESKTOP-94613C4 MINGW64 ~/Desktop/sblproject (test2)
$ git reflog
ca8644a (HEAD -> test2, test, master) HEAD@{0}: checkout: moving from master to test2
ca8644a (HEAD -> test2, test, master) HEAD@{1}: commit (initial): Initial commit

```

SBL Experiment 2

```
PS C:\Users\Aryan> cd .\Desktop\  
PS C:\Users\Aryan\Desktop> git  
usage: git [-v | --version] [-h | --help] [-C <path>] [-c <name>=<value>]  
        [--exec-path[=<path>]] [--html-path] [--man-path] [--info-path]  
        [-p | --paginate | -P | --no-pager] [--no-replace-objects] [--no-lazy-fetch]  
        [--no-optional-locks] [--no-advice] [--bare] [--git-dir=<path>]  
        [--work-tree=<path>] [--namespace=<name>] [--config-env=<name>=<envvar>]  
        <command> [<args>]
```

These are common Git commands used in various situations:

start a working area (see also: `git help tutorial`)

clone	Clone a repository into a new directory
init	Create an empty Git repository or reinitialize an existing one

work on the current change (see also: `git help everyday`)

add	Add file contents to the index
mv	Move or rename a file, a directory, or a symlink
restore	Restore working tree files
rm	Remove files from the working tree and from the index

examine the history and state (see also: `git help revisions`)

bisect	Use binary search to find the commit that introduced a bug
diff	Show changes between commits, commit and working tree, etc
grep	Print lines matching a pattern
log	Show commit logs
show	Show various types of objects
status	Show the working tree status

grow, mark and tweak your common history

backfill	Download missing objects in a partial clone
branch	List, create, or delete branches
commit	Record changes to the repository
merge	Join two or more development histories together
rebase	Reapply commits on top of another base tip
reset	Reset current HEAD to the specified state
switch	Switch branches
tag	Create, list, delete or verify a tag object signed with GPG

collaborate (see also: `git help workflows`)

fetch	Download objects and refs from another repository
pull	Fetch from and integrate with another repository or a local branch
push	Update remote refs along with associated objects

'`git help -a`' and '`git help -g`' list available subcommands and some concept guides. See '`git help <command>`' or '`git help <concept>`'

to read about a specific subcommand or concept.

See '`git help git`' for an overview of the system.

```
PS C:\Users\Aryan\Desktop> mkdir EXP2
```

Directory: C:\Users\Aryan\Desktop

Mode	LastWriteTime	Length	Name
d-----	10/22/2025 9:36 AM		EXP2

```
PS C:\Users\Aryan\Desktop> cd EXP2
PS C:\Users\Aryan\Desktop\EXP2> echo "# EXP2" >> README.md
PS C:\Users\Aryan\Desktop\EXP2> cat .\README.md
# EXP2
PS C:\Users\Aryan\Desktop\EXP2> git init
Initialized empty Git repository in C:/Users/Aryan/Desktop/EXP2/.git/
PS C:\Users\Aryan\Desktop\EXP2> git add README.md
PS C:\Users\Aryan\Desktop\EXP2> git commit -m "first commit"
[master (root-commit) 68d7811] first commit
1 file changed, 0 insertions(+), 0 deletions(-)
create mode 100644 README.md
PS C:\Users\Aryan\Desktop\EXP2> git branch -M main
PS C:\Users\Aryan\Desktop\EXP2> git remote add origin https://github.com/aryannaik225/EXP2.git
PS C:\Users\Aryan\Desktop\EXP2> git push -u origin main
info: please complete authentication in your browser...
PS C:\Users\Aryan\Desktop\EXP2> git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (3/3), 238 bytes | 238.00 KiB/s, done.
Total 3 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/aryannaik225/EXP2.git
 * [new branch]      main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\Aryan\Desktop\EXP2> git push [--tags][remote]
fatal: '[remote]' does not appear to be a git repository
fatal: Could not read from remote repository.

Please make sure you have the correct access rights
and the repository exists.
PS C:\Users\Aryan\Desktop\EXP2> git fetch
PS C:\Users\Aryan\Desktop\EXP2> git tag
PS C:\Users\Aryan\Desktop\EXP2> git tag [test1][commit sha]
fatal: Failed to resolve 'sha' as a valid ref.
PS C:\Users\Aryan\Desktop\EXP2> git log --oneline
68d7811 (HEAD -> main, origin/main, origin/HEAD) first commit
PS C:\Users\Aryan\Desktop\EXP2> git tag test1
PS C:\Users\Aryan\Desktop\EXP2> git tag -a v1.0 68d7811 -m "Version 1.0 Release"
>> git tag test2 68d7811
PS C:\Users\Aryan\Desktop\EXP2> git tag
test1
test2
v1.0
```

```

PS C:\Users\Aryan\Desktop\EXP2> git push --tags
Enumerating objects: 1, done.
Counting objects: 100% (1/1), done.
Writing objects: 100% (1/1), 176 bytes | 176.00 KiB/s, done.
Total 1 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/aryannaik225/EXP2.git
 * [new tag]          test1 -> test1
 * [new tag]          test2 -> test2
 * [new tag]          v1.0 -> v1.0
PS C:\Users\Aryan\Desktop\EXP2> git tag -d test1
Deleted tag 'test1' (was 68d7811)
PS C:\Users\Aryan\Desktop\EXP2> git log --oneline
68d7811 (HEAD -> main, tag: v1.0, tag: test2, origin/main, origin/HEAD) first commit
PS C:\Users\Aryan\Desktop\EXP2> git reset 68d7811
PS C:\Users\Aryan\Desktop\EXP2> git reset --hard 68d7811
HEAD is now at 68d7811 first commit
PS C:\Users\Aryan\Desktop\EXP2> git revert 68d7811
[main 781b71d] Revert "First Commit"
 1 file changed, 0 insertions(+), 0 deletions(-)
 delete mode 100644 README.md
PS C:\Users\Aryan\Desktop\EXP2> git push -u origin main
Enumerating objects: 3, done.
Counting objects: 100% (3/3), done.
Writing objects: 100% (2/2), 210 bytes | 210.00 KiB/s, done.
Total 2 (delta 0), reused 0 (delta 0), pack-reused 0 (from 0)
To https://github.com/aryannaik225/EXP2.git
 68d7811..781b71d  main -> main
branch 'main' set up to track 'origin/main'.
PS C:\Users\Aryan\Desktop\EXP2> git push --tags
Everything up-to-date
PS C:\Users\Aryan\Desktop\EXP2> git fetch
From https://github.com/aryannaik225/EXP2.git
 * [new tag]          test1 -> test1
PS C:\Users\Aryan\Desktop\EXP2> git fetch --prune origin
>> git fetch --prune origin
PS C:\Users\Aryan\Desktop\EXP2> git pull origin
Already up to date.

```

The screenshot shows the GitHub interface for a repository named "EXP2" by user "aryannaik225". The repository is private. The main branch is "main", and there is 1 branch and 0 tags. The repository has 2 commits, with the latest commit being a revert of the initial commit, made 1 minute ago. The repository description is "No description, website, or topics provided." The repository has 0 stars, 0 watchers, and 0 forks. There are no releases or packages published. The repository is currently up-to-date with the origin.

SBL Experiment 3

Getting Started

Create First Admin User

Username

Password

Confirm password

Full name

E-mail address

Jenkins 2.516.3

[Skip and continue as admin](#) [Save and Continue](#)



+ New Item

Build History

Build Queue

No builds in the queue.

Build Executor Status

0/2

Welcome to Jenkins!

This page is where your Jenkins jobs will be displayed. To get started, you can set up distributed builds or start building a software project.

Start building your software project

Create a job



Set up a distributed build

Set up an agent



Configure a cloud



Learn more about distributed builds



Add description

New Item

Enter an item name

MyFirstJob

Select an item type



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

Creates 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.



Multibranch Pipeline

Creates a set of Pipeline projects according to detected branches in one SCM repository.

OK



Jenkins

MyFirstJob

Configuration

Q I

Configure

General

Source Code Management

Triggers

Environment

Build Steps

Post-build Actions

☐ Inspect build log for published build scans

☐ Terminate a build if it's stuck

☐ With Ant ?

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

Execute Windows batch command ?

Command

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

echo "Hello, Jenkins is working!"

Advanced ▾



Console Output

Download

Started by user [Manas Patekar](#)

Running as SYSTEM

Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\MyFirstJob

[MyFirstJob] \$ cmd /c call C:\WINDOWS\TEMP\jenkins11190561438879303844.bat

C:\ProgramData\Jenkins\.jenkins\workspace\MyFirstJob>echo "Hello, Jenkins is working!"

"Hello, Jenkins is working!"

C:\ProgramData\Jenkins\.jenkins\workspace\MyFirstJob>exit 0

Finished: SUCCESS

SBL Experiment 4

New Item

Enter an item name

MyScriptedPipeline

Select an item type



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

Creates 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.



Multibranch Pipeline

Creates a set of Pipeline projects according to detected branches in one SCM repository.

OK



Jenkins / MyScriptedPipeline / Configuration



Configure

General

Triggers

Pipeline

Advanced

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script

Script ?

```
1 node {
2   stage('Build') {
3     echo 'Building the application...'
4   }
5   stage('Test') {
6     echo 'Running tests...'
7   }
8   stage('Deploy') {
9     echo 'Deploying application to server...'
10  }
11  stage('Monitor') {
12    echo 'Monitoring application...'
13  }
14 }
15
```

☒ Use Groovy Sandbox ?

[Pipeline Syntax](#)

Save

Apply

Status

Changes

Console Output

Edit Build Information

Delete build '#1'

Timings

Pipeline Overview

Replay

Pipeline Steps

Workspaces

Console Output

```
Started by user Manas Patekar
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\ProgramData\Jenkins\.jenkins\workspace\MyScriptedPipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] echo
Building the application...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] echo
Running tests...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] echo
Deploying application to server...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Monitor)
[Pipeline] echo
Monitoring application...
[Pipeline] }
[Pipeline] // stage
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

Search Settings User

#1

Rerun

Manually run by Manas Patekar Started 12 min ago Queued 10 ms Took 0.91 sec

Graph



Search

Filter

Build

39ms

Started 12m ago

Jenkins

More

Build: 39ms

Building the application...

13ms

Test: 26ms

Deploy: 26ms

Monitor: 21ms

New Item

Enter an item name

MyDeclarativePipeline

Select an item type



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

Creates 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.



Multibranch Pipeline

Creates a set of Pipeline projects according to detected branches in one SCM repository.

OK



Madmax2810 / JenkinsTest



Code



Issues



Pull requests



Actions



Projects



Wiki



Security



Insights



Settings



Files



main



Go to file



Jenkinsfile

JenkinsTest / Jenkinsfile



Madmax2810 Create Jenkinsfile

Code

Blame

25 lines (25 loc) · 522 Bytes

```
1 pipeline {
2   agent any
3   stages {
4     stage('Build') {
5       steps {
6         echo 'Building the application...'
7       }
8     }
9     stage('Test') {
10      steps {
11        echo 'Running tests...'
12      }
13    }
14    stage('Deploy') {
15      steps {
16        echo 'Deploying application to server...'
17      }
18    }
19    stage('Monitor') {
20      steps {
21        echo 'Monitoring application...'
22      }
23    }
24  }
25 }
```

Configure

- General
- Triggers
- Pipeline
- Advanced

Pipeline

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script from SCM

SCM

Git

Repositories

Repository URL

https://github.com/Madmax2810/jenkinsTest.git

Credentials

- none -

+ Add

Advanced

Add Repository

Status

Changes

Console Output

Edit Build Information

Delete build '#2'

Timings

Git Build Data

Pipeline Overview

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

Console Output

```
Started by user Manas Patekar
Obtained Jenkinsfile from git https://github.com/Madmax2810/JenkinsTest.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\ProgramData\Jenkins\jenkins\workspace\MyDeclarativePipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/Madmax2810/JenkinsTest.git
> git.exe init C:\ProgramData\Jenkins\jenkins\workspace\MyDeclarativePipeline # timeout=10
Fetching upstream changes from https://github.com/Madmax2810/JenkinsTest.git
> git.exe --version # timeout=10
> git --version # 'git version 2.51.0.windows.1'
> git.exe fetch --tags --force --progress -- https://github.com/Madmax2810/JenkinsTest.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe config remote.origin.url https://github.com/Madmax2810/JenkinsTest.git # timeout=10
> git.exe config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git.exe rev-parse "refs/remotes/origin/main^(commit)" # timeout=10
Checking out Revision 6559bbde96da42452609dbb7d9ae3fe7b82cf2f5 (refs/remotes/origin/main)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 6559bbde96da42452609dbb7d9ae3fe7b82cf2f5 # timeout=10
Commit message: "Create Jenkinsfile"
First time build. Skipping changelog.
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] echo
```

#3

Manually run by Manas Patekar Started 11 sec ago Queued 2 ms Took 2.8 sec



Search

Checkout SCM 1.1s

Build 44ms

Test 33ms

Deploy 31ms

Monitor 31ms

Monitor

31ms Started 8.5s ago Jenkins

Monitoring application...

11ms

SBL Experiment 5

This screenshot shows the main page of the 'JenkinsTest' repository on GitHub, owned by 'Madmax2810'. The repository is public and has 1 branch (main) and 0 tags. The commit history shows three recent commits: 'HelloWorld.java' (4 minutes ago), 'Jenkinsfile' (1 minute ago), and 'build.bat' (3 minutes ago). The README section is currently empty, with a prompt to 'Add a README'. The right sidebar contains sections for 'About' (no description), 'Releases' (no releases published), 'Packages' (no packages published), and 'Languages' (Java 54.6%, Batchfile 45.4%).

This screenshot shows the 'HelloWorld.java' file view within the 'JenkinsTest' repository. The file was created by 'Madmax2810' and consists of 5 lines of code (5 loc) and 142 bytes. The code is as follows:

```
1 public class HelloWorld {
2     public static void main(String[] args) {
3         System.out.println("Hello, JenkinsTest CI/CD Build!");
4     }
5 }
```

This screenshot shows the 'build.bat' file view within the 'JenkinsTest' repository. The file was created by 'Madmax2810' and consists of 6 lines of code (6 loc) and 119 bytes. The code is as follows:

```
1 @echo off
2 echo Compiling Java files...
3 javac src\HelloWorld.java
4 echo Running program...
5 java -cp src HelloWorld
6 pause
```

☰

🐙

Madmax2810 / JenkinsTest

<> Code

🔍 Issues

🔗 Pull requests

🎬 Actions

📁 Projects

📖 Wiki

🛡 Security

📈 Insights

⚙ Settings

📁 Files

🔍 main

🔍 Go to file

HelloWorld.java

Jenkinsfile

build.bat

JenkinsTest / Jenkinsfile

👤 Madmax2810 Update Jenkinsfile

Code

Blame

22 lines (22 loc) · 490 Bytes

```
1 pipeline {
2   agent any
3   stages {
4     stage('Build') {
5       steps {
6         echo 'Compiling Java project...'
7         bat 'javac HelloWorld.java'
8       }
9     }
10    stage('Test') {
11      steps {
12        echo 'Running the application...'
13        bat 'java HelloWorld'
14      }
15    }
16    stage('Deploy') {
17      steps {
18        echo 'Deploy step: simulate deployment'
19      }
20    }
21  }
22 }
```

🐙 Jenkins

JenkinsTestPipeline

Configuration

🔍

Configure

⚙ General

🕒 Triggers

🔗 Pipeline

🔑 Advanced

Define your Pipeline using Groovy directly or pull it from source control.

Definition

Pipeline script from SCM

SCM

Git

Repositories

Repository URL

https://github.com/Madmax2810/JenkinsTest.git

Specify the URL or path of the git repository. This uses the same syntax as your `git clone` command.

(from Git plugin)

Credentials

- none -

+ Add

Advanced

Add Description

Save

Apply

✓ Console Output

```
Started by user Manas Patekar
Obtained Jenkinsfile from git https://github.com/Madmax2810/JenkinsTest.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\ProgramData\Jenkins\.jenkins\workspace\JenkinsTestPipeline
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Checkout SCM)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
Cloning the remote Git repository
Cloning repository https://github.com/Madmax2810/JenkinsTest.git
> git.exe init C:\ProgramData\Jenkins\.jenkins\workspace\JenkinsTestPipeline # timeout=10
Fetching upstream changes from https://github.com/Madmax2810/JenkinsTest.git
> git.exe --version # timeout=10
> git --version # 'git version 2.51.0.windows.1'
> git.exe fetch --tags --force --progress -- https://github.com/Madmax2810/JenkinsTest.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git.exe config remote.origin.url https://github.com/Madmax2810/JenkinsTest.git # timeout=10
> git.exe config --add remote.origin.fetch +refs/heads/*:refs/remotes/origin/* # timeout=10
Avoid second fetch
> git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10
Checking out Revision 7bb44e50651b5de06afeffc337abcc0633e82988 (refs/remotes/origin/main)
> git.exe config core.sparsecheckout # timeout=10
> git.exe checkout -f 7bb44e50651b5de06afeffc337abcc0633e82988 # timeout=10
Commit message: "Update Jenkinsfile"
```

 **Jenkins** / JenkinsTestPipeline / #1 / Pipeline Overview

✓ #1 >

 Manually run by Manas Patekar  Started 1 min 37 sec ago  Queued 25 ms  Took 7.2 sec

Graph



Q Search

✓ Checkout SCM 1.6s

✓ Build 0.94s

✓ Test 0.33s

✓ Deploy 46ms

✓ Deploy

✓ Deploy step: simulate deployment

⊞ Deploy step: simulate deployment

First time build. Skipping changelog.

```
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] withEnv  
[Pipeline] {  
[Pipeline] stage  
[Pipeline] { (Build)  
[Pipeline] echo
```

Compiling Java project...

```
[Pipeline] bat
```

C:\ProgramData\Jenkins\.jenkins\workspace\JenkinsTestPipeline>javac HelloWorld.java

```
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Test)  
[Pipeline] echo
```

Running the application...

```
[Pipeline] bat
```

C:\ProgramData\Jenkins\.jenkins\workspace\JenkinsTestPipeline>java HelloWorld

Hello, JenkinsTest CI/CD Build!

```
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] stage  
[Pipeline] { (Deploy)  
[Pipeline] echo
```

Deploy step: simulate deployment

```
[Pipeline] }  
[Pipeline] // stage  
[Pipeline] }  
[Pipeline] // withEnv  
[Pipeline] }  
[Pipeline] // node  
[Pipeline] End of Pipeline
```

Finished: SUCCESS

SBL Experiment 6

Sample1.py X

Sample1.py > ...

```
1 from selenium import webdriver
2 from selenium.webdriver.chrome.service import Service
3 from selenium.webdriver.chrome.options import Options
4 from webdriver_manager.chrome import ChromeDriverManager
5 from selenium.webdriver.common.keys import Keys
6 import time
7
8 print("Sample test case started")
9
10 # Setup Chrome options for headless mode (optional)
11 options = Options()
12 options.add_argument("--headless") # Comment out if you want to see the browser
13 options.add_argument("--disable-gpu")
14
15 # Use webdriver-manager to automatically handle ChromeDriver
16 service = Service(ChromeDriverManager().install())
17 driver = webdriver.Chrome(service=service, options=options)
18
19 # Open Google
20 driver.get("https://www.google.com/")
21 driver.maximize_window()
22
23 # Search for javatpoint
24 search_box = driver.find_element("name", "q")
25 search_box.send_keys("javatpoint")
26 search_box.send_keys(Keys.ENTER)
27
28 time.sleep(3) # wait for results
29
30 driver.quit()
31 print("Sample test case successfully completed")
32
```

```
Collecting colorama<0.4.6, from pytest>
  Using cached colorama-0.4.6-py2.py3-none-any.whl.metadata (17 kB)
Collecting iniconfig>=1 (from pytest)
  Using cached iniconfig-2.1.0-py3-none-any.whl.metadata (2.7 kB)
Requirement already satisfied: packaging>=20 in e:\codes\seleniumTest\venv\lib\site-packages (from pytest)
Collecting pluggy<2, >=1.5 (from pytest)
  Using cached pluggy-1.6.0-py3-none-any.whl.metadata (4.8 kB)
Collecting pygments>=2.7.2 (from pytest)
  Using cached pygments-2.19.2-py3-none-any.whl.metadata (2.5 kB)
Using cached pytest-8.4.2-py3-none-any.whl (365 kB)
Using cached pluggy-1.6.0-py3-none-any.whl (20 kB)
Using cached colorama-0.4.6-py2.py3-none-any.whl (25 kB)
Using cached iniconfig-2.1.0-py3-none-any.whl (6.0 kB)
Using cached pygments-2.19.2-py3-none-any.whl (1.2 MB)
Installing collected packages: pygments, pluggy, iniconfig, colorama
Successfully installed colorama-0.4.6 iniconfig-2.1.0 pluggy-1.6.0 pytest-8.4.2
(venv) PS E:\Codes\SeleniumTest> vscode
vscode: The term 'vscode' is not recognized as a name of a cmdlet, function, script file, or executable program.
Check the spelling of the name, or if a path was included, verify that the path points to the correct location.
(venv) PS E:\Codes\SeleniumTest> code
(venv) PS E:\Codes\SeleniumTest> python Sample1.py
Sample test case started
Sample test case successfully completed
(venv) PS E:\Codes\SeleniumTest>
```

New Item

Enter an item name

SeleniumTestJob

Select an item type



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

Creates 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.



Multibranch Pipeline

Creates a set of Pipeline projects according to detected branches in one SCM repository.

OK

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

Execute Windows batch command

Command

See the list of available environment variables

```
:: Go to project directory
cd C:\SeleniumTest

:: Install packages (optional if already installed)
"C:\Users\Manas Patekar\AppData\Local\Programs\Python\Python313\python.exe" -m pip install --upgrade pip
"C:\Users\Manas Patekar\AppData\Local\Programs\Python\Python313\python.exe" -m pip install selenium webdriver-manager

:: Run the Selenium test
"C:\Users\Manas Patekar\AppData\Local\Programs\Python\Python313\python.exe" Sample1.py
```

Advanced

Add build step



Console Output

```
Started by user Manas Patekar
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\workspace\JenkinsTestJob
[JenkinsTestJob] $ cmd /c call C:\WINDOWS\TEMP\Jenkins151901072797111346.bat

C:\ProgramData\Jenkins\workspace\JenkinsTestJob>cd C:\JenkinsTest

C:\JenkinsTest>"C:\Users\Manas Patekar\AppData\Local\Programs\Python\Python313\python.exe" -m pip install --upgrade pip
Requirement already satisfied: pip in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (25.2)

C:\JenkinsTest>"C:\Users\Manas Patekar\AppData\Local\Programs\Python\Python313\python.exe" -m pip install selenium webdriver-manager
Requirement already satisfied: selenium in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (4.36.0)
Requirement already satisfied: webdriver-manager in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (4.0.2)
Requirement already satisfied: urllib3<3.0,>=2.5.0 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from selenium) (2.5.0)
Requirement already satisfied: trio<1.0,>=0.30.0 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from selenium) (0.31.0)
Requirement already satisfied: trio-websocket<1.0,>=0.12.2 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from selenium) (0.12.2)
Requirement already satisfied: certifi<=2025.6.15 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from selenium) (2025.10.5)
Requirement already satisfied: typing_extensions<5.0,>=4.14.0 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from selenium) (4.15.0)
Requirement already satisfied: websocket-client<2.0,>=1.8.0 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from selenium) (1.8.0)
Requirement already satisfied: attrs<=23.2.0 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from trio<1.0,>=0.30.0->selenium) (25.3.0)
Requirement already satisfied: sortedcontainers in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from trio<1.0,>=0.30.0->selenium) (2.4.0)
Requirement already satisfied: idna in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from trio<1.0,>=0.30.0->selenium) (3.10)
Requirement already satisfied: outcome in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from trio<1.0,>=0.30.0->selenium) (1.3.0.post0)
Requirement already satisfied: sniffio<=1.3.0 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from trio<1.0,>=0.30.0->selenium) (1.3.1)
Requirement already satisfied: cffi<=1.14 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from trio<1.0,>=0.30.0->selenium) (2.0.0)
Requirement already satisfied: wsproto<=0.14 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from trio-websocket<1.0,>=0.12.2->selenium) (1.2.0)
Requirement already satisfied: pysocks<=1.5.7,<2.0,>=1.5.6 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from urllib3[socks]<3.0,>=2.5.0->selenium) (1.7.1)
Requirement already satisfied: requests in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from webdriver-manager) (2.32.5)
Requirement already satisfied: python-dotenv in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from webdriver-manager) (1.1.1)
Requirement already satisfied: packaging in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from webdriver-manager) (25.0)
Requirement already satisfied: pycparser in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from cffi<=1.14->trio<1.0,>=0.30.0->selenium) (2.23)
Requirement already satisfied: h11<1,>=0.9.0 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from wsproto<=0.14->trio-websocket<1.0,>=0.12.2->selenium) (0.16.0)
Requirement already satisfied: charset_normalizer<4,>=2 in c:\users\manas patekar\appdata\local\programs\python\python313\lib\site-packages (from requests->webdriver-manager) (3.4.3)

C:\JenkinsTest>"C:\Users\Manas Patekar\AppData\Local\Programs\Python\Python313\python.exe" Sample1.py
Sample test case started
Sample test case successfully completed

C:\JenkinsTest>exit 0
Finished: SUCCESS
```


SBL Experiment 7

```
PS C:\Users\Manas Patekar> docker --version
Docker version 28.4.0, build d8eb465
PS C:\Users\Manas Patekar> docker pull ubuntu
Using default tag: latest
latest: Pulling from library/ubuntu
Digest: sha256:728785b59223d755e3e5c5af178fab1be7031f3522c5ccd7a0b32b80d8248123
Status: Image is up to date for ubuntu:latest
docker.io/library/ubuntu:latest
PS C:\Users\Manas Patekar> docker run -it ubuntu
root@f481cle55763:/# ls
bin boot dev etc home lib lib64 media mnt opt proc root run sbin srv sys usr var
root@f481cle55763:/# tree
bash: tree: command not found
root@f481cle55763:/# exit
exit
PS C:\Users\Manas Patekar> docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
f481cle55763   ubuntu    "/bin/bash"             19 seconds ago Exited (127)  5 seconds ago                intelligent_davinci
b30190793c6a   ubuntu    "/bin/bash"             3 minutes ago  Exited (100)  3 minutes ago                cranky_tesla
bacfd540a0d8   ubuntu    "/bin/bash"             6 minutes ago  Exited (0)    4 minutes ago                nostalgic_carson
PS C:\Users\Manas Patekar> docker rm f481cle55763
f481cle55763
PS C:\Users\Manas Patekar> docker ps -a
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
b30190793c6a   ubuntu    "/bin/bash"             4 minutes ago  Exited (100)  4 minutes ago                cranky_tesla
bacfd540a0d8   ubuntu    "/bin/bash"             7 minutes ago  Exited (0)    5 minutes ago                nostalgic_carson
PS C:\Users\Manas Patekar> cd E:\Codes
PS E:\Codes> mkdir DockerTest

Directory: E:\Codes

Mode                LastWriteTime         Length Name
----                -
d-----            10/5/2025   1:47 PM          DockerTest

PS E:\Codes> cd .\DockerTest\
PS E:\Codes\DockerTest> docker build -t myubuntu:1.0 .
[*] Building 17.0s (9/9) FINISHED                                docker:desktop-linux
=> [internal] load build definition from Dockerfile                0.0s
=> => transferring dockerfile: 407B                                0.0s
=> [internal] load metadata for docker.io/library/ubuntu:latest   0.1s
=> [internal] load .dockerignore                                  0.0s
=> => transferring context: 2B                                       0.0s
=> [1/4] FROM docker.io/library/ubuntu:latest@sha256:728785b59223d755e3e5c5af178fab1be7031f3522c5ccd7a0b32b80d82 0.0s
=> => resolve docker.io/library/ubuntu:latest@sha256:728785b59223d755e3e5c5af178fab1be7031f3522c5ccd7a0b32b80d82 0.0s
=> [internal] load build context                                  0.0s
=> => transferring context: 407B                                       0.0s
=> [2/4] RUN apt-get update && apt-get install -y curl            13.9s
=> [3/4] WORKDIR /app                                              0.0s
=> [4/4] COPY . /app                                               0.0s
=> exporting to image                                             2.8s
=> => exporting layers                                              2.3s
=> => exporting manifest sha256:db3e81a51f97464b295e5b4fc0f436cdc4d6bbee7e90d726668d191b7df42779      0.0s
=> => exporting config sha256:c773a73a1482bd1f729366d7fab055b22b06013cc456d98ac6c853cf16d6c240      0.0s
=> => exporting attestation manifest sha256:1d06c2021283f45d4f278c4f52cb59dfdb61ebccbf504e774c8c7d98a929f2b6 0.0s
=> => exporting manifest list sha256:fc44947472ad5e6ee033e9376176cf477da5061b3a472754d5438bc9e343fd6e 0.0s
=> => naming to docker.io/library/myubuntu:1.0                    0.0s
=> => unpacking to docker.io/library/myubuntu:1.0                  0.5s
PS E:\Codes\DockerTest> docker images
REPOSITORY   TAG       IMAGE ID       CREATED        SIZE
myubuntu     1.0       fcd4947472ad   6 seconds ago  234MB
ubuntu       latest    728785b59223   4 days ago     117MB
PS E:\Codes\DockerTest> docker run -it myubuntu:1.0
root@8c59411269d1:/app# ls
Dockerfile
root@8c59411269d1:/app# exit
exit
PS E:\Codes\DockerTest> docker ps
CONTAINER ID   IMAGE      COMMAND                  CREATED        STATUS        PORTS          NAMES
PS E:\Codes\DockerTest> docker tag myubuntu:2.0 yourdockerid/myubuntu:2.0
Error response from daemon: No such image: myubuntu:2.0
PS E:\Codes\DockerTest> docker tag myubuntu:1.0 yourdockerid/myubuntu:1.0
PS E:\Codes\DockerTest> docker push yourdockerid/myubuntu:2.0
The push refers to repository [docker.io/yourdockerid/myubuntu]
tag does not exist: yourdockerid/myubuntu:2.0
PS E:\Codes\DockerTest> docker push yourdockerid/myubuntu:1.0
The push refers to repository [docker.io/yourdockerid/myubuntu]
c4e1e1bcd1e: Waiting
57db23a30019: Waiting
fd36ebe8ed80: Waiting
ff55db968a96: Waiting
ala21c96bc16: Waiting
push access denied, repository does not exist or may require authorization: server message: insufficient_scope: authoriz
ation failed
```

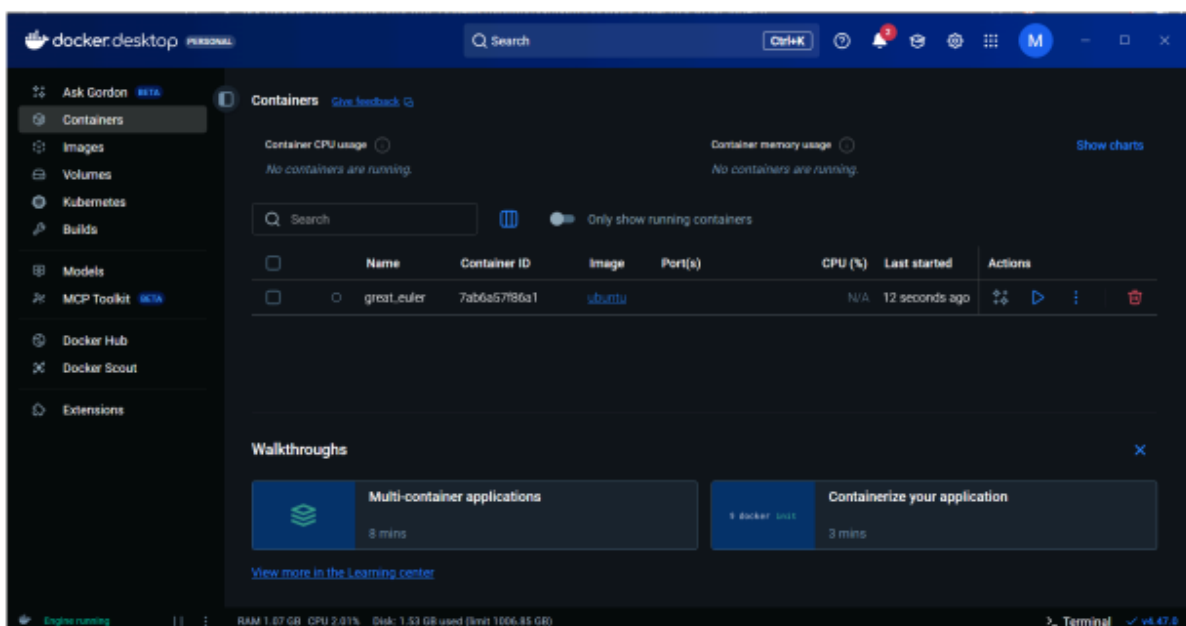
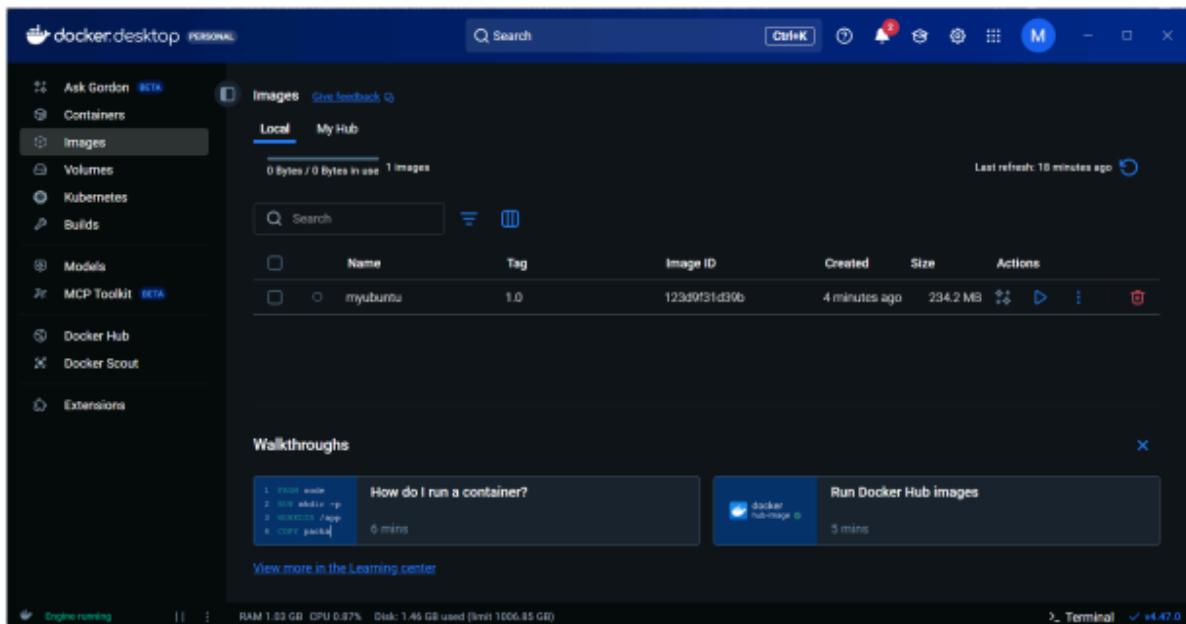
```

PS E:\Codes\DockerTest> docker container prune
WARNING! This will remove all stopped containers.
Are you sure you want to continue? [y/N] y
Deleted Containers:
8c59411269d18217de38924f765df94d40838e7059df0ad9d892c33dad06d6cd
b30198793c6a6bc4ec69e96265fa439ead400ca541aff9ca3eba759adc84f909
bacfd540a8d8785eabd4f2537fdde64ca5e6292133982ce271562816a99c7e

Total reclaimed space: 53.25kB
PS E:\Codes\DockerTest> docker image prune -a
WARNING! This will remove all images without at least one container associated to them.
Are you sure you want to continue? [y/N] y
Deleted Images:
untagged: myubuntu:1.0
untagged: ubuntu:latest
untagged: yourdockerid/myubuntu:1.0
deleted: sha256:fcd4947472ad5e6ee033e9376176cf477da5061b3a472754d5438bc9e343fd6e
deleted: sha256:db3e81a51f97464b295e5b4fc0f436cdc4d6bbe7e90d726668d191b7df42779
deleted: sha256:1d06c2021283f45d4f278c4f52cb59dfdb61ebccb504e774c8c7d98a929f2b6

Total reclaimed space: 5.807kB
PS E:\Codes\DockerTest>

```



SBL Experiment 8

hello.php

Dockerfile X

Dockerfile > ...

```
1 FROM php
2 COPY ./ ./
3 EXPOSE 3000
4 CMD ["php", "-S", "0.0.0.0:3000"]
5
```

hello.php X

Dockerfile

hello.php

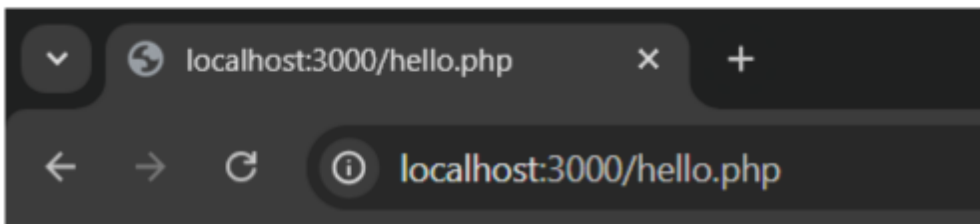
```
1 <html>
2 <?php echo "Hello world from PHP container"; ?>
3 </html>
4
```

PowerShell

```
PS E:\Codes\DockerTest> cd ..
PS E:\Codes> cd .\PHP_Hello_Docker\
PS E:\Codes\PHP_Hello_Docker> code
PS E:\Codes\PHP_Hello_Docker> docker build . -t madmax862/myfirstphp_image
ERROR: error during connect: Head "http://%2F%2F.%2Fpipe%2FdockerDesktopLinuxEngine/_ping": open //./pipe/dockerDesktopLinuxEngine: The system cannot find the file specified.
PS E:\Codes\PHP_Hello_Docker> docker build . -t madmax862/myfirstphp_image
[+] Building 19.3s (8/8) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 106B
=> [internal] load metadata for docker.io/library/php:latest
=> [auth] library/php:pull token for registry-1.docker.io
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build context
=> => transferring context: 210B
=> [1/2] FROM docker.io/library/php:latest@sha256:a627efe3590141fb90893d2db373020b67c0f297a05a92ab1e4fd2f9fb8af 14.9s
=> resolve docker.io/library/php:latest@sha256:a627efe3590141fb90893d2db373020b67c0f297a05a92ab1e4fd2f9fb8af 0.0s
=> sha256:2a748a0ae287f1586ac98174aad9951757dc3aca87a8ecafdb89d11e8381690d 243B / 243B 0.8s
=> sha256:7ddbe15ad087a9a647054d9bb10b1cb416f1ae23c36cc11abb89265ac065b3e 246B / 246B 1.3s
=> sha256:6cd96089a4f55707e66400d41eb45e4d0c965d7ebf358038292f82ee506337b5 2.45kB / 2.45kB 1.0s
=> sha256:cd234445d8de4300deb97614f828d6b28281eb5d3b4c62043db1603b9188b85c 23.52MB / 23.52MB 2.8s
=> sha256:4a1bad354142fc57d8d7956f892061f16b34557694251c070d6eed0aafdea304 488B / 488B 1.1s
=> sha256:d1e6fbb11fc4eed3dcc2e30f5384f956cda34efa37d22dfbf416546df61c0d25 13.79MB / 13.79MB 5.3s
=> sha256:5d4d5daa83cbf8832703ed629db9046de8927468a3ce9c39a81835e3215fa9ed 225B / 225B 0.7s
=> sha256:71be4ee71309abf3b5e1ef4b7118c96352a1ff36ba81b0605b528dfc910fc8d5 117.84MB / 117.84MB 10.2s
=> sha256:99346f5284054520fef6d30aa41fe2bfb0c6d24b123fa61349f2e30773601ab8 225B / 225B 0.5s
=> sha256:8c7716127147648c1751940b9709b6325f2256290d3201662eca2701cadb2cdf 29.78MB / 29.78MB 2.9s
=> extracting sha256:8c7716127147648c1751940b9709b6325f2256290d3201662eca2701cadb2cdf 1.1s
=> extracting sha256:99346f5284054520fef6d30aa41fe2bfb0c6d24b123fa61349f2e30773601ab8 0.0s
```

```
[+] Building 0.6s (7/7) FINISHED
=> [internal] load build definition from Dockerfile
=> => transferring dockerfile: 114B
=> [internal] load metadata for docker.io/library/php:latest
=> [internal] load .dockerignore
=> => transferring context: 2B
=> [internal] load build context
=> => transferring context: 142B
=> CACHED [1/2] FROM docker.io/library/php:latest@sha256:a627efe3590141fb90893d2db373020b67c0f297a05a92able4fd2f
=> => resolve docker.io/library/php:latest@sha256:a627efe3590141fb90893d2db373020b67c0f297a05a92able4fd2f9fb8afd
=> [2/2] COPY ./ ./
=> exporting to image
=> => exporting layers
=> => exporting manifest sha256:e5b34563ab57284e57eb9fac3c559d9cbe64574f249e7678eda4e0044ac57c72
=> => exporting config sha256:8650e99460dcebc6ec62fa4b39eccf0abb04c0b684b134e2f2188c5a2868007
=> => exporting attestation manifest sha256:f4cbaa6ac6919549fd0d3528c9029c8dda8e1b8974940c5105a607916e2f559a
=> => exporting manifest list sha256:51fd20c4e20704635b1fac43b41c7dd48df8b0eb14e1ef9cca3c31f36e4f78bf
=> => naming to docker.io/madmax862/myfirstphp_image:latest
=> => unpacking to docker.io/madmax862/myfirstphp_image:latest
PS E:\Codes\PHP_Hello_Docker> docker run --name=php -p 3000:3000 madmax862/myfirstphp_image
docker: Error response from daemon: Conflict. The container name "/php" is already in use by container "9742839c06c609346035f56d4881885ef50a58d48394a9520018bd1f5a7ea5ea". You have to remove (or rename) that container to be able to reuse the name.

Run 'docker run --help' for more information
PS E:\Codes\PHP_Hello_Docker> docker run --name=php -p 3000:3000 madmax862/myfirstphp_image
[Sun Oct 5 08:34:03 2025] PHP 8.4.13 Development Server (http://0.0.0.0:3000) started
[Sun Oct 5 08:34:31 2025] 172.17.0.1:50650 Accepted
[Sun Oct 5 08:34:31 2025] 172.17.0.1:50650 [404]: GET / - No such file or directory
[Sun Oct 5 08:34:31 2025] 172.17.0.1:50650 Closing
PS E:\Codes\PHP_Hello_Docker> docker run --name=php -p 3000:3000 madmax862/myfirstphp_image
[Sun Oct 5 08:34:03 2025] PHP 8.4.13 Development Server (http://0.0.0.0:3000) started
[Sun Oct 5 08:34:31 2025] 172.17.0.1:50650 Accepted
[Sun Oct 5 08:34:31 2025] 172.17.0.1:50650 [404]: GET / - No such file or directory
[Sun Oct 5 08:34:31 2025] 172.17.0.1:50650 Closing
[Sun Oct 5 08:34:56 2025] 172.17.0.1:51126 Accepted
[Sun Oct 5 08:34:56 2025] 172.17.0.1:51126 [200]: GET /hello.php
[Sun Oct 5 08:34:56 2025] 172.17.0.1:51126 Closing
[Sun Oct 5 08:35:06 2025] 172.17.0.1:35920 Accepted
[Sun Oct 5 08:35:06 2025] 172.17.0.1:35920 [200]: GET /hello.php
[Sun Oct 5 08:35:06 2025] 172.17.0.1:35920 Closing
```



Hello world from PHP container

SBL Experiment 9

```
Manas Patekar@DESKTOP-JOGGC56 ~
$ echo $SHELL
/bin/bash

Manas Patekar@DESKTOP-JOGGC56 ~
$ ansible --version
ansible 2.8.2
  config file = /etc/ansible/ansible.cfg
  configured module search path = ['/home/Manas Patekar/.ansible/plugins/modules', '/usr/share/ansible/plugins/modules']
  ansible python module location = /usr/lib/python3.7/site-packages/ansible
  executable location = /usr/bin/ansible
  python version = 3.7.12 (default, Nov 23 2021, 18:58:07) [GCC 11.2.0]

Manas Patekar@DESKTOP-JOGGC56 ~
$ ansible all -i localhost, -c local -m ping
[WARNING]: Platform cygwin_nt-10.0-26108 on host localhost is using the discovered Python interpreter at
/usr/bin/python, but future installation of another Python interpreter could change this. See
https://docs.ansible.com/ansible/2.8/reference_appendices/interpreter_discovery.html for more information.

localhost | SUCCESS => {
  "ansible_facts": {
    "discovered_interpreter_python": "/usr/bin/python"
  },
  "changed": false,
  "ping": "pong"
}

Manas Patekar@DESKTOP-JOGGC56 ~

Manas Patekar@DESKTOP-JOGGC56 ~
$ cd ansible_project/

Manas Patekar@DESKTOP-JOGGC56 ~/ansible_project
$ vi hosts
E1187: Failed to source defaults.vim
Press ENTER or type command to continue

Manas Patekar@DESKTOP-JOGGC56 ~/ansible_project
$ vi site.yml
E1187: Failed to source defaults.vim
Press ENTER or type command to continue

Manas Patekar@DESKTOP-JOGGC56 ~/ansible_project
$ ansible-playbook -i hosts site.yml

PLAY [Test Ansible Playbook] *****

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

TASK [Ensure a directory exists] *****
ok: [localhost]

PLAY RECAP *****
localhost : ok=2  changed=0  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

Manas Patekar@DESKTOP-JOGGC56 ~/ansible_project

Manas Patekar@DESKTOP-JOGGC56 ~/ansible_project
$ #!/bin/bash
/usr/bin/ansible-playbook -i /home/Manas\ Patekar/ansible_project/hosts /home/Manas\ Patekar/ansible_project/site.yml -c
local

PLAY [Test Ansible Playbook] *****

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

TASK [Ensure a directory exists] *****
ok: [localhost]

PLAY RECAP *****
localhost : ok=2  changed=0  unreachable=0  failed=0  skipped=0  rescued=0  ignored=0

Manas Patekar@DESKTOP-JOGGC56 ~/ansible_project
$ chmod +x ~/ansible_project/run_ansible.sh
chmod: cannot access '/home/Manas Patekar/ansible_project/run_ansible.sh': No such file or directory

Manas Patekar@DESKTOP-JOGGC56 ~/ansible_project
$ cd ~/ansible_project
touch run_ansible.sh

Manas Patekar@DESKTOP-JOGGC56 ~/ansible_project
$ vi run_ansible.sh
E1187: Failed to source defaults.vim
```

Configure

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

Build Steps

Automate your build process with ordered tasks like code compilation, testing, and deployment.

Execute Windows batch command

Command

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

```
C:\cygwin64\bin\bash.exe -l -c "/home/MANASP-1/ansible_project/run_ansible.sh"
```

Advanced

Add build step

Ansible installations Edited

Add Ansible

Ansible

Name

CygunAnsible

Path to ansible executables directory

C:\cygwin64\bin\ansible-playbook

C:\cygwin64\bin\ansible-playbook is not a directory on the Jenkins controller (but perhaps it exists on some agents)

☐ Install automatically

Add Ansible

Save

Apply

Console Output

Download

Copy

View as plain text

```
Started by user Manas Patekar
Running as SYSTEM
Building in workspace C:\ProgramData\Jenkins\.jenkins\workspace\AnsibleTest
[AnsibleTest] $ cmd /c call C:\WINDOWS\TEMP\jenkins1353471663383128944.bat

C:\ProgramData\Jenkins\.jenkins\workspace\AnsibleTest>C:\cygwin64\bin\bash.exe -l -c "/home/MANASP-1/ansible_project/run_ansible.sh"

PLAY [Test Ansible Playbook] *****

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

TASK [Ensure a directory exists] *****
ok: [localhost]

PLAY RECAP *****
localhost                : ok=2    changed=0    unreachable=0    failed=0    skipped=0    rescued=0    ignored=0

C:\ProgramData\Jenkins\.jenkins\workspace\AnsibleTest>exit 0
Finished: SUCCESS
```