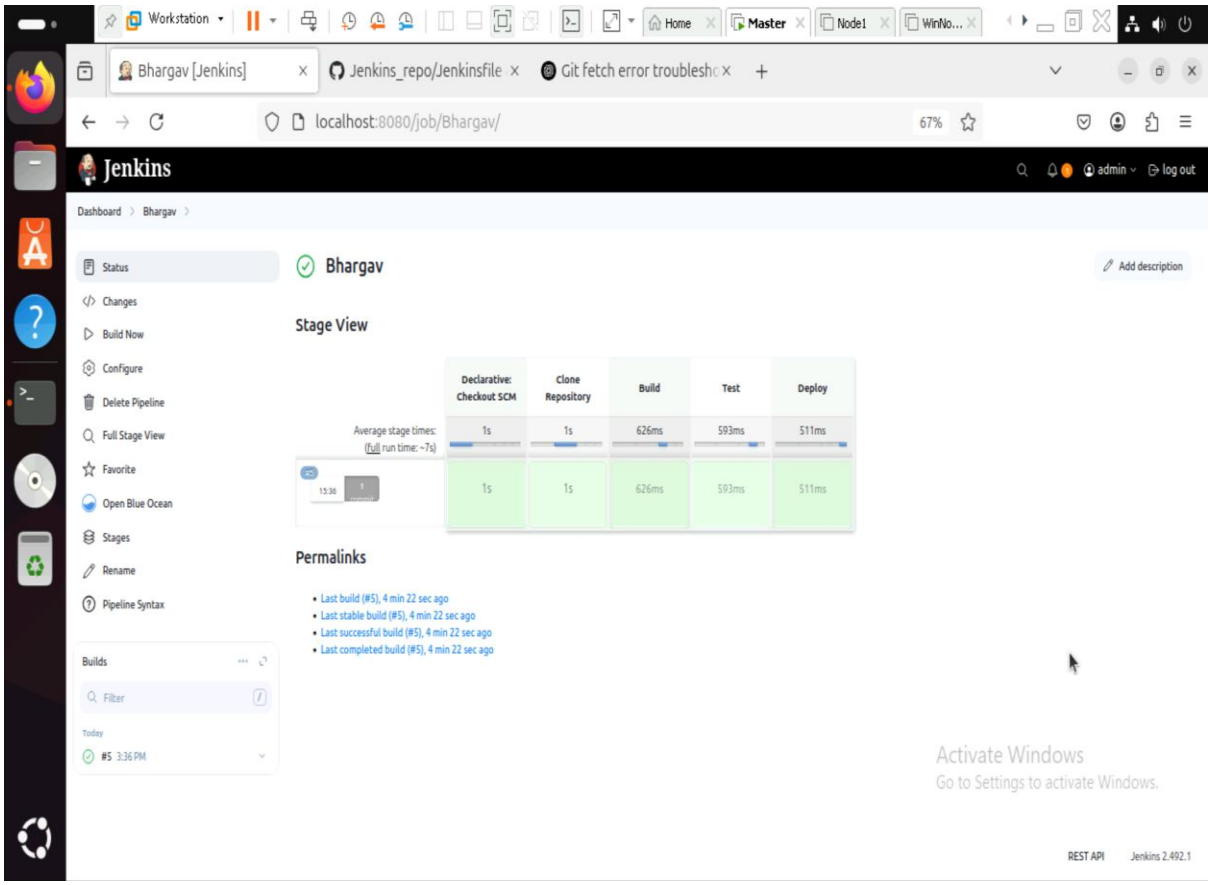
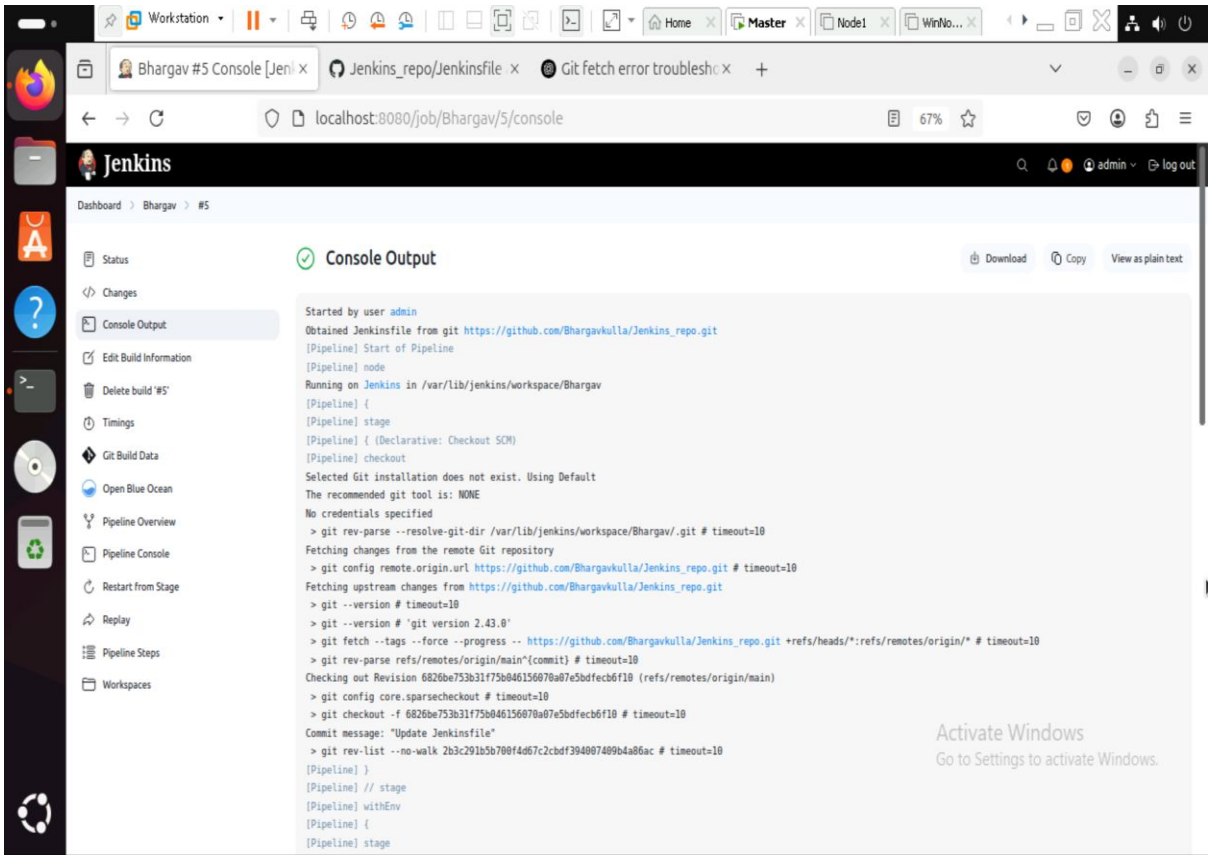
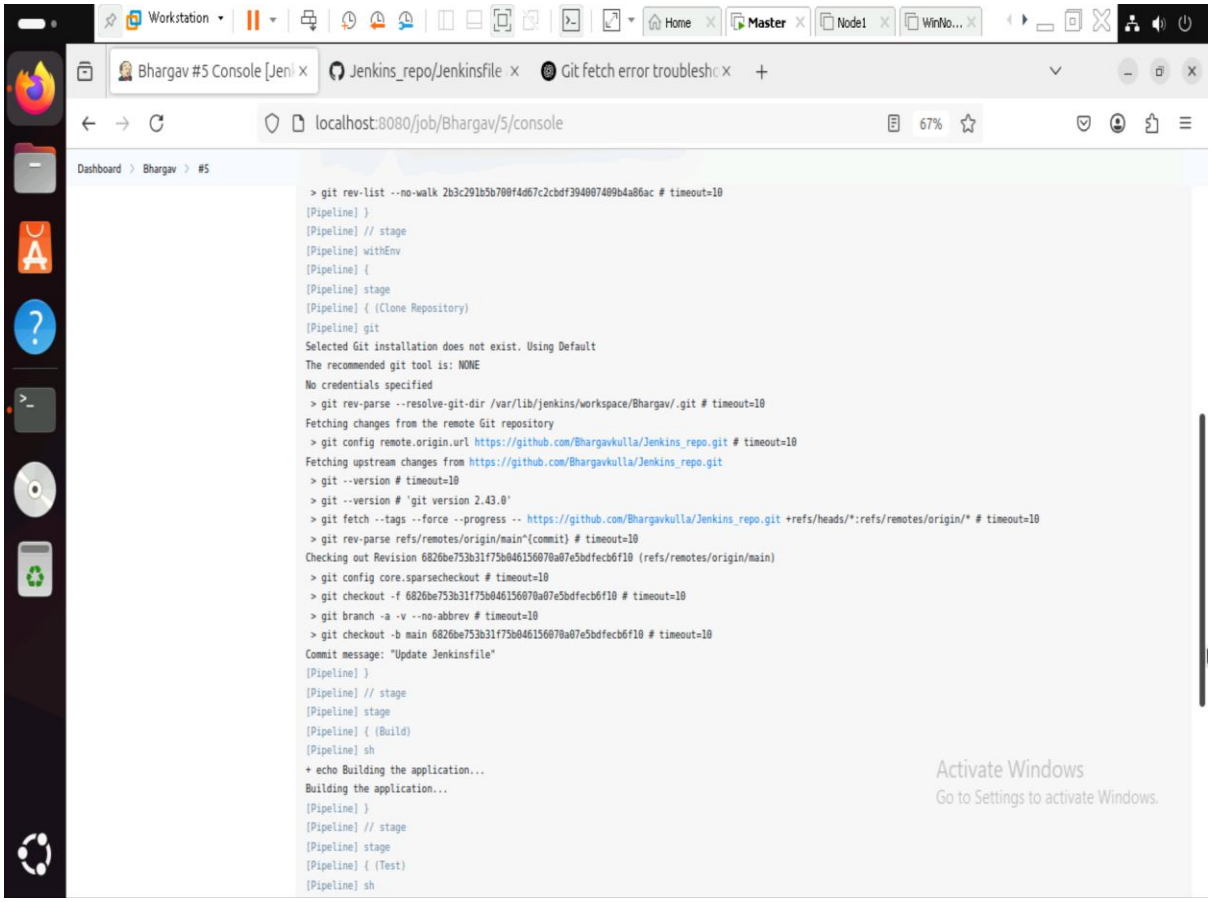
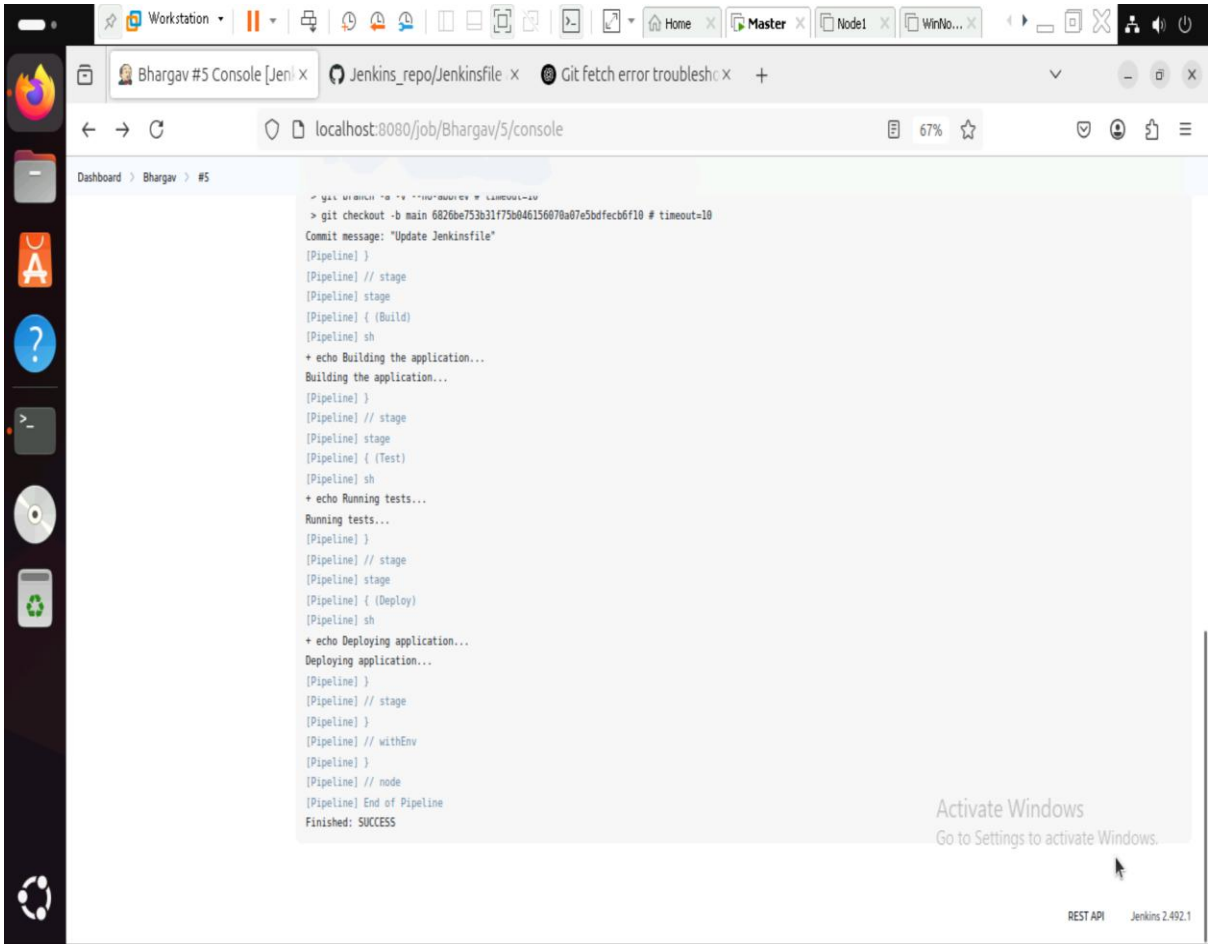
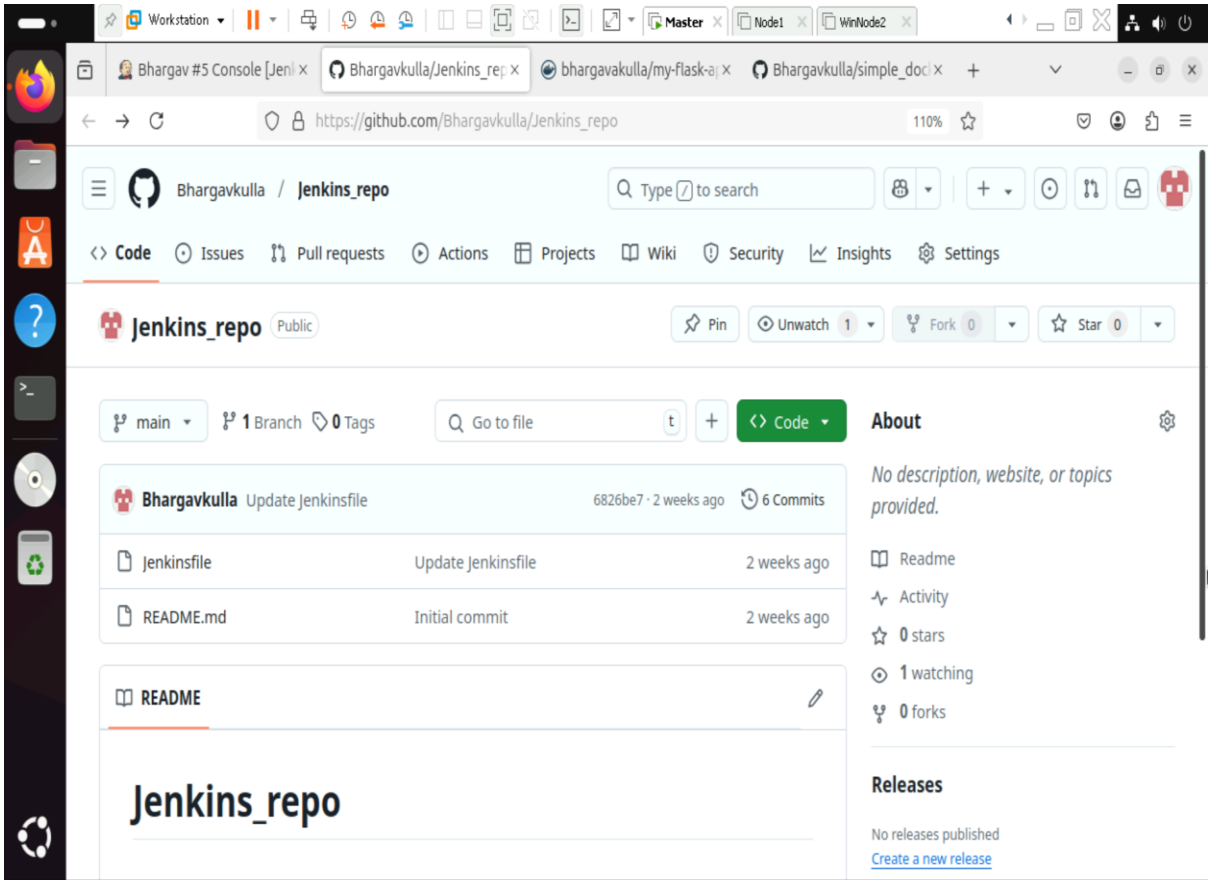
Automating CI/CD Pipeline with Groovy(Jenkins Pipeline Scripting)

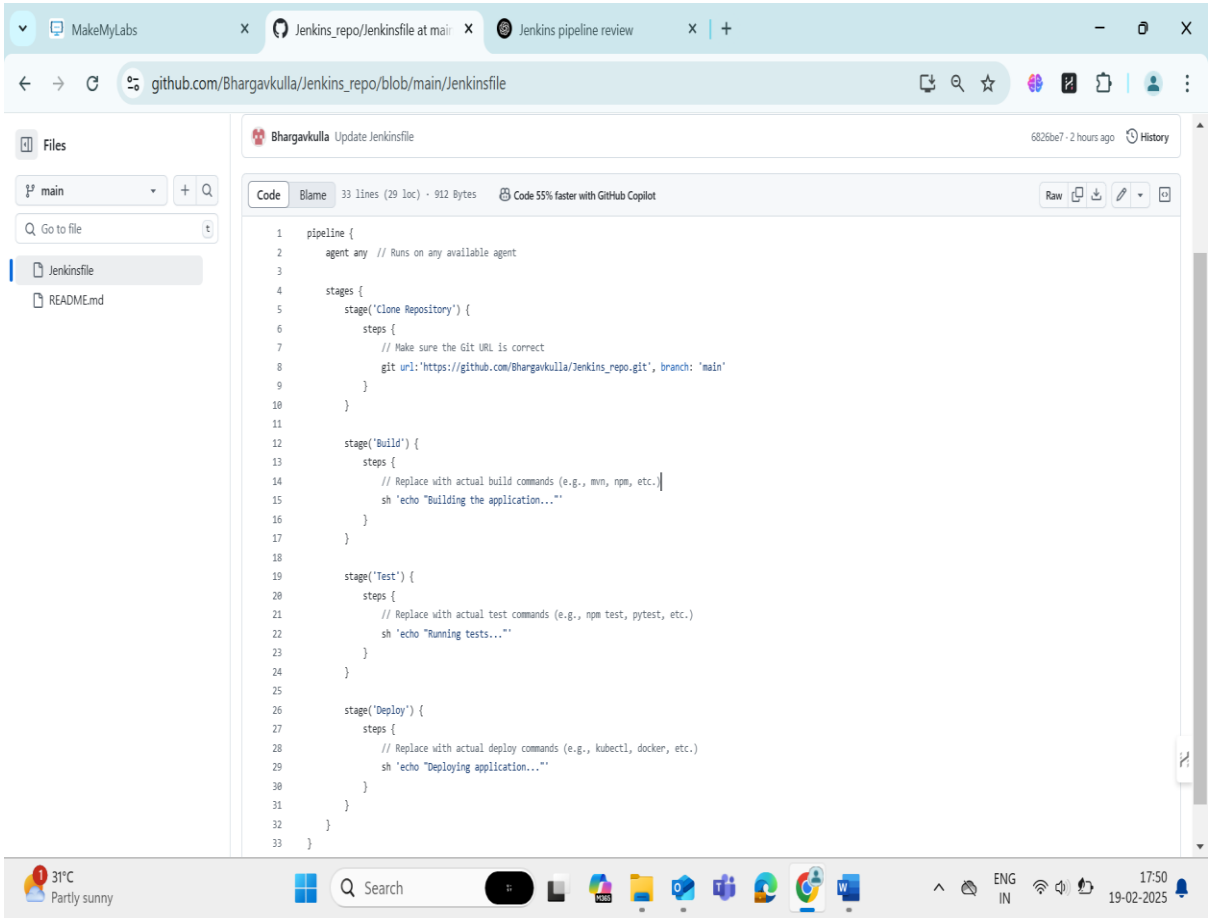




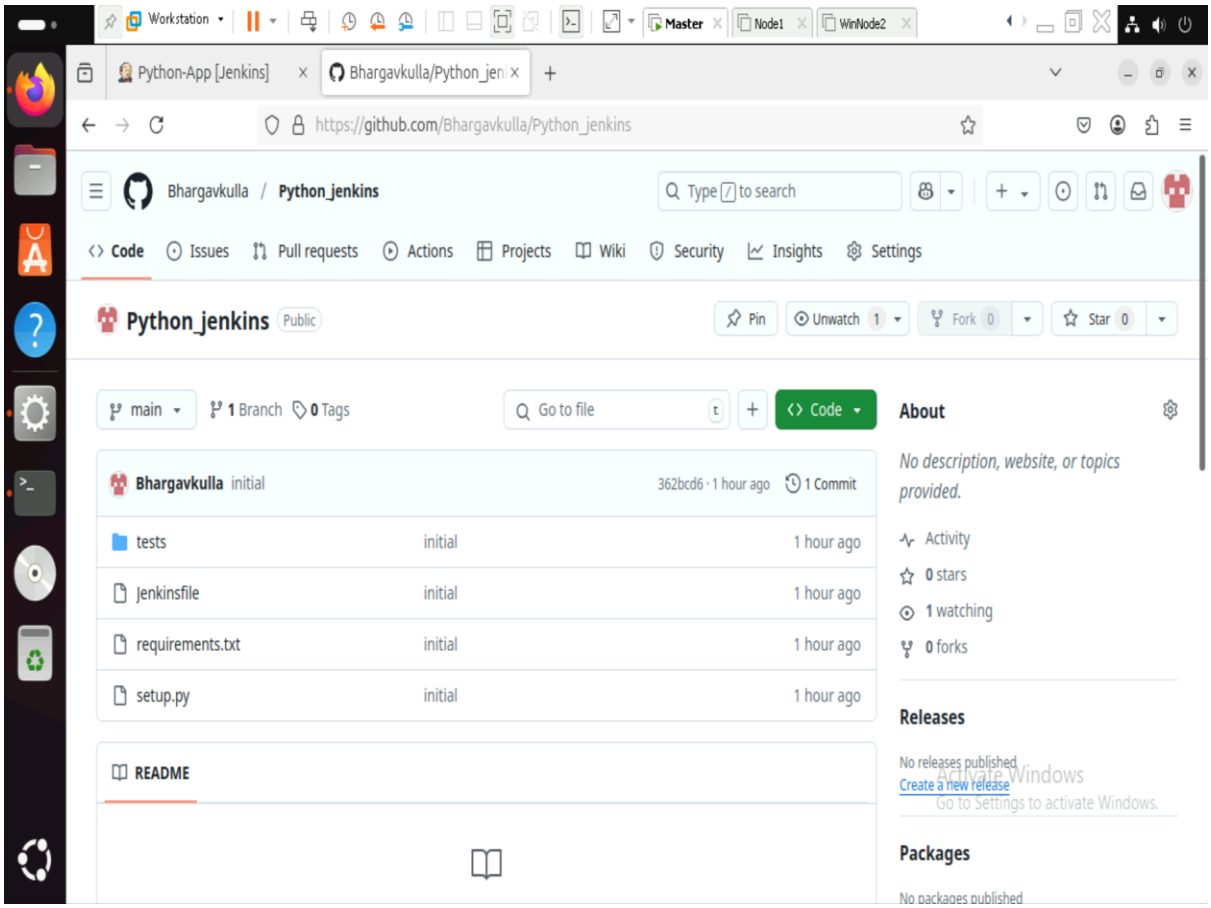

Workstation
Home
Master
Node1
WinNo...
Bhargav #5 Console [Jenk
Jenkins_repo/Jenkinsfile
Git fetch error troublesho
localhost:8080/job/Bhargav/5/console
67%
Dashboard › Bhargav › #5
> git rev-list --no-walk 2b3c291b5b700f4d67c2cbdf394007409b4a86ac # timeout=10
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Clone Repository)
[Pipeline] git
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/Bhargav/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Bhargavkulla/Jenkins_repo.git # timeout=10
Fetching upstream changes from https://github.com/Bhargavkulla/Jenkins_repo.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/Bhargavkulla/Jenkins_repo.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 6826be753b31f75b046156070a07e5bdfecb6f10 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 6826be753b31f75b046156070a07e5bdfecb6f10 # timeout=10
> git branch -a -v --no-abbrev # timeout=10
> git checkout -b main 6826be753b31f75b046156070a07e5bdfecb6f10 # timeout=10
Commit message: "Update Jenkinsfile"
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
+ echo Building the application...
Building the application...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
Activate Windows
Go to Settings to activate Windows.

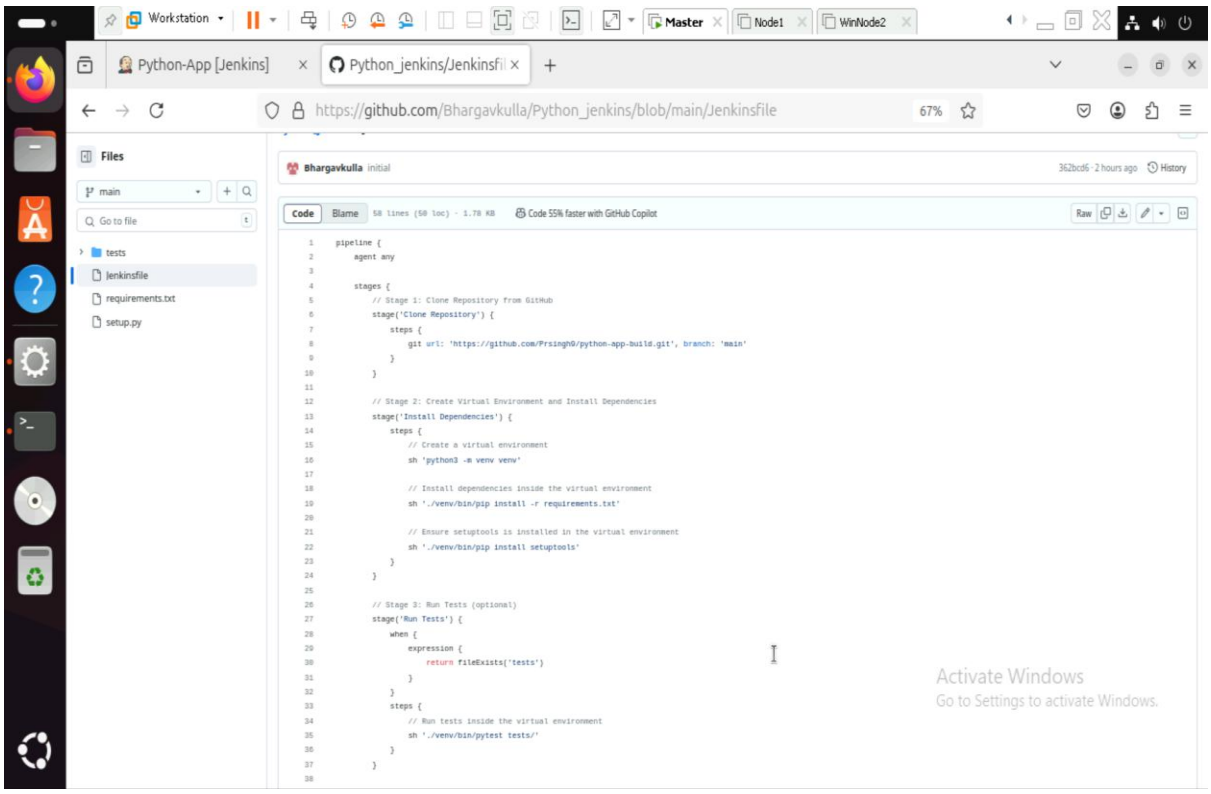

Workstation
Home
Master
Node1
WinNo...
Bhargav #5 Console [Jenk
Jenkins_repo/Jenkinsfile
Git fetch error troublesho
localhost:8080/job/Bhargav/5/console
67%
Dashboard › Bhargav › #5
> git checkout -b main 6826be753b31f75b046156070a07e5bdfecb6f10 # timeout=10
Commit message: "Update Jenkinsfile"
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Build)
[Pipeline] sh
+ echo Building the application...
Building the application...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Test)
[Pipeline] sh
+ echo Running tests...
Running tests...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] sh
+ echo Deploying application...
Deploying application...
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
Activate Windows
Go to Settings to activate Windows.
REST API
Jenkins 2.492.1

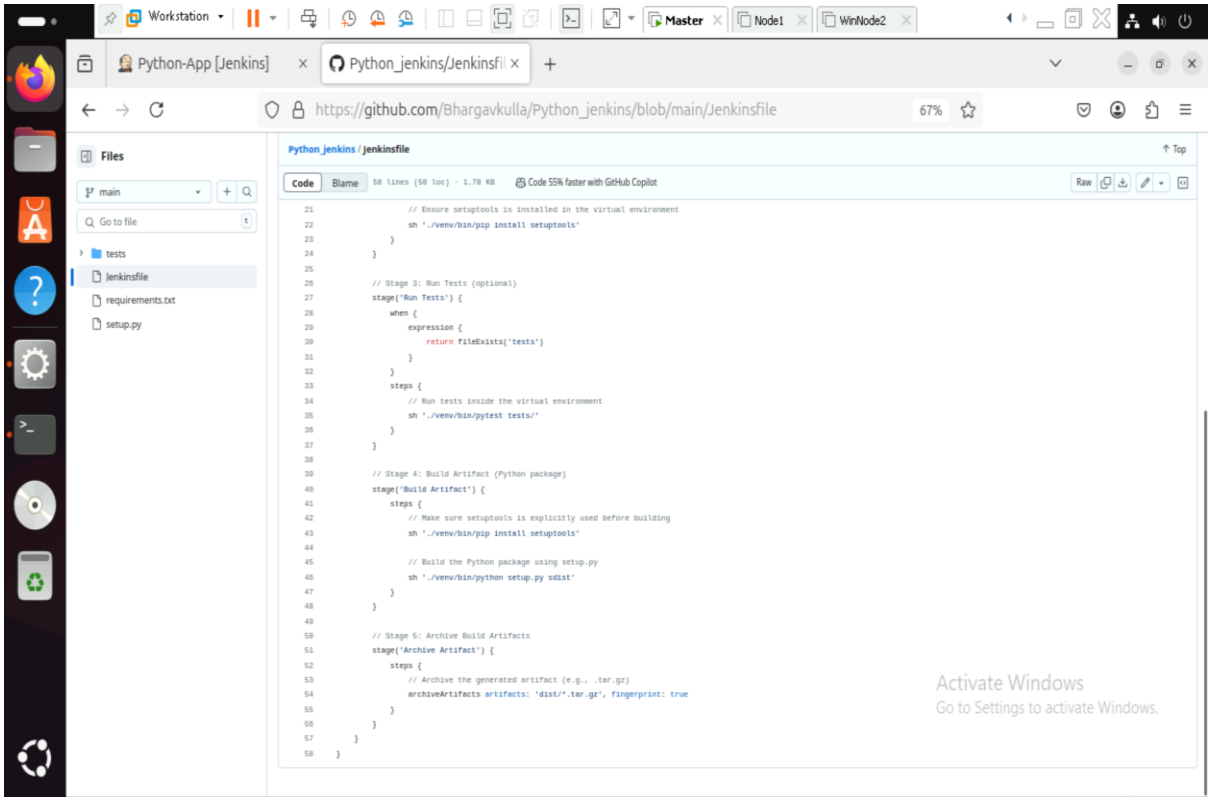

Bhargavkulla / Jenkins_repo
Code
Issues
Pull requests
Actions
Projects
Wiki
Security
Insights
Settings
Jenkins_repo
Public
Pin
Unwatch 1
Fork 0
Star 0
main
1 Branch
0 Tags
Go to file
Code
About
No description, website, or topics provided.
Bhargavkulla Update Jenkinsfile
6826be7 · 2 weeks ago
6 Commits
Jenkinsfile
Update Jenkinsfile
2 weeks ago
README.md
Initial commit
2 weeks ago
README
Jenkins_repo
Readme
Activity
0 stars
1 watching
0 forks
Releases
No releases published
Create a new release

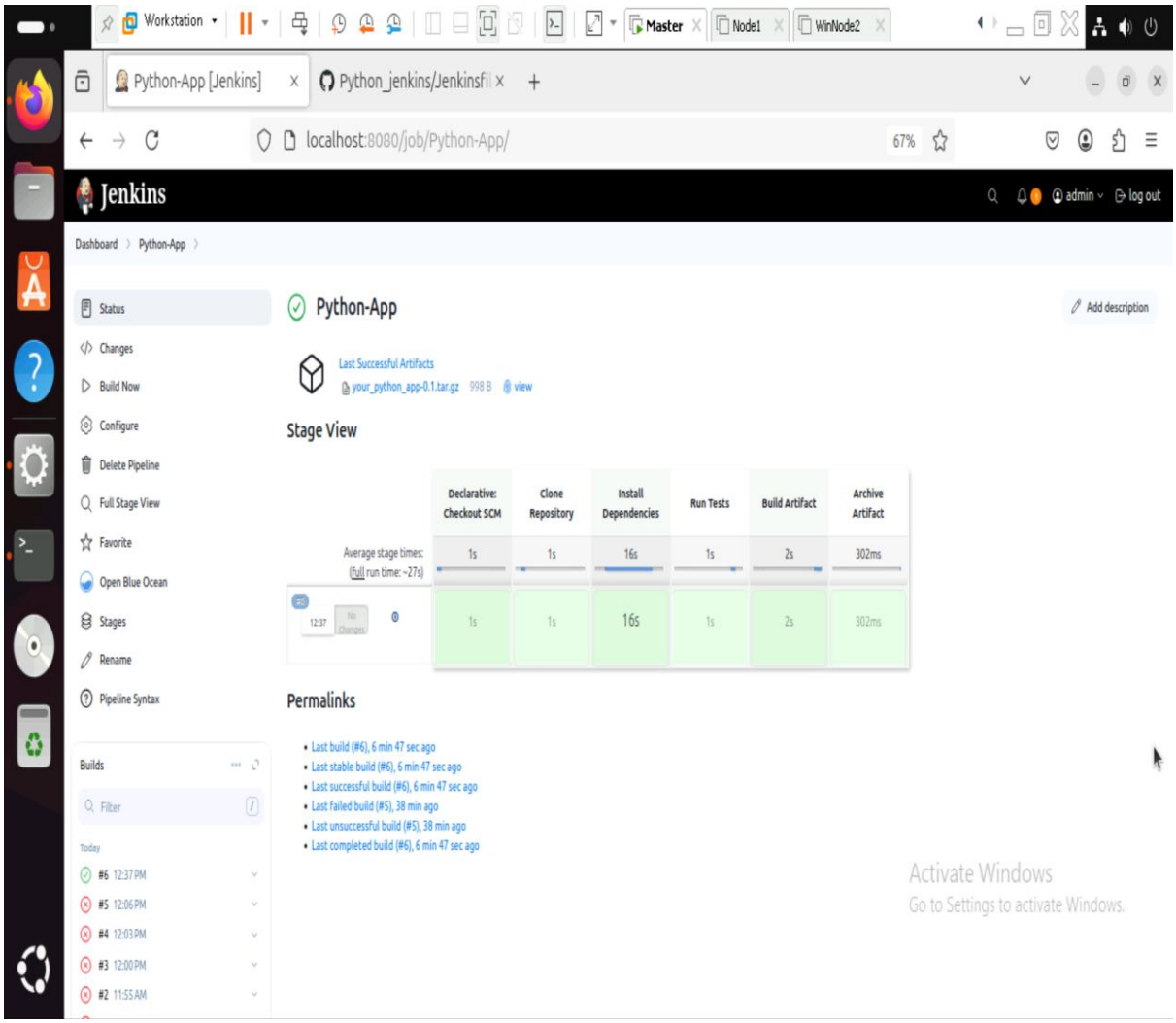

github.com/Bhargavkulla/Jenkins_repo/blob/main/Jenkinsfile
Files
main
Go to file
Jenkinsfile
README.md
Bhargavkulla Update Jenkinsfile
6826be7 · 2 hours ago
History
Code
Blame
33 lines (29 loc) · 912 Bytes
Code 55% faster with GitHub Copilot
Raw
pipeline {
agent any // Runs on any available agent
stages {
stage('Clone Repository') {
steps {
// Make sure the Git URL is correct
git url:'https://github.com/Bhargavkulla/Jenkins_repo.git', branch: 'main'
}
}
stage('Build') {
steps {
// Replace with actual build commands (e.g., mvn, npm, etc.)
sh 'echo "Building the application..."'
}
}
stage('Test') {
steps {
// Replace with actual test commands (e.g., npm test, pytest, etc.)
sh 'echo "Running tests..."'
}
}
stage('Deploy') {
steps {
// Replace with actual deploy commands (e.g., kubectl, docker, etc.)
sh 'echo "Deploying application..."'
}
}
}
}
31°C
Partly sunny
Search
ENG
IN
17:50
19-02-2025

Python Pipeline






Python-App [Jenkins]
Python_jenkins/Jenkinsfil
https://github.com/Bhargavkulla/Python_jenkins/blob/main/Jenkinsfile
Files
main
Go to file
tests
Jenkinsfile
requirements.txt
setup.py
Python_jenkins / Jenkinsfile
Code
Blame
// Ensure setuptools is installed in the virtual environment
sh './venv/bin/pip install setuptools'
// Stage 3: Run Tests (optional)
stage('Run Tests') {
when {
expression {
return fileExists('tests')
}
}
steps {
// Run tests inside the virtual environment
sh './venv/bin/pytest tests/'
}
}
// Stage 4: Build Artifact (Python package)
stage('Build Artifact') {
steps {
// Make sure setuptools is explicitly used before building
sh './venv/bin/pip install setuptools'
// Build the Python package using setup.py
sh './venv/bin/python setup.py sdist'
}
}
// Stage 5: Archive Build Artifacts
stage('Archive Artifact') {
steps {
// Archive the generated artifact (e.g., .tar.gz)
archiveArtifacts artifacts: 'dist/*.tar.gz', fingerprint: true
}
}
}
}
Activate Windows
Go to Settings to activate Windows.


Python-App [Jenkins]
localhost:8080/job/Python-App/
Jenkins
admin
log out
Dashboard
Python-App
Status
Changes
Build Now
Configure
Delete Pipeline
Full Stage View
Favorite
Open Blue Ocean
Stages
Rename
Pipeline Syntax
Python-App
Add description
Last Successful Artifacts
your_python_app-0.1.tar.gz 998 B view
Stage View
Declarative: Checkout SCM
Clone Repository
Install Dependencies
Run Tests
Build Artifact
Archive Artifact
Average stage times:
(full run time: ~27s)
1s
1s
16s
1s
2s
302ms
Permalinks
Last build (#6), 6 min 47 sec ago
Last stable build (#6), 6 min 47 sec ago
Last successful build (#6), 6 min 47 sec ago
Last failed build (#5), 38 min ago
Last unsuccessful build (#5), 38 min ago
Last completed build (#6), 6 min 47 sec ago
Builds
Today
#6 12:37 PM
#5 12:06 PM
#4 12:03 PM
#3 12:00 PM
#2 11:55 AM
Activate Windows
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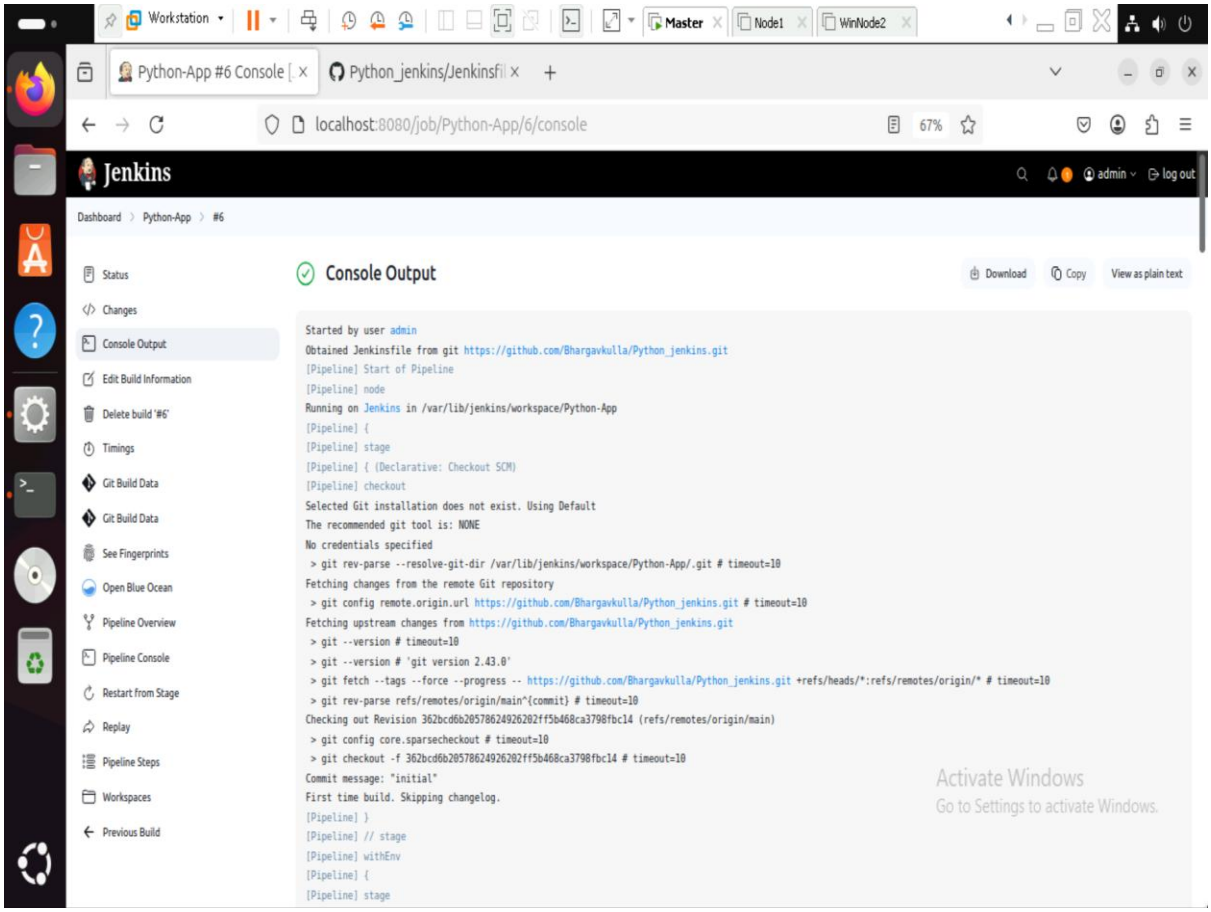
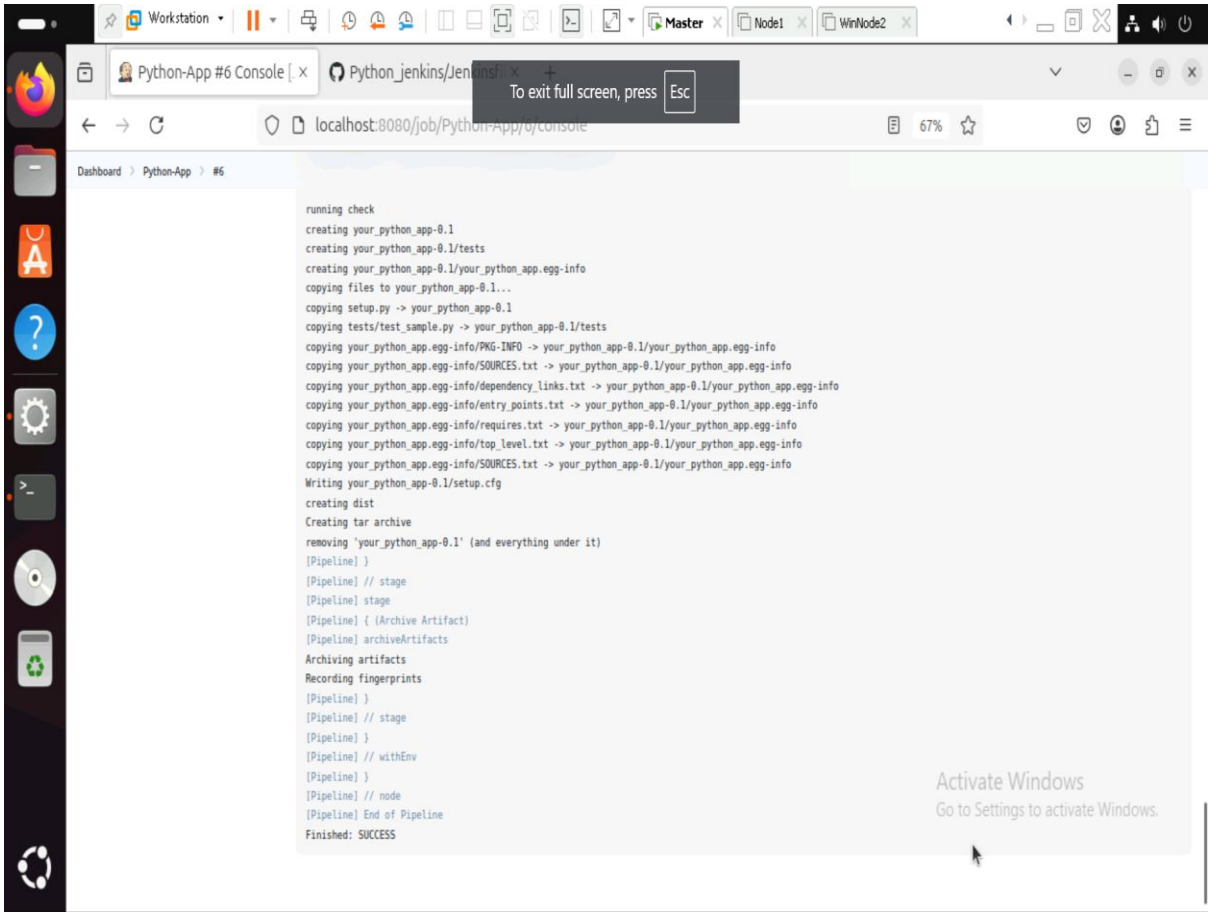

Workstation
Master
Node1
WinNode2
Python-App #6 Console
Python_jenkins/Jenkinsfi
localhost:8080/job/Python-App/6/console
67%
Jenkins
admin
log out
Dashboard
Python-App
#6
Status
Changes
Console Output
Edit Build Information
Delete build '#6'
Timings
Git Build Data
Git Build Data
See Fingerprints
Open Blue Ocean
Pipeline Overview
Pipeline Console
Restart from Stage
Replay
Pipeline Steps
Workspaces
Previous Build
Console Output
Download
Copy
View as plain text
Started by user admin
Obtained Jenkinsfile from git https://github.com/Bhargavkulla/Python_jenkins.git
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/Python-App
[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
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/Python-App/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Bhargavkulla/Python_jenkins.git # timeout=10
Fetching upstream changes from https://github.com/Bhargavkulla/Python_jenkins.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/Bhargavkulla/Python_jenkins.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 362bcd6b20578624926202ff5b468ca3798fbc14 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 362bcd6b20578624926202ff5b468ca3798fbc14 # timeout=10
Commit message: "initial"
First time build. Skipping changelog.
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
Activate Windows
Go to Settings to activate Windows.


Workstation
Master
Node1
WinNode2
Python-App #6 Console
To exit full screen, press Esc
localhost:8080/job/Python-App/6/console
67%
Dashboard
Python-App
#6
running check
creating your_python_app-0.1
creating your_python_app-0.1/tests
creating your_python_app-0.1/your_python_app.egg-info
copying files to your_python_app-0.1...
copying setup.py -> your_python_app-0.1
copying tests/test_sample.py -> your_python_app-0.1/tests
copying your_python_app.egg-info/PKG-INFO -> your_python_app-0.1/your_python_app.egg-info
copying your_python_app.egg-info/SOURCES.txt -> your_python_app-0.1/your_python_app.egg-info
copying your_python_app.egg-info/dependency_links.txt -> your_python_app-0.1/your_python_app.egg-info
copying your_python_app.egg-info/entry_points.txt -> your_python_app-0.1/your_python_app.egg-info
copying your_python_app.egg-info/requires.txt -> your_python_app-0.1/your_python_app.egg-info
copying your_python_app.egg-info/top_level.txt -> your_python_app-0.1/your_python_app.egg-info
copying your_python_app.egg-info/SOURCES.txt -> your_python_app-0.1/your_python_app.egg-info
Writing your_python_app-0.1/setup.cfg
creating dist
Creating tar archive
removing 'your_python_app-0.1' (and everything under it)
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Archive Artifact)
[Pipeline] archiveArtifacts
Archiving artifacts
Recording fingerprints
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
Activate Windows
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