

Week 13 : SOFTWARE DEVELOPMENT TOOLS AND ENVIRONMENTS

# **LAB 01 : Run Jenkinfile using SCM From Github**

Tuchsanai / DevTools

<> Code Issues Pull requests Actions Projects Security Insights Settings

main DevTools / 03\_Jenkins / week13 / 01\_Run\_Jenkinsfile\_From\_Github\_WithSCM /

Tuchsanai d c89be10 · now History

Name	Last commit message	Last commit date
JENKINFILE	d	now
readme.md	ww	1 minute ago
status.py	ww	1 minute ago

readme.md

Tuchsanai / DevTools

<> Code Issues Pull requests Actions Projects Security Insights Settings

dev DevTools / 03\_Jenkins / week13 / 01\_Run\_Jenkinsfile\_From\_Github / status.py

Tuchsanai s

Code Blame 14 lines (12 loc) · 286 Bytes

```
1 import os
2
3 def main():
4     # Displaying status
5     print("System Status:")
6     print("-----")
7     print("Operating System:", os.name)
8     print("\n")
9     print("Environment Variables:", os.environ)
10    print("\n")
11    print("finished.")
12
13 if __name__ == "__main__":
14    main()
```


main DevTools / 03\_Jenkins / week13 / 01\_Run\_Jenkinsfile\_From\_Github / JENKINFILE

Tuchsanai aa 65dd21b · 6 minutes ago History



29 lines (27 loc) · 814 Bytes

Code Blame Raw Download Edit

```
1 pipeline {
2     agent any
3
4     stages {
5         stage('Check Python Installation') {
6             steps {
7                 script {
8                     // Check if Python is installed
9                     def pythonInstalled = sh(script: "which python3", returnStatus: true) == 0
10                    if (!pythonInstalled) {
11                        // Install Python if not installed
12                        sh 'sudo apt update'
13                        sh 'sudo apt install -y python3'
14                    }
15                }
16            }
17        }
18
19        stage('Run Python Script') {
20            steps {
21                script {
22                    // Run Python script with only os library
23                    sh 'python3 status.py'
24                    sh 'ls -l'
25                }
26            }
27        }
28    }
29 }
```


**Jenkins**

Search (⌘+K)

1

Tuchsanai Ploysuwan

Dashboard >

New Item

1

People

Build History

Project Relationship

Check File Fingerprint

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

1 Idle

2 Idle

## 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

**Jenkins**

Search (⌘+K)

1

Tuchsanai Ploysuwan


Dashboard > All >

### Enter an item name

jenkins\_file


» Required field

2




#### 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.



#### Organization Folder

Creates a set of multibranch project subfolders by scanning for repositories.

OK

## Configure

General

Advanced Project Options

Pipeline

### Build Triggers

- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☐ GitHub hook trigger for GITScm polling ?
- ☐ Poll SCM ?
- ☐ Quiet period ?
- ☐ Trigger builds remotely (e.g., from scripts) ?

### Advanced Project Options

Advanced ▾

### Pipeline

Definition

- ✓ Pipeline script
- Pipeline script from SCM

Script ?

1

try sample Pipeline... ▾

4

main

DevTools / 03\_Jenkins / week13  
/ 01\_Run\_Jenkinsfile\_From\_Github\_WithSCM  
/ JENKINFILE

Go to file

Tuchsanai d

c89be10 · 1 minute ago

History

30 lines (27 loc) · 894 Bytes

Code

Blame

Raw

Download

Edit

More

```
1 pipeline {
2   agent any
3
4   stages {
5     stage('Check Python Installation') {
6       steps {
7         script {
8           // Check if Python is installed
9           def pythonInstalled = sh(script: "which python3", returnStatus: true) == 0
10          if (!pythonInstalled) {
11            // Install Python if not installed
12            sh 'sudo apt update'
13            sh 'sudo apt install -y python3'
14          }
15        }
16      }
17    }
18
19    stage('Run Python Script') {
20      steps {
21        script {
22          // Run Python script with only os library
23          sh 'ls -l'
24          sh 'python3 ../03_Jenkins/week13/01_Run_Jenkinsfile_From_Github_WithSCM/status.py'
25        }
26      }
27    }
28  }
29 }
30 }
```

### Configure

General

Advanced Project Options

Pipeline

☐ Throttle builds ?

#### Build Triggers

☐ Build after other projects are built ?

☐ Build periodically ?

☐ GitHub hook trigger for GITScm polling ?

☐ Poll SCM ?

☐ Quiet period ?

☐ Trigger builds remotely (e.g., from scripts) ?

#### Advanced Project Options

Advanced

#### Pipeline

Definition

Pipeline script from SCM

SCM ?

None

Git

Script Path ?

./03\_Jenkins/week13/01\_Run\_Jenkinsfile\_From\_Github\_WithSCM/JENKINFILE

☒ Lightweight checkout ?

[Pipeline Syntax](#)

Save

Apply

## Repositories ?

### Repository URL ?

https://github.com/Tuchsanai/DevTools.git

### Credentials ?

tuchsanai/\*\*\*\*\* (github account)

+ Add ▾

Advanced ▾

Add Repository

## Branches to build ?

### Branch Specifier (blank for 'any') ?

\*/dev

Add Branch

## Repository browser ?

(Auto)

## Additional Behaviours

Add ▾

### Script Path ?

./03\_Jenkins/week13/01\_Run\_Jenkinsfile\_From\_Github\_WithSCM/JENKINFILE

Save

Apply

Jenkins

Dashboard

>

jenkins\_file

>

Status

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Rename

Pipeline Syntax

Build History

trend

Filter...

#3

27 s.w. 2024-03-44

Atom feed for all

Atom feed for failures

jenkins\_file

Stage View

Average stage times:  
(Average full run time: ~3s)

	Declarative: Checkout SCM	Check Python Installation	Run Python Script
	1s	394ms	982ms
	1s	394ms	982ms

Permalinks

- Last build (#3), 2 min 15 sec ago
- Last stable build (#3), 2 min 15 sec ago
- Last successful build (#3), 2 min 15 sec ago
- Last completed build (#3), 2 min 15 sec ago

Dashboard > jenkins\_file > #3

Status

Changes

Console Output

View as plain text

Edit Build Information

Delete build '#3'

Git Build Data

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

## Console Output

Started by user Tuchsana1 Playsuwan

Obtained ./#3\_Jenkins/week13/01\_Run\_Jenkinsfile\_From\_Github/JENKINFILE from git <https://github.com/Tuchsana1/DevTools.git>

[Pipeline] Start of Pipeline

[Pipeline] node

Running on Jenkins in /var/lib/jenkins/workspace/jenkins\_file

[Pipeline] {

[Pipeline] stage

[Pipeline] { (Declarative: Checkout SCM)

[Pipeline] checkout

The recommended git tool is: git

using credential id\_github

> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/jenkins\_file/.git # timeout=10

Fetching changes from the remote git repository

> git config remote.origin.url <https://github.com/Tuchsana1/DevTools.git> # timeout=10

Fetching upstream changes from <https://github.com/Tuchsana1/DevTools.git>

> git --version # timeout=10

> git --version # 'git version 2.34.1'

using GIT\_ASKPASS to set credentials github account

> git fetch --tags --force --progress -- <https://github.com/Tuchsana1/DevTools.git> +refs/heads/\*:refs/remotes/origin/\* # timeout=10

> git rev-parse refs/remotes/origin/dev^{commit} # timeout=10

Checking out Revision adc46fceb6618509afeccd13d26c1406fd5dbf3 (refs/remotes/origin/dev)

> git config core.sparsecheckout # timeout=10

> git checkout -f adc46fceb6618509afeccd13d26c1406fd5dbf3 # timeout=10

Commit message: "delete files"

> git rev-list --no-walk 32de38e68ab198bf44721d9a241c74dc5f92a427 # timeout=10

[Pipeline] }

[Pipeline] // stage

[Pipeline] withEnv

[Pipeline] {

[Pipeline] stage

[Pipeline] { (Check Python Installation)

[Pipeline] script

[Pipeline] sh

+ which python3

/usr/bin/python3

[Pipeline] }

[Pipeline] // script

[Pipeline] }

[Pipeline] // stage

[Pipeline] { (Run Python Script)

[Pipeline] script

[Pipeline] sh

+ pwd

/var/lib/jenkins/workspace/jenkins\_file

[Pipeline] sh

+ python3 ./#3\_Jenkins/week13/01\_Run\_Jenkinsfile\_From\_Github/status.py

System Status:

-----

Operating System: posix

-----


-----




Environment Variables: environ({'JENKINS\_HOME': '/var/lib/jenkins', 'USER': 'jenkins', 'CI': 'true', 'RUN\_CHANGES\_DISPLAY\_URL': 'http://54.251.188.144:8080/job/jenkins\_file/3/display/redirect?page=changes', 'NODE\_LABELS': 'built-in', 'HUDSON\_URL': 'http://54.251.188.144:8080/', 'GIT\_COMMIT': 'adc46fceb6618509afeccd13d26c1406fd5dbf3', 'HOME': '/var/lib/jenkins', 'BUILD\_URL': 'http://54.251.188.144:8080/job/jenkins\_file/3/', 'HUDSON\_COOKIE': '49a06cf3-5d30-418d-b9f6-b4626631d20a', 'JENKINS\_SERVER\_COOKIE': 'durable-d51f37cf430a25df33cb3c9f7893bc2c452d20ea1b32523e4a26825dc82651f', 'NOTIFY\_SOCKET': '/run/systemd/notify', 'SYSTEMD\_EXEC\_PID': '8226', 'WORKSPACE': '/var/lib/jenkins/workspace/jenkins\_file', 'LOGNAME': 'jenkins', 'NODE\_NAME': 'built-in', 'JOURNAL\_STREAM': '8:46337', 'RUN\_ARTIFACTS\_DISPLAY\_URL': 'http://54.251.188.144:8080/job/jenkins\_file/3/display/redirect?page=artifacts', 'STAGE\_NAME': 'Run Python Script', 'EXECUTOR\_NUMBER': '0', 'GIT\_BRANCH': 'origin/dev', 'RUN\_TESTS\_DISPLAY\_URL': 'http://54.251.188.144:8080/job/jenkins\_file/3/display/redirect?page=tests', 'BUILD\_DISPLAY\_NAME': '93', 'HUDSON\_HOME': '/var/lib/jenkins', 'JOB\_BASE\_NAME': 'jenkins\_file', 'PATH': '/usr/local/sbin:/usr/local/bin:/usr/sbin:/bin:/sbin:/usr/sbin:/usr/bin:/usr/sbin', 'INVOCATION\_ID': '3d61b667cf72448498532ebcf5a349ed', 'BUILD\_ID': '3', 'BUILD\_TAG': 'jenkins-jenkins\_file-3', 'LANG': 'C.UTF-8', 'JENKINS\_URL': 'http://54.251.188.144:8080/', 'JOB\_URL': 'http://54.251.188.144:8080/job/jenkins\_file/', 'GIT\_URL': 'https://github.com/Tuchsana1/DevTools.git', 'BUILD\_NUMBER': '3', 'JENKINS\_NODE\_COOKIE': '9b689257-aae4-4dc4-e446-6773be581705', 'SHELL': '/bin/bash', 'RUN\_DISPLAY\_URL': 'http://54.251.188.144:8080/job/jenkins\_file/3/display/redirect', 'HUDSON\_SERVER\_COOKIE': '25d1a75683dc7e3e', 'JOB\_DISPLAY\_URL': 'http://54.251.188.144:8080/job/jenkins\_file/display/redirect', 'JOB\_NAME': 'jenkins\_file', 'PWD': '/var/lib/jenkins/workspace/jenkins\_file', 'GIT\_PREVIOUS\_COMMIT': '32de38e68ab198bf44721d9a241c74dc5f92a427', 'WORKSPACE\_TMP': '/var/lib/jenkins/workspace/jenkins\_filetmp'})

finished.





# **LAB 02 : Run Jenkinfile without SCM From Github**


 **Jenkins**


Search (⌘+K)    Tuchsana Ploysuwan


Dashboard >


 New Item


 People


 Build History

 Project Relationship


 Check File Fingerprint

 Manage Jenkins

 My Views

Build Queue 

No builds in the queue.

Build Executor Status 


1 Idle

2 Idle


## 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 


Enter an item name

No\_SCM


» Required field

 **Freestyle project**


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

 **Pipeline**


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

 **Multi-configuration project**


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

 **Folder**

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.

 **Organization Folder**

Creates a set of multibranch project subfolders by scanning for repositories.

OK

## Configure

General

Advanced Project Options

Pipeline

- ☐ Throttle builds ?
- Build Triggers**
- ☐ Build after other projects are built ?
- ☐ Build periodically ?
- ☐ GitHub hook trigger for GITScm polling ?
- ☐ Poll SCM ?
- ☐ Quiet period ?
- ☐ Trigger builds remotely (e.g., from scripts) ?

## Advanced Project Options

Advanced ▾

## Pipeline

Definition

Pipeline script ▾

```
1 pipeline {
2   agent any
3
4   stages {
5
6     stage('copy repository') {
7       steps {
8         // Copy the repository
9       }
10
11     }
12
13     stage('Check Python Installation') {
14       steps {
15         script {
16
```

☒ Use Groovy Sandbox ?[Pipeline Syntax](#)

Save

Apply

3

status.py

www

readme.md

## Jenkins file with GitHub

## - detail in slides

```
pipeline {
  agent any

  stages {
    stage('copy repository') {
      steps {
        // Copy the repository
        checkout scmGit(branches: [[name: '/dev']], extensions: [], userRemoteConfigs: [[credentialsId: 'g
      ]
    }

    stage('Check Python Installation') {
      steps {
        script {
          // Check if Python is installed
          def pythonInstalled = sh(script: "which python3", returnStatus: true) == 0
          if (!pythonInstalled) {
            // Install Python if not installed
            sh 'sudo apt update'
            sh 'sudo apt install -y python3'
          }
        }
      }
    }

    stage('Run Python Script') {
      steps {
        script {
          // Run Python script with only as library
          sh 'pwd'
          sh 'python3 ../03_Jenkins/week13/02_Run_Jenkinsfile_From_Github_withoutSCM/status.py'

          sh 'ls -l'
        }
      }
    }
  }
}
```

Dashboard > No\_SCM > Pipeline Syntax

↑ Back

Snippet Generator

Declarative Directive Generator

Declarative Online Documentation

Steps Reference

Global Variables Reference

Online Documentation

Examples Reference

IntelliJ IDEA GDSL

Overview

This **Snippet Generator** will help you learn the Pipeline Script code which can be used to define various steps. Pick a step you are interested in from the list, configure it, click **Generate Pipeline Script**, and you will see a Pipeline Script statement that would call the step with that configuration. You may copy and paste the whole statement into your script, or pick up just the options you care about. (Most parameters are optional and can be omitted in your script, leaving them at default values.)

Steps

Sample Step

archiveArtifacts: Archive the artifacts

Files to archive

Advanced

Generate Pipeline Script

Global Variables

There are many features of the Pipeline that are not steps. These are often exposed via global variables, which are not supported by the snippet generator. See the [Global Variables Reference](#) for details.

↑ Back

Snippet Generator

Declarative Directive Generator

Declarative Online Documentation

Steps Reference

Global Variables Reference

Online Documentation

Examples Reference

IntelliJ IDEA GDSL

Overview

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Steps

Sample Step

✓ archiveArtifacts: Archive the artifacts

bat: Windows Batch Script

build: Build a job

catchError: Catch error and set build result to failure

checkout: Check out from version control

cleanWs: Delete workspace when build is done

configFileProvider: Provide Configuration files

deleteDir: Recursively delete the current directory from the workspace

dir: Change current directory

echo: Print Message

emailxext: Extended Email

emailxextrecipients: Extended Email Recipients

error: Error signal

fileExists: Verify if file exists in workspace

findBuildScans: Find published build scans

fingerprint: Record fingerprints of files to track usage

git: Git

input: Wait for interactive input

isUnix: Checks if running on a Unix-like node

junit: Archive JUnit-formatted test results

library: Load a library on the fly

checkout ?

SCM

Git

Repositories ?

Repository URL ?

https://github.com/Tuchsanai/DevTools.git

Credentials ?

tuchsanai/\*\*\*\*\*

+ Add -

Advanced -

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

\*/dev

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add -

☒ Include in polling? ?

☒ Include in changelog? ?

Generate Pipeline Script

Push button

checkout ?

SCM

Git

Repositories ?

Repository URL ?

https://github.com/Tuchsanai/DevTools.git

Credentials ?

tuchsanai/\*\*\*\*\*

+ Add -

Advanced -

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

\*/dev

Add Branch

Repository browser ?

(Auto)

Additional Behaviours

Add -

☒ Include in polling? ?

☒ Include in changelog? ?

Generate Pipeline Script

```
checkout scmGit(branches: [[name: '**/dev']], extensions: [], userRemoteConfigs: [[credentialsId: 'github', url: 'https://github.com/Tuchsanai/DevTools.git']])
```

## Configure

### General

### Advanced Project Options

### Pipeline

☐ Preserve stashes from completed builds ?

☐ This project is parameterized ?

☐ Throttle builds ?

### Build Triggers

☐ Build after other projects are built ?

☐ Build periodically ?

☐ GitHub hook trigger for GITScm polling ?

☐ Poll SCM ?

☐ Quiet period ?

☐ Trigger builds remotely (e.g., from scripts) ?

### Advanced Project Options

Advanced ▾

### Pipeline

#### Definition

Pipeline script ▾

#### Script ?

```
1 pipeline {
2   agent any
3
4   stages {
5
6     stage('copy repository') {
7       steps {
8
9         // Copy the repository
10        checkout scmGit(branches: [[name: '*/*dev']], extensions: [], userRemoteConfigs: [])
11      }
12    }
13  }
14 }
15
```

Paste

☒ Use Groovy Sandbox ?

Pipeline Syntax

Save

Apply

### Console Output

```
Started by user tp
(Pipeline) Start of Pipeline
(Pipeline) node
Running on Jenkins in /var/lib/jenkins/workspace/No_SCM
(Pipeline) {
(Pipeline) stage
(Pipeline) { (copy repository)
(Pipeline) checkout
The recommended git tool is: NONE
using credential github
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/No_SCM/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/Tuchansai/DevTools.git # timeout=10
Fetching upstream changes from https://github.com/Tuchansai/DevTools.git
> git --version # timeout=10
> git --version # 'git version 2.34.1'
using GIT_ASKPASS to set credentials
> git fetch --tags --force --progress -- https://github.com/Tuchansai/DevTools.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/dev^{commit} # timeout=10
Checking out Revision 773695d843e3e2f982ebecde9a88461af605 (refs/remotes/origin/dev)
> git config core.sparsecheckout # timeout=10
Commit message: "delete files"
First time build. Skipping changelog.
(Pipeline) }
(Pipeline) // stage
(Pipeline) stage
(Pipeline) { (Check Python Installation)
(Pipeline) script
(Pipeline) {
(Pipeline) sh
+ which python3
/var/lib/python3
(Pipeline) }
(Pipeline) // script
(Pipeline) }
(Pipeline) // stage
(Pipeline) stage
(Pipeline) { (Run Python Script)
(Pipeline) script
(Pipeline) {
(Pipeline) sh
+ pwd
/var/lib/jenkins/workspace/No_SCM
(Pipeline) sh
+ python3 ./03_Jenkins/week13/02_Run_Jenkinsfile_From_Github_withoutSCM/status.py
System Status:
Operating System: posix

Environment Variables: environ({'JENKINS_HOME': '/var/lib/jenkins', 'USER': 'jenkins', 'CI': 'true', 'RUN_CHANGES_DISPLAY_URL': 'http://175.41.181.239:8080/', 'MODE_LABELS': 'built-in', 'HUDSON_URL': 'http://175.41.181.239:8080/', 'HOME': '/var/lib/jenkins', 'BUILD_URL': 'http://175.41.181.239:8080/job/No_SCM/2/', 'HUDSON_COOKIE': 'a7658642-e8f8-4763-9815-314baf6139f', 'JENKINS_SERVER_COOKIE': 'durable-586d74ee4c761eccf6b9c3ed728f70e911ca0476f3899a9c02a53e39619', 'NOTIFY_SOCKET': '/run/systemd/notify', 'SYSTEMD_EXEC_PID': '7560', 'WORKSPACE': '/var/lib/jenkins/workspace/No_SCM', 'LOGNAME': 'jenkins', 'NODE_NAME': 'built-in', 'JOURNAL_STREAM': '8:44869', 'RUN_ARTIFACTS_DISPLAY_URL': 'http://175.41.181.239:8080/job/No_SCM/2/display/redirect?page=artifacts', 'STAGE_NAME': 'Run Python Script', 'EXECUTOR_NUMBER': '1', 'RUN_TESTS_DISPLAY_URL': 'http://175.41.181.239:8080/job/No_SCM/2/display/redirect?page=tests', 'BUILD_DISPLAY_NAME': '92', 'HUDSON_HOME': '/var/lib/jenkins', 'JOB_BASE_NAME': 'No_SCM', 'PATH': '/usr/local/sbin:/usr/local/bin:/usr/sbin:/bin:/sbin:/snap/bin', 'INVOCATION_ID': 'aca2f35982ce43aaa80d8f676ec0bae', 'BUILD_ID': '2', 'BUILD_TAG': 'jenkins-No_SCM-2', 'LANG': 'C.UTF-8', 'JENKINS_URL': 'http://175.41.181.239:8080/', 'JOB_URL': 'http://175.41.181.239:8080/job/No_SCM/', 'BUILD_NUMBER': '2', 'JENKINS_NODE_COOKIE': '36180eds-4913-4788-990d-25497ee17a95', 'SHELL': '/bin/bash', 'RUN_DISPLAY_URL': 'http://175.41.181.239:8080/job/No_SCM/2/display/redirect', 'HUDSON_SERVER_COOKIE': '4d0b2b048492119', 'JOB_DISPLAY_URL': 'http://175.41.181.239:8080/job/No_SCM/display/redirect', 'JOB_NAME': 'No_SCM', 'PWD': '/var/lib/jenkins/workspace/No_SCM', 'WORKSPACE_TMP': '/var/lib/jenkins/workspace/No_SCM/tmp'})

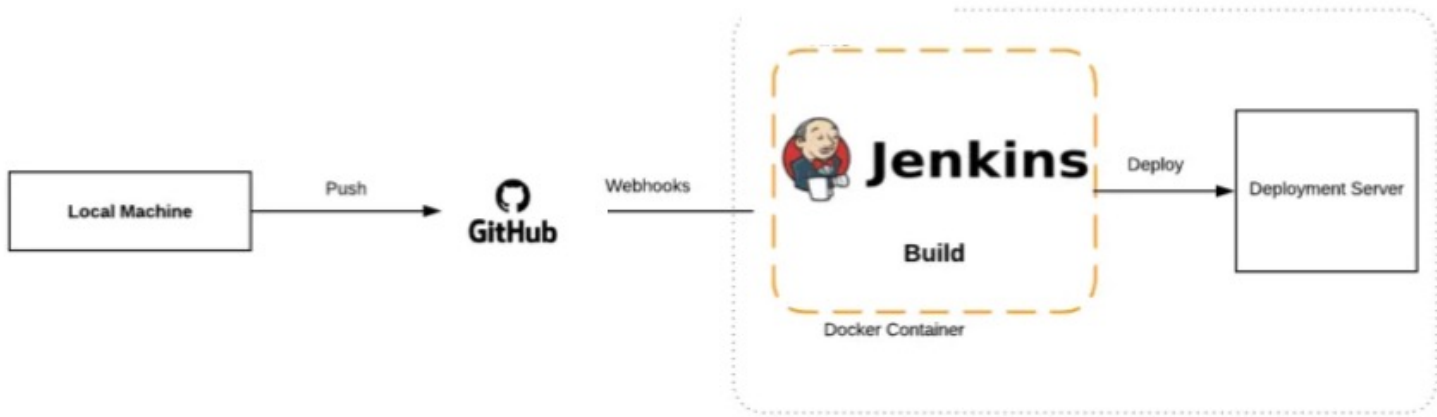
finished.
(Pipeline) sh
+ ls -l
total 28
drwxr-xr-x 6 jenkins jenkins 4096 Feb 28 08:53 00_GIT
drwxr-xr-x 3 jenkins jenkins 4096 Feb 28 08:53 01_Google Cloud
drwxr-xr-x 6 jenkins jenkins 4096 Feb 28 08:53 02_Docker
drwxr-xr-x 4 jenkins jenkins 4096 Feb 28 08:53 03_Jenkins
drwxr-xr-x 4 jenkins jenkins 4096 Feb 28 08:53 04_kubernetes
drwxr-xr-x 2 jenkins jenkins 4096 Feb 28 08:53 Mini_Project
-rw-r--r-- 1 jenkins jenkins 1695 Feb 28 08:53 README.md
```











Delivery (CD).

Tuchsanai / DevTools

<> Code

Issues

Pull requests

Actions

Projects

Security

Insights

Settings

Tuchsanai

Public

Unpin

Unwatch 1

Fork 4

Star 20

main

Go to file

+<> Code

Tuchsanai

36a75ee · 6 hours ago

629 Commits

00\_GIT

ss

2 weeks ago

01\_Google Cloud

ss

2 weeks ago

02\_Docker

n

5 days ago

03\_Jenkins

q

6 hours ago

04\_kubernetes

y

5 days ago

Mini\_Project

nn

yesterday

.gitignore

Update .gitignore

6 months ago

README.md

d

3 months ago

Readme

Activity

20 stars

1 watching

4 forks

Releases

No releases published

Create a new release

Packages

No packages published

Publish your first package

Languages

Tuchsanai / DevTools

<> Code

Issues

Pull requests

Actions

Projects

Security

Insights

Settings

General

General

Access

Collaborators

Moderation options

Repository name

DevTools

Rename

Code and automation

Branches

Tags

Rules

Actions

Webhooks

Environments

Codespaces

Pages

Template repository

Template repositories let users generate new repositories with the same directory structure and files.

Learn more about template repositories.

Require contributors to sign off on web-based commits

Enabling this setting will require contributors to sign off on commits made through GitHub's web interface. Signing off is a way for contributors to affirm that their commit complies with the repository's terms, commonly the [Developer Certificate of Origin \(DCO\)](#). [Learn more about signing off on commits.](#)

Default branch

The default branch is considered the "base" branch in your repository, against which all pull requests and code commits are automatically made, unless you specify a different branch.

main

Security

Code security and analysis

Deploy keys

Social preview

Upload an image to customize your repository's social media preview

Tuchsanai / DevTools

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🔧

📧

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**⚙ Settings**

⚙ General

Webhooks

Add webhook

Access

👤 Collaborators

🗨 Moderation options

Code and automation

🔑 Branches

🏷 Tags

📄 Rules

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**🔗 Webhooks**

📁 Environments

💻 Codespaces

📄 Pages

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







