

Jenkins

Create a Jenkins shared library repo

The first screenshot shows the GitHub repository overview for 'jenkins-shared-library' by user 'hruthingali'. It displays the repository name, a search bar, and navigation tabs for Code, Issues, Pull requests, Actions, Projects, Wiki, Security, Insights, and Settings. The repository is public and has 1 branch and 0 tags. A table lists recent commits: 'Update commonBuild.groovy' (52115ed, 2 days ago, 20 commits) and 'Create Jenkinsfile' (2 days ago). The README section prompts the user to 'Add a README'. The right sidebar shows repository statistics: 0 stars, 1 watching, 0 forks, and 0 releases. The language statistics show 100.0% Groovy.

The second screenshot shows the 'vars/commonBuild.groovy' file. The file contains a Groovy script with stages for 'Checkout', 'Unit Tests', and 'Deploy'. The 'Checkout' stage uses 'checkout scm'. The 'Unit Tests' stage echoes 'Running unit tests...' and runs 'gradle test'. The 'Deploy' stage echoes 'Deploying to environment...' and includes a comment to add deployment logic.

```
1 def call() {
2     node {
3         stage('Checkout') {
4             checkout scm
5         }
6
7         stage('Unit Tests') {
8             echo 'Running unit tests...'
9             sh 'gradle test'
10        }
11    }
12
13    stage('Deploy') {
14        echo 'Deploying to environment...'
15        // Add actual deployment logic here
16    }
17 }
18 }
```

The third screenshot shows the 'Jenkinsfile' file. It contains a single line of Groovy code that loads the shared library and calls the 'commonBuild' function.1 @Library('jenkins-shared-library') _
2 commonBuild()

Do this to add the shared library vars in jenkins

Dashboard > Manage Jenkins > System >

Global Trusted Pipeline Libraries

Sharable libraries available to any Pipeline jobs running on this system. These libraries will be trusted, meaning they run without "sandbox" restrictions and may use @Grab.

Library

Name ?

jenkins-shared-library

Default version ?

main

Currently maps to revision: 52115ed6a6b0d4b637f29f3c2835d169a3c0c6

☐ Load implicitly ?

☒ Allow default version to be overridden ?

☒ Include @Library changes in job recent changes ?

☐ Cache fetched versions on controller for quick retrieval ?

Retrieval method

Modern SCM

Source Code Management

Git

Project Repository ?

https://github.com/hruthingali/jenkins-shared-library.git

Credentials ?

-- none --

+ Add

Activate Windows

Go to Settings to activate Windows.

create a pipeline job

Dashboard > question_3 > Configuration

Configure

General

Triggers

Pipeline

Advanced

Definition

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

Pipeline script from SCM

SCM ?

Git

Repositories ?

Repository URL ?

https://github.com/hruthingali/jenkins-shared-library.git

Credentials ?

-- none --

+ Add

Advanced

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?

*/main

Add Branch

Repository browser ?

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this is the output

Status

Changes

Console Output

Edit Build Information

Delete build 'rs'

Timings

Git Build Data

Open Blue Ocean

Pipeline Overview

Pipeline Console

Replay

Pipeline Steps

Workspaces

Previous Build

#5 (Apr 11, 2025, 2:22:27 PM)

Started by user admin

Started 58 sec ago
Took 9.5 sec

This run spent:

- 0.16 sec waiting;
- 9.5 sec build duration;
- 9.6 sec total from scheduled to completion.

Revision: 6ae1744452066f55b5204b3b3c4254282969119b

Repository: https://github.com/hruthingali/jenkins-shared-library.git

- main

Changes

1. Update commonBuild.groovy (details / githubweb)

Add description

Keep this build forever

Console Output

Download Copy View as plain text

```
Started by user admin
Obtained Jenkinsfile from git https://github.com/hruthingali/jenkins-shared-library.git
Loading library jenkins-shared-library@main
Attempting to resolve main from remote references...
> /usr/bin/git --version # timeout=10
> git --version # 'git version 2.43.0'
> /usr/bin/git ls-remote -h -- https://github.com/hruthingali/jenkins-shared-library.git # timeout=10
Found match: refs/heads/main revision 6ae1744452066f55b5204b3b3c4254282969119b
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> /usr/bin/git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/question_3@libs/fceb8451fa972eec20b23d970c1fd8b1e4bac5d48a1ca1826bb28a1f5cc20393/.git # timeout=10
Fetching changes from the remote Git repository
> /usr/bin/git config remote.origin.url https://github.com/hruthingali/jenkins-shared-library.git # timeout=10
Fetching without tags
Fetching upstream changes from https://github.com/hruthingali/jenkins-shared-library.git
> /usr/bin/git --version # timeout=10
> git --version # 'git version 2.43.0'
> /usr/bin/git fetch --no-tags --force --progress -- https://github.com/hruthingali/jenkins-shared-library.git +refs/heads/*:refs/remotes/origin/* # timeout=10
Checking out Revision 6ae1744452066f55b5204b3b3c4254282969119b (main)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f 6ae1744452066f55b5204b3b3c4254282969119b # timeout=10
Commit message: "Update commonBuild.groovy"
> /usr/bin/git rev-list --no-walk 1a25d72d8e33d4beb929ad6e718ffca81fda8340 # timeout=10
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/question_3
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Checkout)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> /usr/bin/git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/question_3/.git # timeout=10
Fetching changes from the remote Git repository
> /usr/bin/git config remote.origin.url https://github.com/hruthingali/jenkins-shared-library.git # timeout=10
Fetching upstream changes from https://github.com/hruthingali/jenkins-shared-library.git
> /usr/bin/git --version # timeout=10
> git --version # 'git version 2.43.0'
> /usr/bin/git fetch --tags --force --progress -- https://github.com/hruthingali/jenkins-shared-library.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 6ae1744452066f55b5204b3b3c4254282969119b (refs/remotes/origin/main)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f 6ae1744452066f55b5204b3b3c4254282969119b # timeout=10
Commit message: "Update commonBuild.groovy"
[Pipeline] }
```

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```
Running on Jenkins in /var/lib/jenkins/workspace/question_3
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Checkout)
[Pipeline] checkout
Selected Git installation does not exist. Using Default
The recommended git tool is: NONE
No credentials specified
> /usr/bin/git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/question_3/.git # timeout=10
Fetching changes from the remote Git repository
> /usr/bin/git config remote.origin.url https://github.com/hruthingali/jenkins-shared-library.git # timeout=10
Fetching upstream changes from https://github.com/hruthingali/jenkins-shared-library.git
> /usr/bin/git --version # timeout=10
> git --version # 'git version 2.43.0'
> /usr/bin/git fetch --tags --force --progress -- https://github.com/hruthingali/jenkins-shared-library.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> /usr/bin/git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 6ae1744452066f55b5204b3b3c4254282969119b (refs/remotes/origin/main)
> /usr/bin/git config core.sparsecheckout # timeout=10
> /usr/bin/git checkout -f 6ae1744452066f55b5204b3b3c4254282969119b # timeout=10
Commit message: "Update commonBuild.groovy"
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Unit Tests)
[Pipeline] echo
Running unit tests...
[Pipeline] }
[Pipeline] // stage
[Pipeline] stage
[Pipeline] { (Deploy)
[Pipeline] echo
Deploying to environment...
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] End of Pipeline
Finished: SUCCESS
```

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Dashboard > question_3 >

Status

question_3

Add description

Changes

Build Now

Configure

Delete Pipeline

Full Stage View

Favorite

Open Blue Ocean

Stages

Rename

Pipeline Syntax

Stage View

		Checkout	Unit Tests	Deploy
Average stage times: (full run time: ~9s)		1s	6s	223ms
#5	14:22 1 completed	1s	208ms	223ms
#4	14:07 No Changes	2s	23s failed	
#3	14:04 1 completed	1s	485ms failed	
#2	14:01 1 completed	1s	615ms	

Activate Windows
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