

JENKINS:

Getting Started

Getting Started

✓ Folders	✓ OWASP Markup Formatter	✓ Build Timeout	✓ Credentials Binding
✓ Timestampers	✓ Workspace Cleanup	✓ Ant	⌚ Gradle
⌚ Pipeline	⌚ GitHub Branch Source	⌚ Pipeline: GitHub Groovy Libraries	⌚ Pipeline Graph View
⌚ Git	⌚ SSH Build Agents	⌚ Matrix Authorization Strategy	○ PAM Authentication
⌚ LDAP	⌚ Email Extension	⌚ Mailer	⌚ Dark Theme

Workspace Cleanup

Ant

OkHttp

Durable Task

Pipeline: Nodes and Processes

Pipeline: SCM Step

- required dependency

Jenkins 2.492.3

Getting Started

Create First Admin User

Username

siri

Password

....

Confirm password

....

Full name

sirisha

Jenkins 2.492.3

Skip and continue as admin

Save and Continue

Creating a freestyle project:

- + New Item
- Build History
- Manage Jenkins
- My Views

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

New Item

Enter an item name

freestyle

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

Dashboard > freestyle > Configuration

Configure

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

- ☐ 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 shell

Command

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

echo "hello"

Advanced

Status

Changes

Workspace

Build Now

Configure

Delete Project

Rename

freestyle

Permalinks

Add description

Builds

No builds

Today

#1 10:55 AM

Status

Changes

Console Output

Edit Build Information

Delete build '#1'

Timings

Console Output

Started by user sirisha

Running as SYSTEM

Building in workspace /var/lib/jenkins/workspace/freestyle

[freestyle] \$ /bin/sh -xe /tmp/jenkins10373523809413104262.sh

+ echo hello

hello

Finished: SUCCESS

+ New Item

Build History

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

0/2

All

S	W	Name ↓	Last Success	Last Failure	Last Duration
✓	☀	freestyle	48 sec #1	N/A	0.12 sec

Icon: S M L

Installing plugins:

The screenshot shows the Jenkins management interface. On the left, the 'Manage Jenkins' tab is selected. Below it, the 'Build Queue' and 'Build Executor Status' sections are visible. The main content area shows the 'System Configuration' section with tabs for System, Tools, Plugins, Nodes, Clouds, and Appearance. The 'Plugins' tab is selected, and the 'Available plugins' sub-tab is active. A search bar is present at the top of the plugins list. Below the search bar, a table lists available plugins. The 'Pipeline: Stage View 2.37' plugin is highlighted with a blue arrow pointing to its 'Install' button.

Install	Name	Released
<input type="checkbox"/>	JavaMail API 1.6.2-11 Library plugins (for use by other plugins) This plugin provides the JavaMail API for other plugins.	2 mo 1 day ago
<input type="checkbox"/>	Command Agent Launcher 123.v37cfdc92ef67 Agent Management Allows agents to be launched using a specified command.	14 days ago
<input type="checkbox"/>	Oracle Java SE Development Kit Installer 83.v417146707a_3d Allows the Oracle Java SE Development Kit (JDK) to be installed via download from Oracle's website.	3 mo 3 days ago
<input type="checkbox"/>	Pipeline: REST API 2.37 User Interface Provides a REST API to access pipeline and pipeline run data.	2 mo 10 days ago
<input checked="" type="checkbox"/>	Pipeline: Stage View 2.37 User Interface	2 mo 10 days ago

Here, we install the Pipeline Stage View plugin, which allows us to visualize all stages of the pipeline one by one, making it easier to identify and troubleshoot errors."

Here creating pipeline project:

New Item

Enter an item name

myfirstpipelinejob

Select an item type



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Folder

OK

Configure

- General
- Triggers
- Pipeline**
- Advanced

pipeline

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

Definition

Pipeline script

Script ?

```
1 pipeline {
2   agent any
3
4   stages {
5     stage('Hello') {
6       steps {
7         echo 'Hello World'
8       }
9     }
10  }
11 }
12
```

Use Groovy Sandbox ?

Save Apply

Status

</> Changes

▶ Build Now

⚙️ Configure

🗑️ Delete Pipeline

🔍 Full Stage View

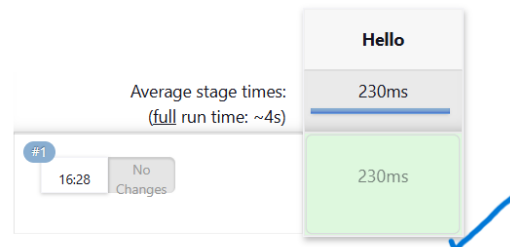
📁 Stages

✎️ Rename

❓ Pipeline Syntax

myfirstpipelinejob

Stage View



Permalinks

Builds

No builds

Today

🟢 #1 10:58 AM

Creating multistage pipeline:

Configure

General

Triggers

Pipeline

Advanced

Definition

Pipeline script

Script

```
1 pipeline {
2   agent any
3
4   stages {
5     stage('stage1') {
6       steps {
7         echo 'Hello World'
8       }
9     }
10
11    stage('stage2') {
12      steps {
13        echo 'Hello World'
14      }
15    }
16  }
17 }
```

☒ Use Groovy Sandbox

Status

Changes

Build Now

Configure


Delete Pipeline

Full Stage View

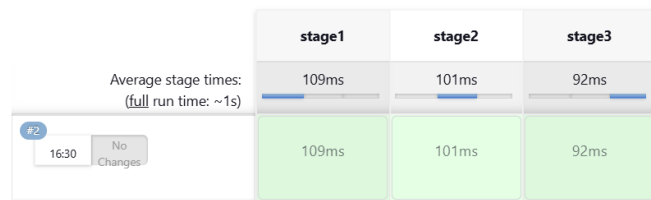
Stages

Rename

Pipeline Syntax

 myfirstpipelinejob

Stage View



Permalinks

- [Last build \(#1\), 1 min 41 sec ago](#)
- [Last stable build \(#1\), 1 min 41 sec ago](#)
- [Last successful build \(#1\), 1 min 41 sec ago](#)
- [Last completed build \(#1\), 1 min 41 sec ago](#)

Builds

Filter

Today

 #2 11:00 AM

 #1 10:58 AM

I'm setting up a CI/CD pipeline to automatically check out code from a GitHub repository."

New Item

Enter an item name

new_pro_githubpub ✓

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.



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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

Script ?

```
1 pipeline {  
2   agent any  
3  
4   stages {  
5     stage('Hello') {  
6       steps {  
7         echo 'Hello World'  
8       }  
9     }  
10  }  
11 }  
12 |
```

Hello World ▼

☒ Use Groovy Sandbox ?

Pipeline Syntax ✓

Jashboard > new_pro.githubpub > Pipeline Syntax

① Online Documentation
② Examples Reference
③ IntelliJ IDEA GDSL

checkout: Check out from version control

checkout ?

SCM
Git

Repositories ?

Repository URL ?
https://github.com/SirishaReddy1234/demo.git

Credentials ?
- none -

+ Add

Advanced

Add Repository

Branches to build ?

Branch Specifier (blank for 'any') ?
*/main

☒ Include in polling? ?

☒ Include in changelog? ?

Generate Pipeline Script

checkout scmGit(branches: [[name: '*/main']], extensions: [], userRemoteConfigs: [[url: 'https://github.com/SirishaReddy1234/demo.git']])



Global Variables

Script ?

```
1 pipeline {
2     agent any
3
4     stages {
5         stage('checkout') {
6             steps {
7                 checkout scmGit(branches: [[name: '*/main']], extensions: [], userRemoteConfigs: [[url: 'https://github.com/SirishaReddy1234/demo.git']])
8             }
9         }
10    }
11 }
12
```

☒ Use Groovy Sandbox ?

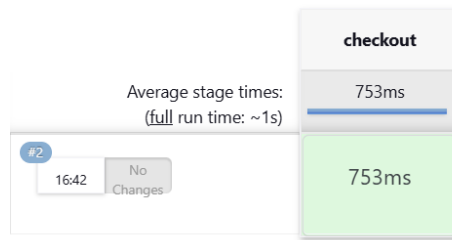
Pipeline Syntax

Status

- Changes
- Build Now
- Configure
- Delete Pipeline
- Full Stage View
- Stages
- Rename
- Pipeline Syntax

new_pro_githubpub

Stage View



Permalinks

- Last build (#1), 3 min 17 sec ago
- Last stable build (#1), 3 min 17 sec ago
- Last successful build (#1), 3 min 17 sec ago
- Last completed build (#1), 3 min 17 sec ago

Builds

Filter

Today

Changes

Console Output

- Edit Build Information
- Delete build '#2'
- Timings
- Git Build Data
- Pipeline Overview
- Pipeline Console
- Restart from Stage
- Replay
- Pipeline Steps
- Workspaces
- Previous Build

```
Started by user sirisha
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in /var/lib/jenkins/workspace/new_pro_githubpub
[Pipeline] {
[Pipeline] stage
[Pipeline] { (checkout)
[Pipeline] checkout
The recommended git tool is: NONE
No credentials specified
> git rev-parse --resolve-git-dir /var/lib/jenkins/workspace/new_pro_githubpub/.git # timeout=10
Fetching changes from the remote Git repository
> git config remote.origin.url https://github.com/SirishaReddy1234/demo.git # timeout=10
Fetching upstream changes from https://github.com/SirishaReddy1234/demo.git
> git --version # timeout=10
> git --version # 'git version 2.43.0'
> git fetch --tags --force --progress -- https://github.com/SirishaReddy1234/demo.git +refs/heads/*:refs/remotes/origin/* # timeout=10
> git rev-parse refs/remotes/origin/main^{commit} # timeout=10
Checking out Revision 258cdb84b064c39afe85feb4a79ccbd8fcd9551 (refs/remotes/origin/main)
> git config core.sparsecheckout # timeout=10
> git checkout -f 258cdb84b064c39afe85feb4a79ccbd8fcd9551 # timeout=10
Commit message: "this is a sample java project"
> git rev-list --no-walk 258cdb84b064c39afe85feb4a79ccbd8fcd9551 # timeout=10
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
```

Dashboard > new_pro_githubpub > #2 > Allocate node : Start > Workspace > Workspace

Up

Status

Console Output

Workspace

Workspace

/

.git

myapp

f1 Apr 25, 2025, 11:06:27 AM 0 B

README.md Apr 25, 2025, 11:06:27 AM 6 B

(all files in zip)