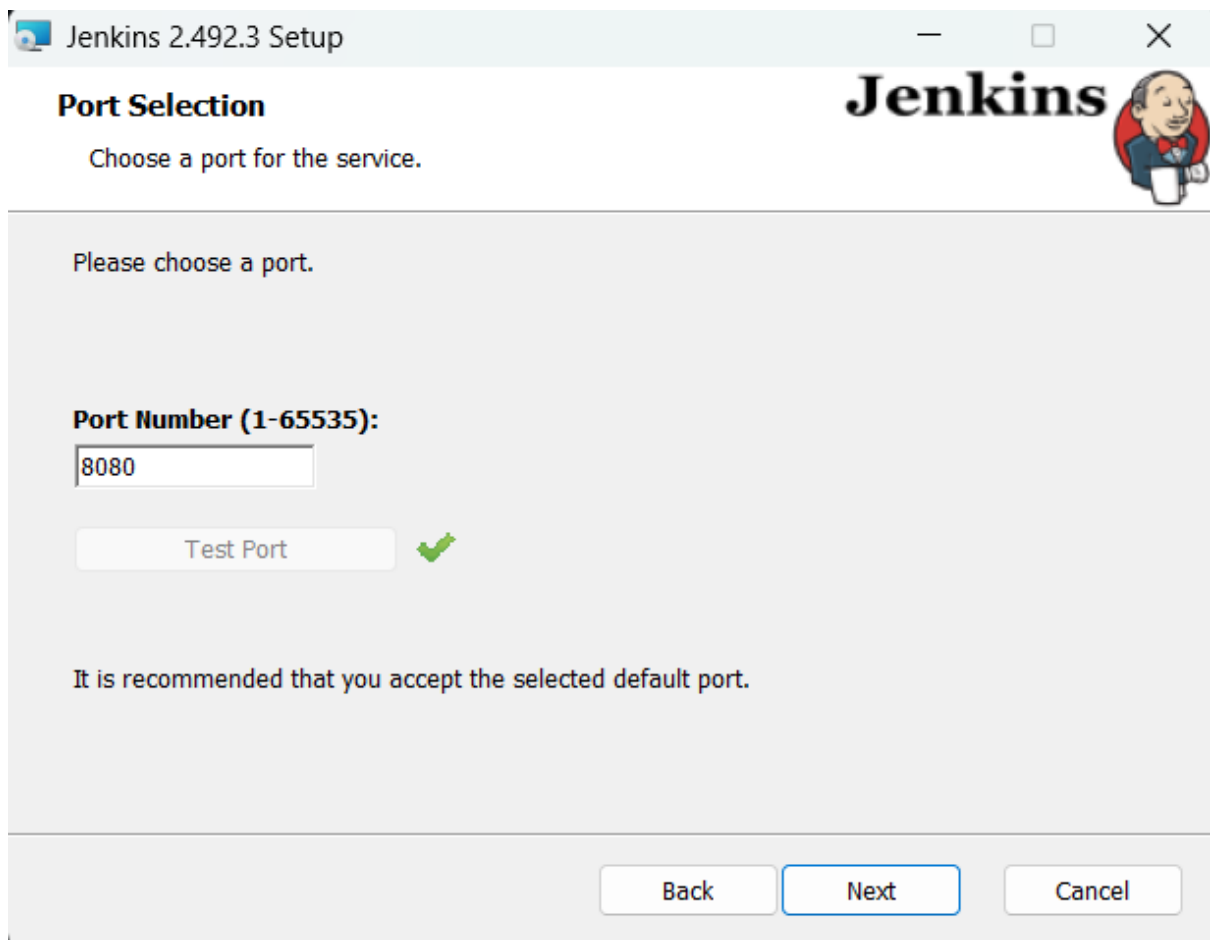
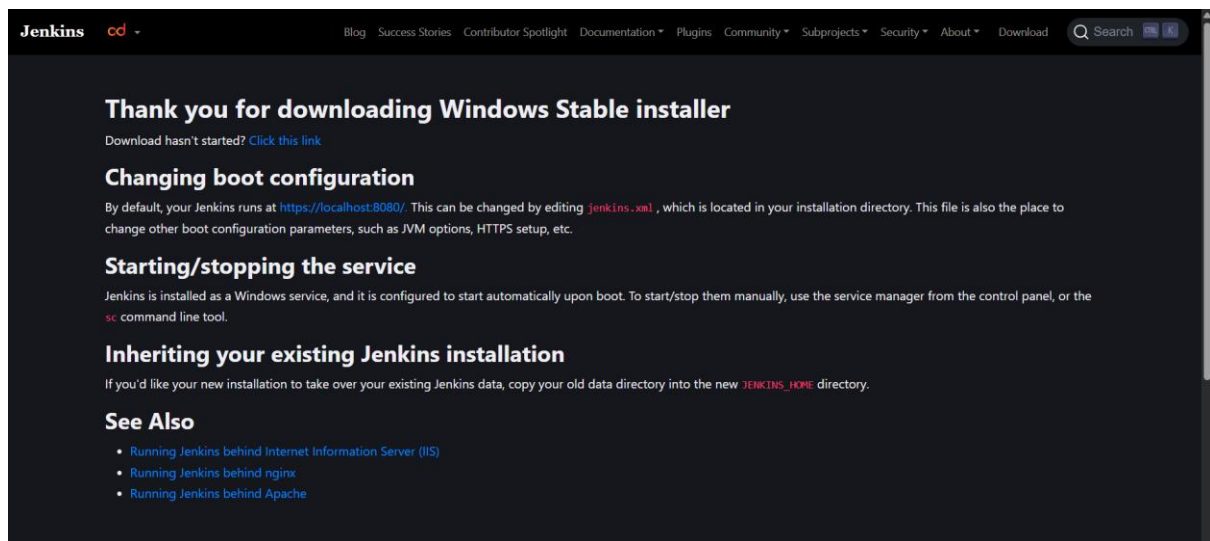
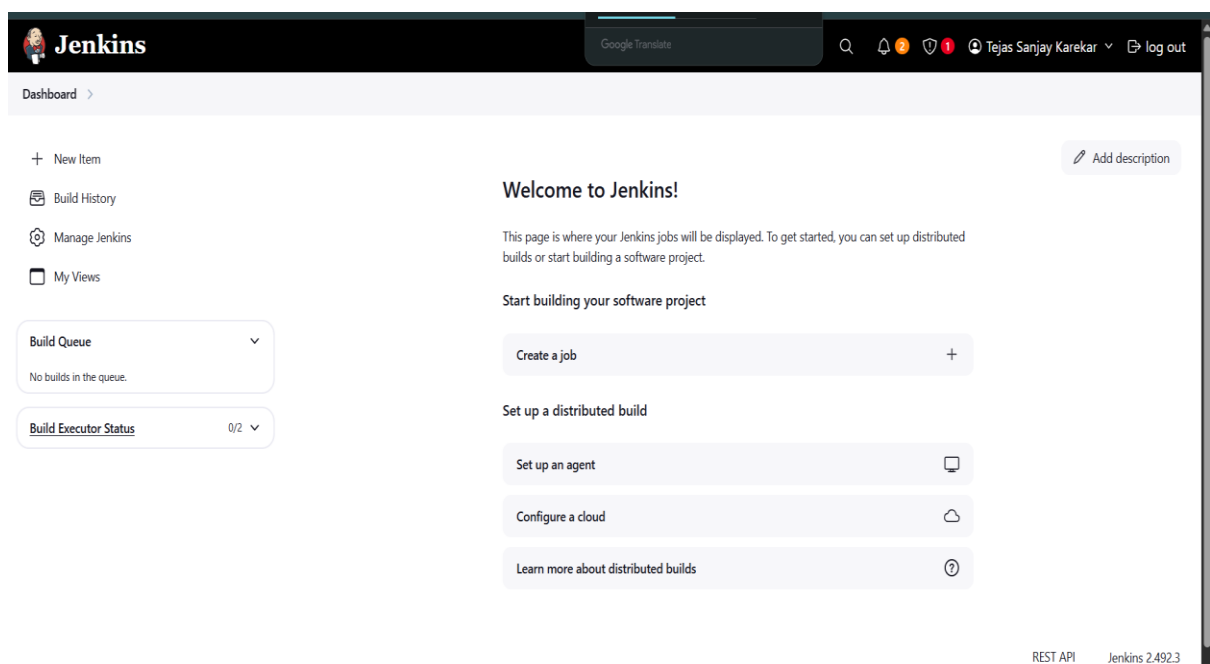


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- **Install Jenkins and configure it using setup wizard**



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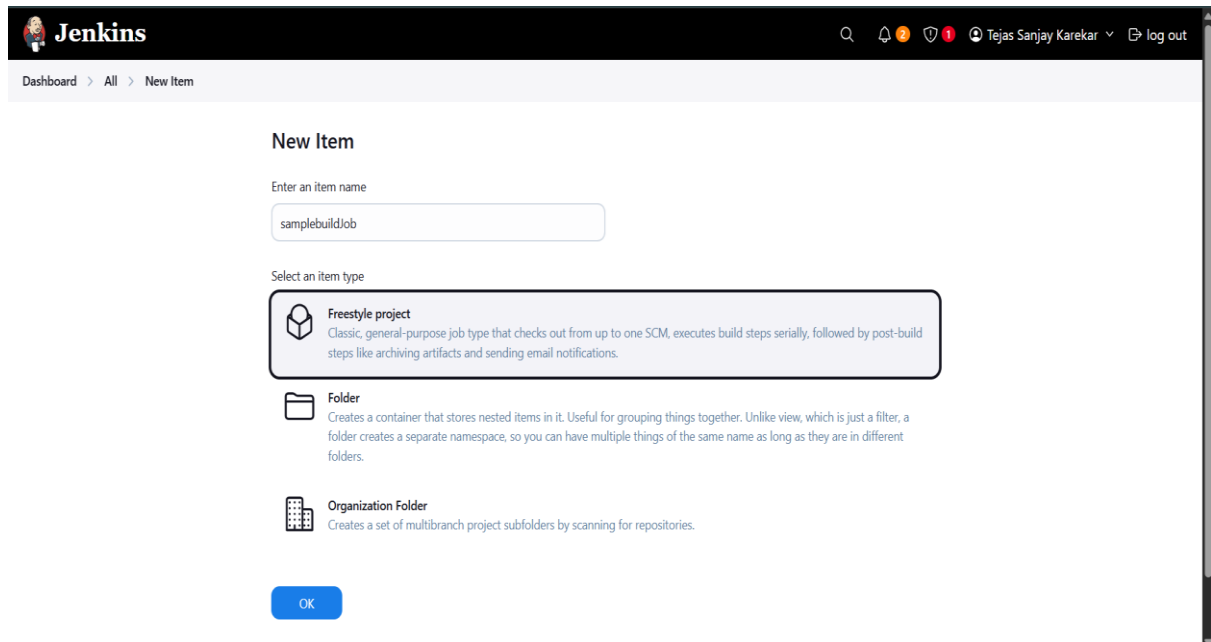


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- **Create new Free style project**



The image shows the Jenkins 'New Item' page. At the top, the Jenkins logo is on the left, and search, notifications, and user profile icons are on the right. The breadcrumb trail is 'Dashboard > All > New Item'. The main heading is 'New Item'. Below it, there's a text input field for 'Enter an item name' with the value 'samplebuildJob'. Underneath, a section 'Select an item type' lists three options: 'Freestyle project' (highlighted), 'Folder', and 'Organization Folder'. Each option has a brief description. At the bottom, there is an 'OK' button.

**Jenkins**

Dashboard > All > New Item

### New Item

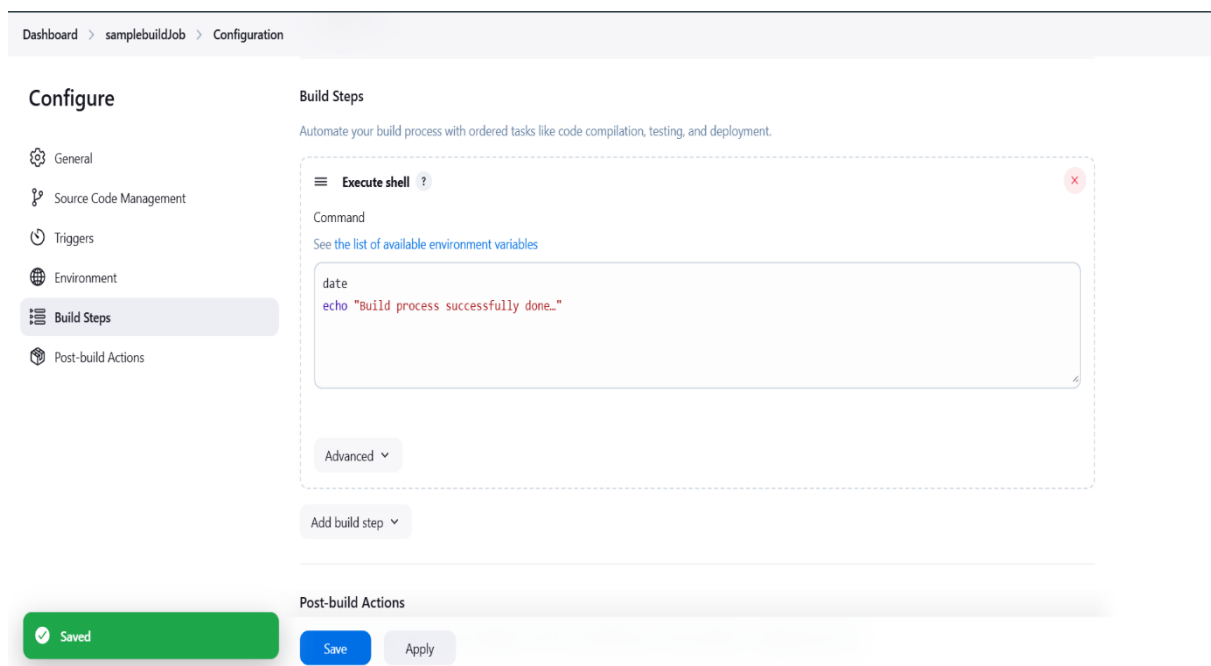
Enter an item name

samplebuildJob

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.
- 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.
- Organization Folder**  
Creates a set of multibranch project subfolders by scanning for repositories.

OK



The image shows the Jenkins 'Configuration' page for the 'samplebuildJob'. The breadcrumb trail is 'Dashboard > samplebuildJob > Configuration'. The left sidebar has a 'Configure' heading and a list of sections: General, Source Code Management, Triggers, Environment, Build Steps (selected), and Post-build Actions. The main content area is titled 'Build Steps' with a description: 'Automate your build process with ordered tasks like code compilation, testing, and deployment.' It contains a 'Execute shell' step with a command field containing 'date' and 'echo "Build process successfully done.."' (the second line is red). Below the command field is an 'Advanced' dropdown. At the bottom of the 'Build Steps' section is an 'Add build step' button. Below this is the 'Post-build Actions' section, which is currently empty. At the very bottom, there is a green 'Saved' notification bar, a 'Save' button, and an 'Apply' button.

Dashboard > samplebuildJob > Configuration

### 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 shell** ?

Command

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

```
date  
echo "Build process successfully done.."
```

Advanced ▾

Add build step ▾

#### Post-build Actions

Save Apply

✓ Saved

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• Trigger the build

Dashboard > sampledeployjob > Configuration

Configure

General

Source Code Management

Triggers

Environment

Build Steps

Post-build Actions

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

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

☒ Build after other projects are built ?

Projects to watch

samplebuildjob,

☒ Trigger only if build is stable

☐ Trigger even if the build is unstable

☐ Trigger even if the build fails

☐ Always trigger, even if the build is aborted

☐ Build periodically ?

☐ Poll SCM ?

Environment

Configure settings and variables that define the context in which your build runs, like credentials, paths, and global parameters.

Save

Apply

Dashboard > SampleTestJob > Configuration

Configure

General

Source Code Management

Triggers

Environment

Build Steps

Post-build Actions

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

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

☒ Build after other projects are built ?

Projects to watch

sampledeployjob,

☒ Trigger only if build is stable

☐ Trigger even if the build is unstable

☐ Trigger even if the build fails

☐ Always trigger, even if the build is aborted

☐ Build periodically ?

☐ Poll SCM ?

Environment

Configure settings and variables that define the context in which your build runs, like credentials, paths, and global parameters.

Save

Apply

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Dashboard > SampleReleaseJob > Configuration

Configure

General

Source Code Management

Triggers

Environment

Build Steps

Post-build Actions

Triggers

Set up automated actions that start your build based on specific events, like code changes or scheduled times.

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

☒ Build after other projects are built ?

Projects to watch

SampleTestJob,

☒ Trigger only if build is stable

☐ Trigger even if the build is unstable

☐ Trigger even if the build fails

☐ Always trigger, even if the build is aborted

☐ Build periodically ?

☐ Poll SCM ?

Environment

Configure settings and variables that define the context in which your build runs, like credentials, paths, and global parameters.

Save

Apply

Jenkins

Tejas Sanjay Karekar

log out

Dashboard >

+ 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	
✓	☀	samplebuildjob	29 sec #1	N/A	0.35 sec	▶
✓	☀	sampledeployjob	21 sec #1	N/A	0.16 sec	▶
✓	☀	SampleReleaseJob	1.1 sec #1	N/A	0.22 sec	▶
✓	☀	SampleTestJob	11 sec #1	N/A	0.16 sec	▶


Icons: S M L

REST API

Jenkins 2.492.3


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• Create pipeline of jobs


Jenkins

Dashboard > New view

+ New Item

 Build History

 Manage Jenkins

 My Views

Build Queue

No builds in the queue.

Build Executor Status

0/2

New view

Name

JobPipeline

Type

☒ Build Pipeline View

Shows the jobs in a build pipeline view. The complete pipeline of jobs that a version propagates through are shown as a row in the view.

☐ List View

Shows items in a simple list format. You can choose which jobs are to be displayed in which view.

☐ My View

This view automatically displays all the jobs that the current user has an access to.

Create

REST APIJenkins 2.504.1

Dashboard > JobPipeline > Edit View

Pipeline Flow

Layout

Based on upstream/downstream relationship

This layout mode derives the pipeline structure based on the upstream/downstream trigger relationship between jobs. This is the only out-of-the-box supported layout mode, but is open for extension.

Upstream / downstream config

Select Initial Job ?

samplebuildjob

Trigger Options

Build Cards

Standard build card

Save

Apply

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- **Analyze the result**

The screenshot shows the Jenkins 'Build Pipeline' dashboard. At the top, there's a navigation bar with the Jenkins logo and a search icon. Below it, the breadcrumb 'Dashboard > JobPipeline >' is visible. The main section is titled 'Build Pipeline' and contains a row of five job cards. The first card is a grey box labeled 'Pipeline #1'. The subsequent four cards are green and represent individual jobs in a sequence: '#1 samplebuildjob', '#1 sampledeployjob', '#1 SampleTestJob', and '#1 SampleReleaseJob'. Each job card displays its start time (06-May-2025 5:26:51 pm), duration (0.35 sec, 0.16 sec, 0.16 sec, and 0.22 sec respectively), and the user 'tejas'. Arrows indicate the flow from one job to the next. Below the job cards, there's a row of icons for 'Run', 'History', 'Configure', 'Add Step', 'Delete', and 'Manage'. At the bottom right, the text 'REST API' and 'Jenkins 2.504.1' is displayed.

- **Plugin git to Jenkin**

The screenshot shows the Jenkins 'New Item' page. The top navigation bar includes the Jenkins logo, a search icon, a shield icon, a user profile icon for 'Tejas Sanjay Karekar', and a 'log out' button. The breadcrumb 'Dashboard > All > New Item' is visible. The main section is titled 'New Item'. It has a text input field for 'Enter an item name' with the value 'GitDemo'. Below this is a section 'Select an item type' with four options: 'Freestyle project', 'Pipeline', 'Multi-configuration project', and 'Folder'. The 'Pipeline' option is highlighted with a blue border. At the bottom, there is a blue 'OK' button.

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Dashboard > GitDemo > Configuration

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/TejasKarekar/DevOpsProgram.git

Credentials ?

TejasKarekar

+ Add

Save Apply

Jenkins

Tejas Sanjay Karekar

log out

Dashboard > GitDemo > #2

Status

Changes

Console Output

Edit Build Information

Delete build '#2'

Timings

Pipeline Console

Replay

Pipeline Steps

Workspaces

Console Output

Download Copy View as plain text

Started by user Tejas Sanjay Karekar  
Obtained Jenkinsfile from git https://github.com/TejasKarekar/DevOpsProgram.git  
[Pipeline] Start of Pipeline  
[Pipeline] End of Pipeline  
Finished: SUCCESS