


# Jenkins CICD Pipeline Setup, Plugin Management, Freestyle Job, and Dockerized Web Deployment

## 1. Jenkins Server Setup, Initial Jenkins Configuration, Plugin Management.

localhost:9090/login?from=%2F

GmailSham Ramakant Ch...Me | Attendance | L...Amazon Web Servic...AppEdureka Learning ...GitHub

All Bookmarks



### Sign in to Jenkins

Username

Password

☐ Keep me signed in

Sign in

Dashboard > Manage Jenkins > Plugins

### Plugins

Updates

Available plugins

Installed plugins

Advanced settings

Download progress

Search installed plugins

	Enabled	
<b>Ant Plugin</b> 513.vde9e7b_a_Oda_0f Adds Apache Ant support to Jenkins <a href="#">Report an issue with this plugin</a>	<input checked="" type="checkbox"/>	
<b>Apache HttpComponents Client 4.x API Plugin</b> 4.5.14-269.vfa_2321039a_83 Bundles Apache HttpComponents Client 4.x and allows it to be used by Jenkins plugins. <a href="#">Report an issue with this plugin</a>	<input checked="" type="checkbox"/>	
<b>Apache HttpComponents Client 5.x API Plugin</b> 5.5-150.veb_76e719855b_ Bundles Apache HttpComponents Client 5.5 and allows it to be used by Jenkins plugins. <a href="#">Report an issue with this plugin</a>	<input checked="" type="checkbox"/>	
<b>ASM API Plugin</b> 9.8-135.vb_2239d08ee90 This plugin provides the ASM APIs (v9.8) for other plugins. <a href="#">Report an issue with this plugin</a>	<input checked="" type="checkbox"/>	
<b>Authentication Tokens API Plugin</b> 1.131.v7199556c3004 This plugin provides an API for converting credentials into authentication tokens in Jenkins. <a href="#">Report an issue with this plugin</a>	<input checked="" type="checkbox"/>	
<b>Bitbucket Branch Source Plugin</b> 936.4.3 Allows to use Bitbucket Cloud and Bitbucket Server as sources for multi-branch projects. It also provides the required connectors for Bitbucket Cloud Team and Bitbucket Server Project folder (also known as repositories auto-discovering). <a href="#">Report an issue with this plugin</a>	<input checked="" type="checkbox"/>	
<b>Bitbucket Pipeline for Blue Ocean</b> 1.27.21 BlueOcean Bitbucket pipeline creator	<input checked="" type="checkbox"/>	

**Jenkins**

sham chaudhari

log out

Dashboard >

+ New Item

Build History

Manage Jenkins

My Views

Open Blue Ocean

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

Add description

REST APIJenkins 2.504.3

## 2. Create a Freestyle Job and Configure the Job.

Jenkins

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Dashboard > New Item


### New Item


Enter an item name


Automated-CI-CD-Pipeline

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**  
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.

OK

Dashboard > Automated-CI-CD-Pipeline > Configuration

### Configure

General

Source Code Management

Triggers

Environment

Build Steps

Post-build Actions

#### Source Code Management

Connect and manage your code repository to automatically pull the latest code for your builds.

☐ None

☒ Git ?

Repositories ?

Repository URL ?

https://github.com/sham9394/cafe\_baristha.git

Please enter Git repository.

Credentials ?

- none -

+ Add

Advanced

Save Apply

## Build Steps.

Dashboard > Automated-CI-CD-Pipeline > Configuration

### Configure

General

Source Code Management

Triggers

Environment

Build Steps

Post-build Actions

Execute Windows batch command ?

Command

See the list of available environment variables

docker build -t cafe\_baristha .

Advanced

Execute Windows batch command ?

Command

See the list of available environment variables

docker run -d -p 80:80 cafe\_baristha

Advanced

Save Apply

Output

Jenkins

🔍

🛡️ 1

👤 sham chaudhari

🚪 log out

Dashboard >

+ New Item

📅 Build History

⚙️ Manage Jenkins

📄 My Views

🌊 Open Blue Ocean

Build Queue

No builds in the queue.

Build Executor Status

0/2

All

+

S	W	Name ↓	Last Success	Last Failure	Last Duration	F
🟢	☁️	Automated-CI-CD-Pipeline	3 min 28 sec #2	17 min #1	44 sec	▶️ ☆

Icon: S M L

Jenkins

🔍

🛡️ 1

👤 sham chaudhari

🚪 log out

Dashboard > sham chaudhari > My Views > All >

+ New Item

📅 Build History

Build Queue

No builds in the queue.

Build Executor Status

0/2

All

+

S	W	Name ↓	Last Success	Last Failure	Last Duration	F
🟢	☁️	Automated-CI-CD-Pipeline	4 min 29 sec #2	18 min #1	44 sec	▶️ ☆

Icon: S M L

Jenkins

🔍

🛡️ 1

👤 sham chaudhari

🚪 log out

Dashboard > Automated-CI-CD-Pipeline >

📄 Status

</> Changes

📁 Workspace

▶️ Build Now

⚙️ Configure

🗑️ Delete Project

☆ Favorite

🌊 Open Blue Ocean

✎️ Rename

Builds

🔍 Filter

Today

🟢 #2 12:25

🔴 #1 12:11

🟢 Automated-CI-CD-Pipeline

Add description

Permalinks

- Last build (#2), 2 min 44 sec ago
- Last stable build (#2), 2 min 44 sec ago
- Last successful build (#2), 2 min 44 sec ago
- Last failed build (#1), 16 min ago
- Last unsuccessful build (#1), 16 min ago
- Last completed build (#2), 2 min 44 sec ago

Jenkins

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👤 sham chaudhari

🔑 log out

Dashboard > Automated-CI-CD-Pipeline > #2 > Console Output

Status

</> Changes

Console Output

Edit Build Information

Timings

Git Build Data

Open Blue Ocean

Previous Build

✓ Console Output

Download

Copy

View as plain text

Started by user sham chaudhari

Running as SYSTEM

Building in workspace C:\ProgramData\Jenkins\jenkins\workspace\Automated-CI-CD-Pipeline

The recommended git tool is: NONE

No credentials specified

> git.exe rev-parse --resolve-git-dir C:\ProgramData\Jenkins\jenkins\workspace\Automated-CI-CD-Pipeline\.git # timeout=10

Fetching changes from the remote Git repository

> git.exe config remote.origin.url https://github.com/sham9394/caffe\_baristha.git # timeout=10

Fetching upstream changes from https://github.com/sham9394/caffe\_baristha.git

> git.exe --version # timeout=10

> git --version # 'git version 2.50.0.windows.2'

> git.exe fetch --tags --force --progress -- https://github.com/sham9394/caffe\_baristha.git +refs/heads/\*:refs/remotes/origin/\* # timeout=10

> git.exe rev-parse "refs/remotes/origin/main^{commit}" # timeout=10

Checking out Revision 900076ffbf7254d6fc108d14e810f18e80678ea (refs/remotes/origin/main)

> git.exe config core.sparsecheckout # timeout=10

> git.exe checkout -f 900076ffbf7254d6fc108d14e810f18e80678ea # timeout=10

Commit message: "Update index.html"

> git.exe rev-list --no-walk 900076ffbf7254d6fc108d14e810f18e80678ea # timeout=10

[Automated-CI-CD-Pipeline] \$ cmd /c call C:\WINDOWS\TEMP\jenkins15166076923470831294.bat

C:\ProgramData\Jenkins\jenkins\workspace\Automated-CI-CD-Pipeline>docker build -t caffe\_baristha .

#0 building with "default" instance using docker driver

Dashboard > Automated-CI-CD-Pipeline > #2 > Console Output

#7 exporting attestation manifest sha256:0f75c35ba27a13a8db067125872ef61b20c75ad365c8b44e39d5fbb07a0bc9f8

#7 exporting attestation manifest sha256:0f75c35ba27a13a8db067125872ef61b20c75ad365c8b44e39d5fbb07a0bc9f8 0.1s done

#7 exporting manifest list sha256:383a34af19532a2a17e3571f7c8ef982baaeb3f10c3c462619fdf06a19cc90da 0.1s done

#7 naming to docker.io/library/caffe\_baristha:latest 0.0s done

#7 unpacking to docker.io/library/caffe\_baristha:latest

#7 unpacking to docker.io/library/caffe\_baristha:latest 0.7s done

#7 DONE 2.9s

C:\ProgramData\Jenkins\jenkins\workspace\Automated-CI-CD-Pipeline>exit 0

[Automated-CI-CD-Pipeline] \$ cmd /c call C:\WINDOWS\TEMP\jenkins12307353232910563591.bat

C:\ProgramData\Jenkins\jenkins\workspace\Automated-CI-CD-Pipeline>docker run -d -p 80:80 caffe\_baristha

e88b30e1e437ba6b8cfe09c8dbd441ae31495d734d5e749a13fcb65657523f9

C:\ProgramData\Jenkins\jenkins\workspace\Automated-CI-CD-Pipeline>exit 0

[Automated-CI-CD-Pipeline] \$ cmd /c call C:\WINDOWS\TEMP\jenkins16807905434008090775.bat

C:\ProgramData\Jenkins\jenkins\workspace\Automated-CI-CD-Pipeline>docker images

REPOSITORY TAG IMAGE ID CREATED SIZE

caffe\_baristha latest 383a34af1953 7 seconds ago 299MB

C:\ProgramData\Jenkins\jenkins\workspace\Automated-CI-CD-Pipeline>docker ps

CONTAINER ID IMAGE COMMAND CREATED STATUS PORTS NAMES

e88b30e1e437 caffe\_baristha "/docker-entrypoint..." 3 seconds ago Up 2 seconds 0.0.0.0:80->80/tcp, [::]:80->80/tcp quirky\_1ewin

C:\ProgramData\Jenkins\jenkins\workspace\Automated-CI-CD-Pipeline>exit 0

Finished: SUCCESS

← → ↺ 🌐 localhost

Gmail

Sham Ramakant Ch...

Me | Attendance | L...

Amazon Web Servic...

App

Eureka Learning ...

GitHub

All Bookmarks

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