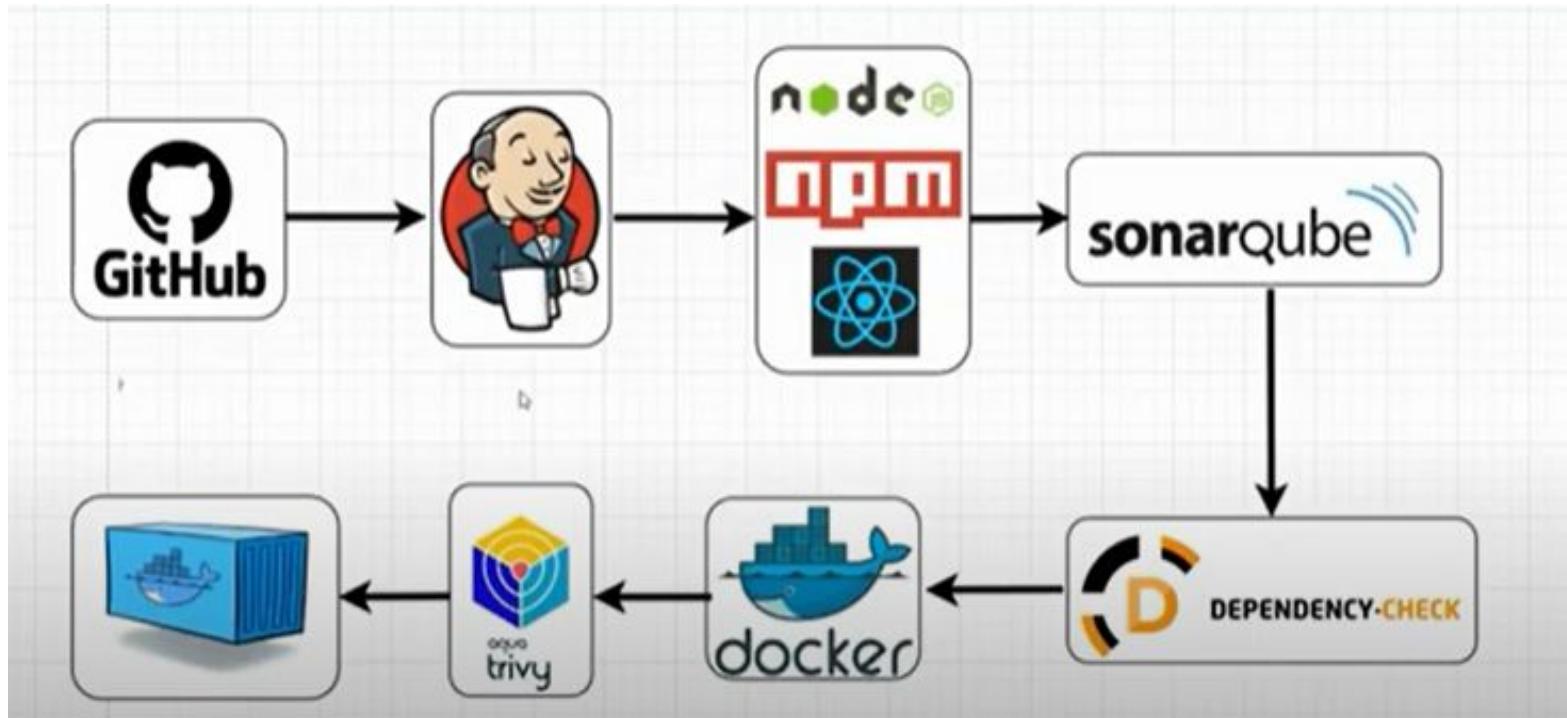


CI_CD jenkins_todoapp



Link: <https://www.oracle.com/in/java/technologies/downloads/#jdk21-windows>



Products Industries Resources Customers Partners Developers Company



View Accounts



Contact Sales

Tools and resources

Java downloads

Java archive

Earlier JDK versions are available below.

JDK 24

JDK 23

JDK 21

GraalVM for JDK 24

GraalVM for JDK 23

GraalVM for JDK 21

Java SE Development Kit 21.0.6 downloads

JDK 21 binaries are free to use in production and free to redistribute, at no cost, under the [Oracle No-Fee Terms and Conditions \(NFTC\)](#).

JDK 21 will receive updates under the NFTC, until September 2026, a year after the release of the next LTS. Subsequent JDK 21 updates will be licensed under the Java SE OTN License (OTN) and production use beyond the [limited free grants](#) of the OTN license will [require a fee](#).

Linux

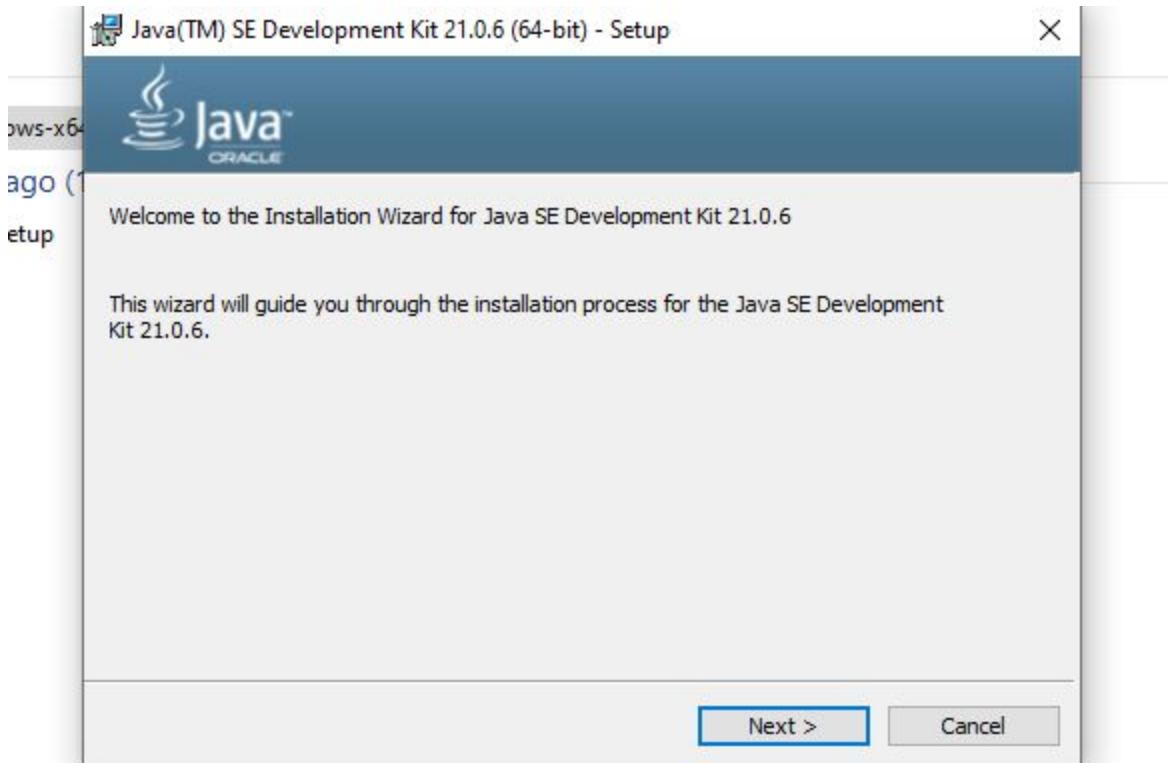
macOS

Windows

Product/file description	File size	Download
x64 Compressed Archive	185.92 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.zip (sha256)
x64 Installer	164.31 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.exe (sha256)
x64 MSI Installer	163.06 MB	https://download.oracle.com/java/21/latest/jdk-21_windows-x64_bin.msi (sha256)

Documentation Download

Click on this and download





Java(TM) SE Development Kit 21.0.6 (64-bit) - Destination Folder



This will install the Java(TM) SE Development Kit 21.0.6 (64-bit), which requires 420MB on your hard drive. Click the "Change" button to change the installation folder.



Install Java(TM) SE Development Kit 21.0.6 (64-bit) to:

C:\Program Files\Java\jdk-21\

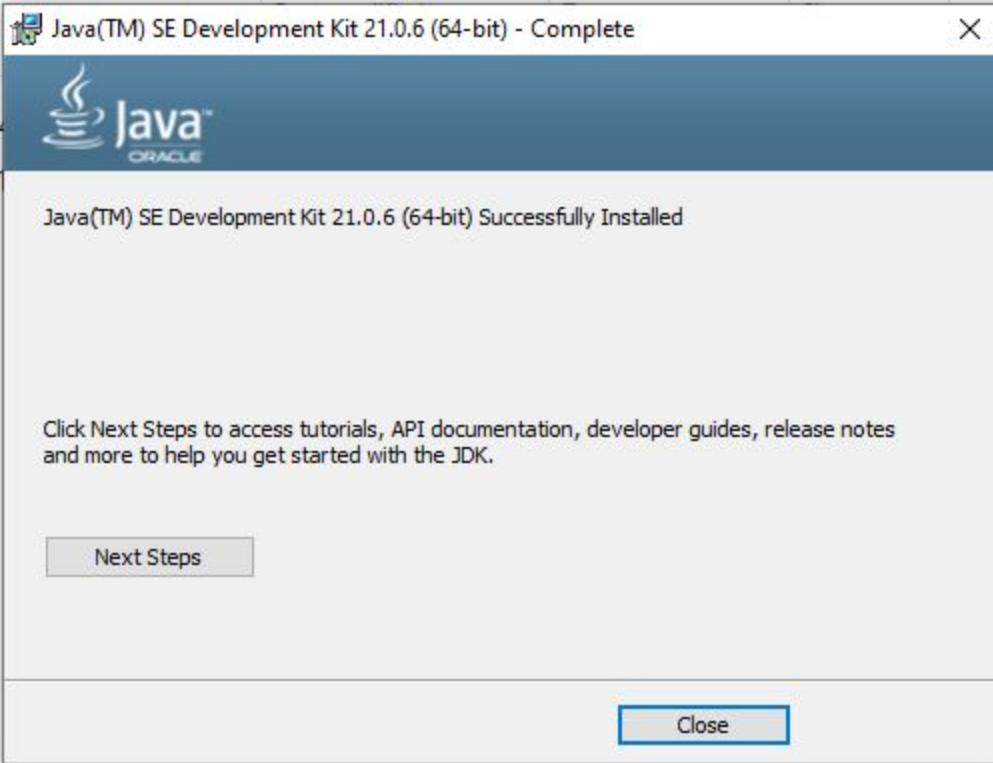
Change...

1

Back

Next

Cancel



Settings

 Edit environment variables for your account >

Search the web

 environme - See more search results >

 environment variable >

 environment >

 environmental pollution >

 environment day >

 environmental science >

 environment variables path >

 Environmental issues >

 environment images >

 environmental policy >

 environme >

Edit the system environment variables

Control panel

Open

Click on this and edit environment variables

System Properties

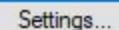


Computer Name Hardware Advanced System Protection Remote

You must be logged on as an Administrator to make most of these changes.

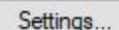
Performance

Visual effects, processor scheduling, memory usage, and virtual memory



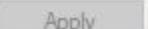
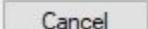
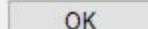
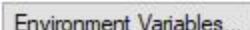
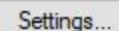
User Profiles

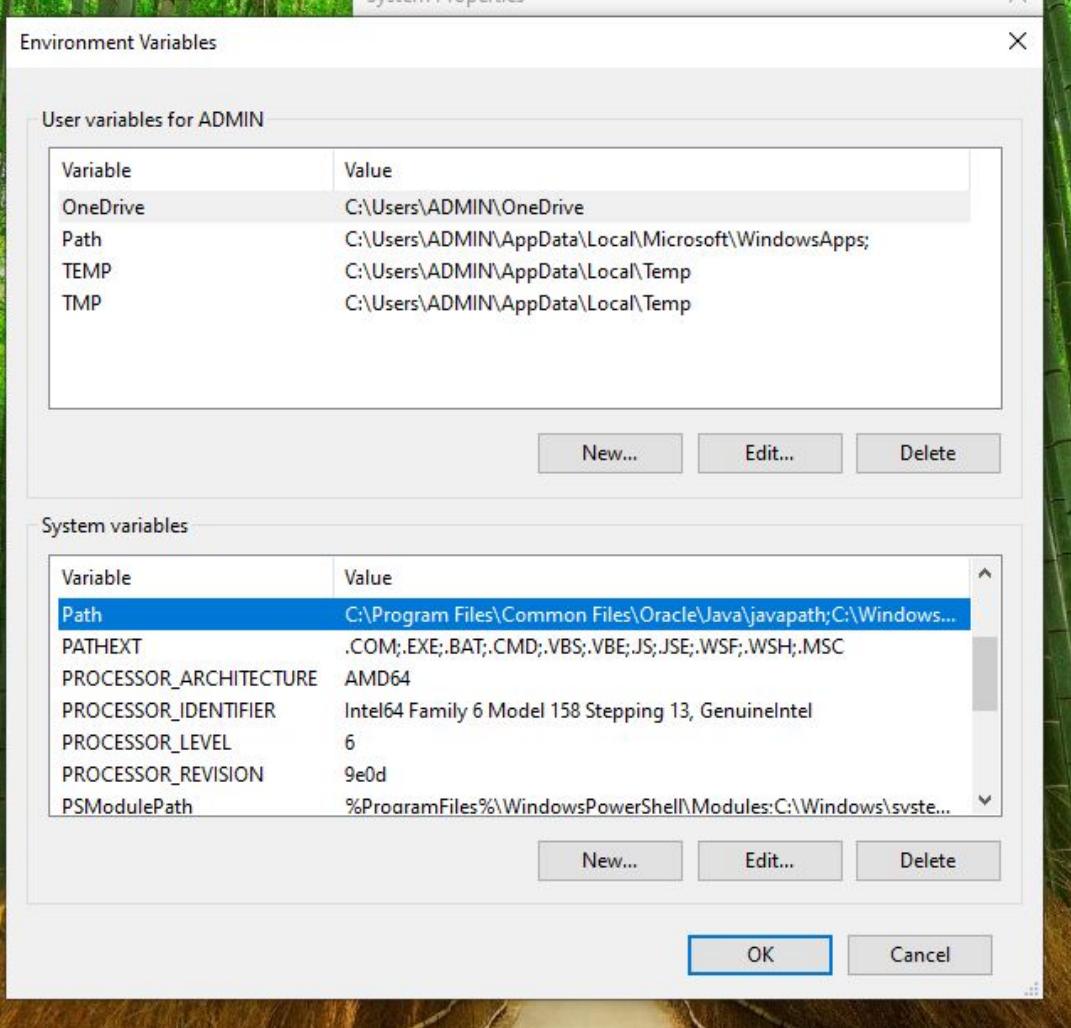
Desktop settings related to your sign-in



Startup and Recovery

System startup, system failure, and debugging information





Select the Path variable
and click on edit

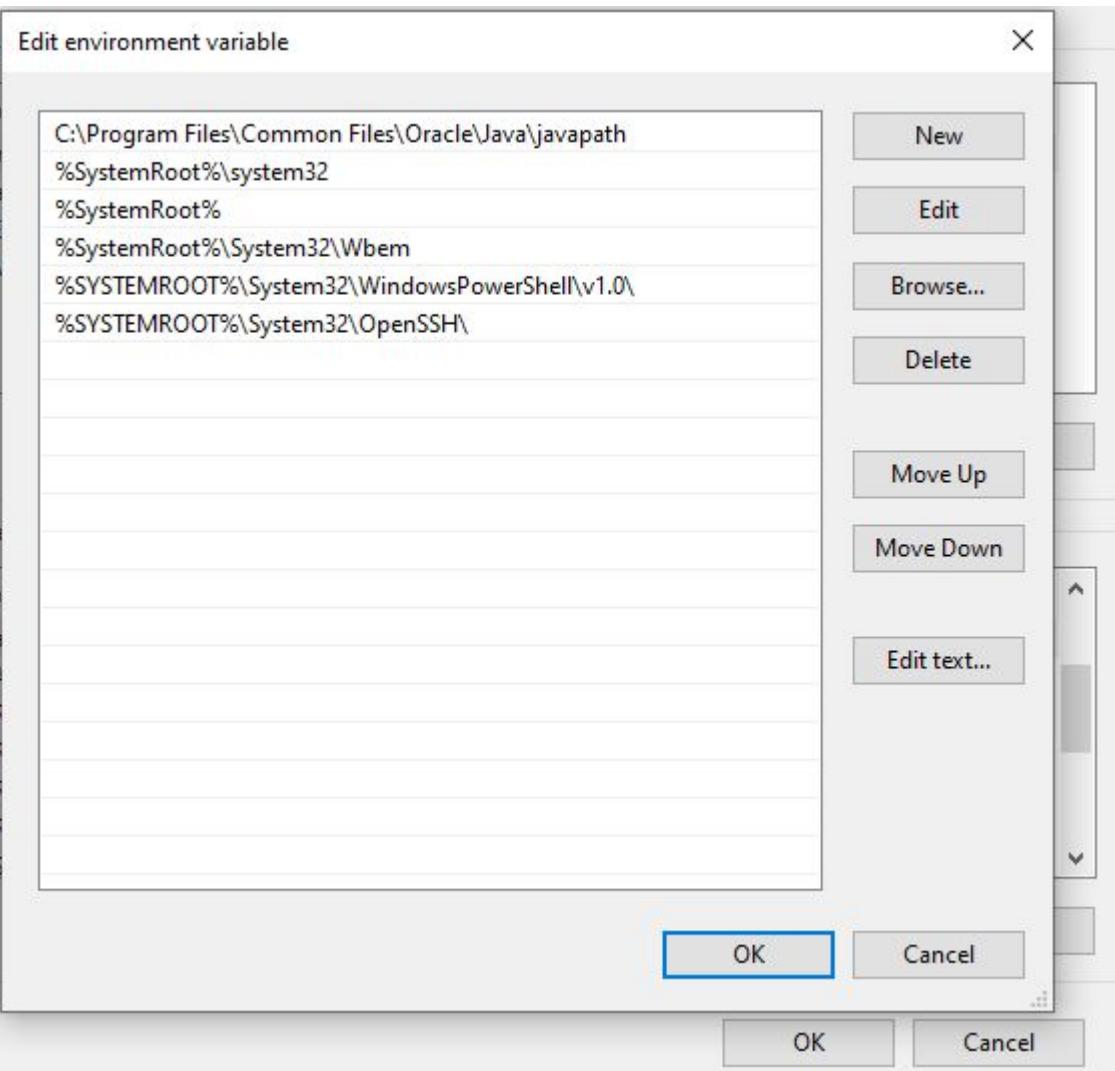


File Home Share View

Get the path

← → ⌂ ⌃ ⌄ This PC > Win-10 (C:) > Program Files > Java > jdk-21 > bin

Name	Date modified	Type	Size
server	28-03-2025 09:55 AM	File folder	
api-ms-win-core-console-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-console-l1-2-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-datetime-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-debug-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-errorhandling-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-fibers-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-file-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	26 KB
api-ms-win-core-file-l1-2-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-file-l2-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-handle-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-heap-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-interlocked-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-libraryloader-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-localization-l1-2-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-memory-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-namedpipe-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-processenvironment-l1...	28-03-2025 09:55 AM	Application exten...	22 KB
api-ms-win-core-processthreads-l1-1-0.dll	28-03-2025 09:55 AM	Application exten...	22 KB



Click on new and paste the path(**C:\Program Files\Java\jdk-21\bin**) where java is installed in your system.

Environment Variables



User

Edit environment variable

Va

O

Pa

TE

TM

C:\Program Files\Common Files\Oracle\Java\javapath
%SystemRoot%\system32
%SystemRoot%
%SystemRoot%\System32\Wbem
%SYSTEMROOT%\System32\WindowsPowerShell\v1.0\
%SYSTEMROOT%\System32\OpenSSH\
C:\Program Files\Java\jdk-21\bin

New

Edit

Browse...

Delete

Move Up

Move Down

Edit text...

Syste

Va

Pa

PA

PR

PR

PR

PR

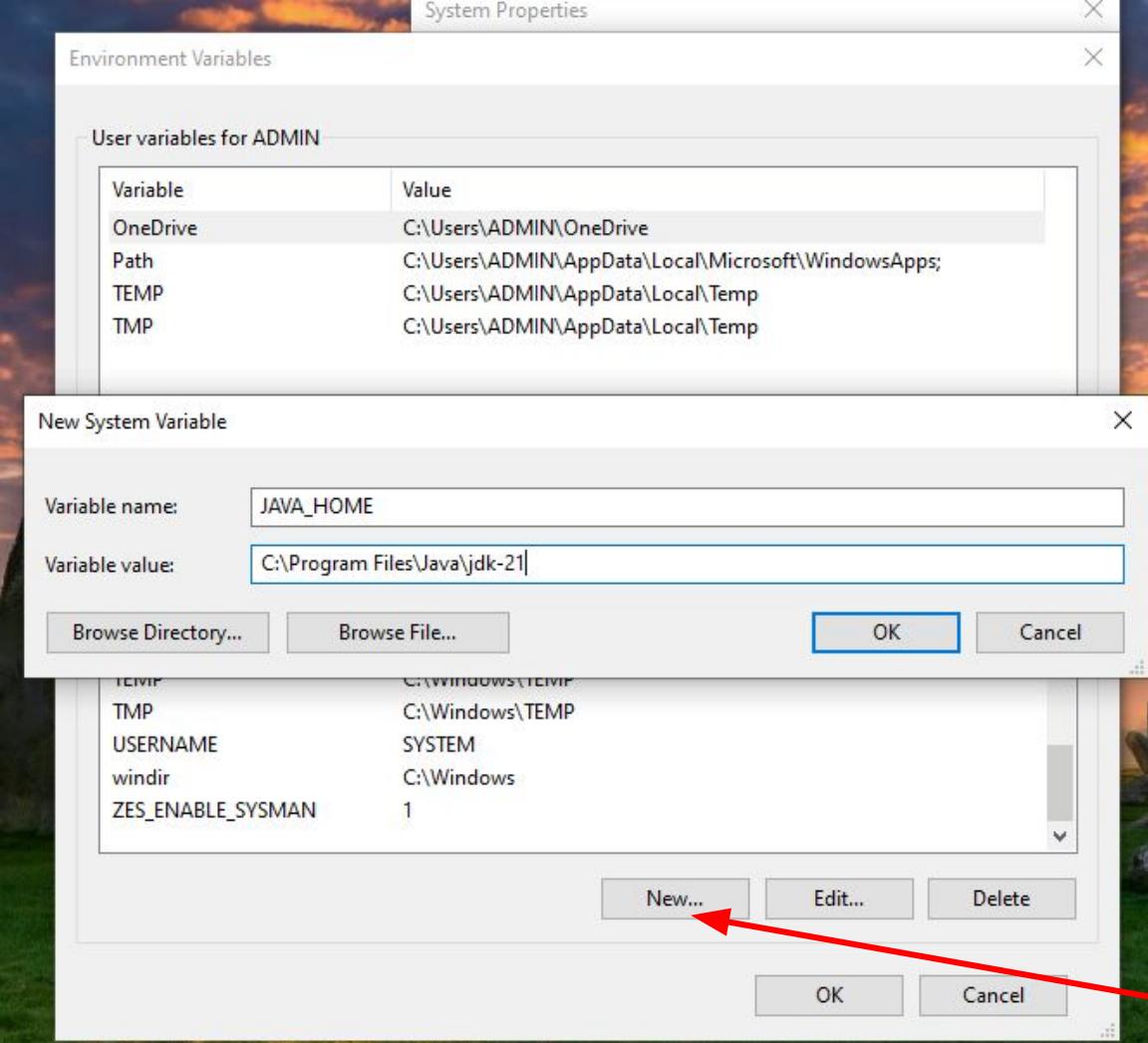
PS

OK

Cancel

OK

Cancel



Click on new and add JAVA_HOME environment variable and paste the path.

Jenkins Installation

[All](#) [Images](#) [Videos](#) [News](#) [Shopping](#) [Short videos](#) [Forums](#) [More](#)[Tools](#)**Jenkins**<https://www.jenkins.io>

Jenkins

Jenkins is the most used CI/CD platform in the world. It's one of the oldest, most mature systems in continuous integration and delivery, and it powers software ...

Download and deploy

[Downloading Jenkins](#) · Before downloading, please take a ...



Jenkins User Documentation

[Jenkins User Documentation](#). Welcome to the Jenkins user ...



Tutorials overview

[Pipeline](#) · [Getting started with Jenkins Pipeline](#) · [Declarative ...](#)



Installing Jenkins

[Installing Jenkins](#) ... The procedures in this chapter are ...



Pipeline

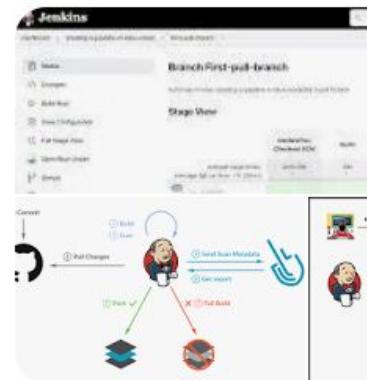
The definition of a Jenkins Pipeline is written into a text file (called a ...)



[More results from jenkins.io](#) »

Jenkins

Software :



Jenkins is an open source automation tool that helps you to build, test, and deploy your software continuously. It integrates with various tools and services to automate the parts of software development, such as building, testing, and deploying. Jenkins is widely used in the software development industry for its ease of use and flexibility.

[Wikipedia](#) >

Programming language: **Java**

Developed by Kohsuke Kawaguchi

Download and deploy

Link: <https://www.jenkins.io/download/>

The Jenkins project produces two release lines: Stable (LTS) and weekly. Depending on your organization's needs, one may be preferred over the other. See the links below for more information and recommendations about the release lines.

Stable (LTS)

Long-Term Support (LTS) release baselines are chosen every 12 weeks from the stream of regular releases. Every 4 weeks we release stable releases which include bug and security fix backports. [Learn more...](#)

[Changelog](#)[Upgrade Guide](#)[Past Releases](#)

Weekly releases

This release line delivers bug fixes and new features rapidly to users and plugin developers who need them. It is generally delivered on a weekly cadence. [Learn more...](#)

[Changelog](#)[Past Releases](#)

Downloading Jenkins

Jenkins is distributed as WAR files, native packages, installers, and Docker images. Follow these installation steps:

1. Before downloading, please take a moment to review the [Hardware and Software requirements](#) section of the User Handbook.
2. Select one of the packages below and follow the download instructions.

Choose this

Download Jenkins 2.492.2 LTS for:

 Generic Java package (.war)	SHA-256: ae60fb5f07ca4cd423a4737ed71f3b54ecf14666bb98a0cbff6a773540c2275	
 Docker		
 Kubernetes		
 Ubuntu/Debian		
 Red Hat Enterprise Linux and derivatives		
 Fedora		
 Windows		
 openSUSE		
 FreeBSD	Third party	
 Gentoo	Third party	
 macOS	Third party	

Click on windows to
download
jenkins.msi file

Download Jenkins 2.503 for:

 Generic Java package (.war)	SHA-256: d3285083d58b3c5f257173139ca9f299dd76acb87de89023295b75d1481e3b65	
 Docker		
 Ubuntu/Debian		
 Red Hat Enterprise Linux and derivatives		
 Fedora		
 Windows		
 openSUSE		
 Arch Linux	Third party	
 FreeBSD	Third party	
 Gentoo	Third party	
 macOS	Third party	

Thank you for downloading Windows Stable installer

Download hasn't started? [Click this link](#)

Changing boot configuration

By default, your Jenkins runs at <https://localhost:8080/>. This can be changed by editing `jenkins.xml`, which is located in your installation directory. This file is also used to change other boot configuration parameters, such as JVM options, HTTPS setup, etc.

Starting/stopping the service

Jenkins is installed as a Windows service, and it is configured to start automatically upon boot. To start/stop them manually, use the service manager from the Control Panel, or the `sc` command line tool.

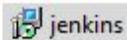
Inheriting your existing Jenkins installation

If you'd like your new installation to take over your existing Jenkins data, copy your old data directory into the new `JENKINS_HOME` directory.

See Also

- [Running Jenkins behind Internet Information Server \(IIS\)](#)
- [Running Jenkins behind nginx](#)
- [Running Jenkins behind Apache](#)

Today (2)

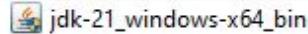


jenkins

28-03-2025 11:11 AM

Windows Installer ...

1,00,424 KB



28-03-2025 09:51 AM

Application

1,68,256 KB

A long time ago (1)



15-03-2024 11:15 AM

Application

4,44,066 KB

Open File - Security Warning



Do you want to run this file?



Name: <C:\Users\ADMIN\Downloads\jenkins.msi>

Publisher: [CDF Binary Project a Series of LF Projects, LLC](#)

Type: Windows Installer Package

From: C:\Users\ADMIN\Downloads\jenkins.msi

Run

Cancel

Always ask before opening this file



While files from the Internet can be useful, this file type can potentially harm your computer. Only run software from publishers you trust.
[What's the risk?](#)

today (2)

 jenkins	28-03-2025 11:11 AM	Windows Installer ...	1,00,424 KB
 jdk-21_windows-x64_bin	28-03-2025 09:51 AM	Application	1,68,256 KB

A long time ago (1)

 PBIDesktopSetup	15-03-2024 11:15 AM	Application	4,44,066 KB
---	---------------------	-------------	-------------

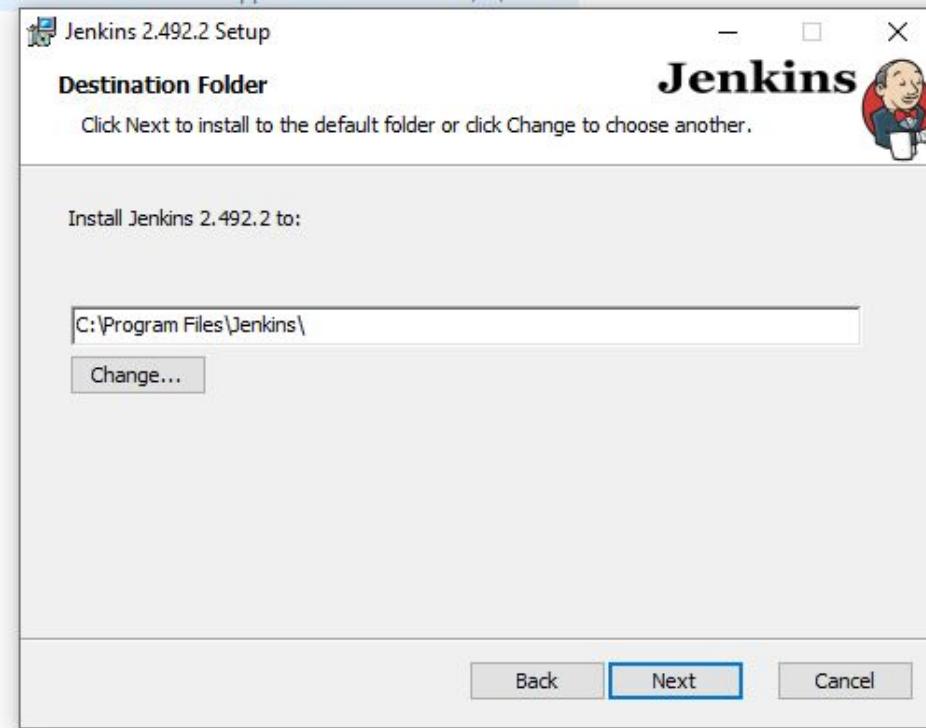


Today (2)

 jenkins	28-03-2025 11:11 AM	Windows Installer ...	1,00,424 KB
 jdk-21_windows-x64_bin	28-03-2025 09:51 AM	Application	1,68,256 KB

› A long time ago (1)

 PBIDesktopSetup	15-03-2024 11:15 AM	Application	4,44,066 KB
--	---------------------	-------------	-------------

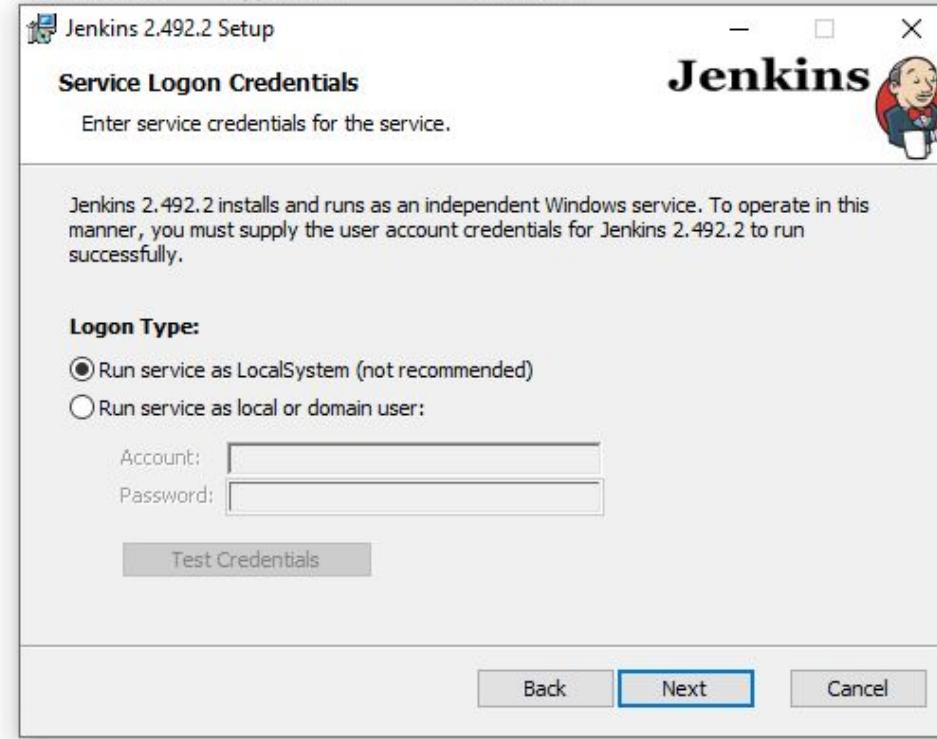


▼ Today (2)

 jenkins	28-03-2025 11:11 AM	Windows Installer ...	1,00,424 KB
 jdk-21_windows-x64_bin	28-03-2025 09:51 AM	Application	1,68,256 KB

▼ A long time ago (1)

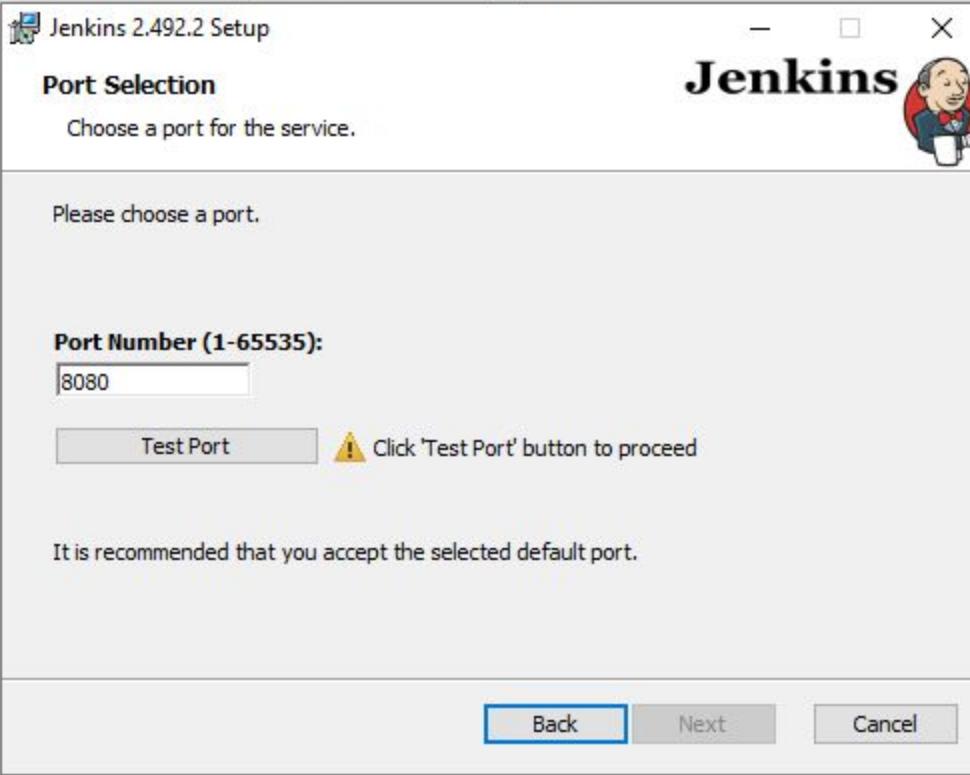
 PBIDesktopSetup	15-03-2024 11:15 AM	Application	4,44,066 KB
---	---------------------	-------------	-------------



15-03-2024 11:15 AM

Application

4,44,066 KB



28-03-2025 09:51 AM Application

1,68,256 KB

15-03-2024 11:15 AM Application 4,44,066 KB



Jenkins 2.492.2 Setup



Port Selection

Choose a port for the service.

Please choose a port.

Port Number (1-65535):

Test Port



It is recommended that you accept the selected default port.

Back

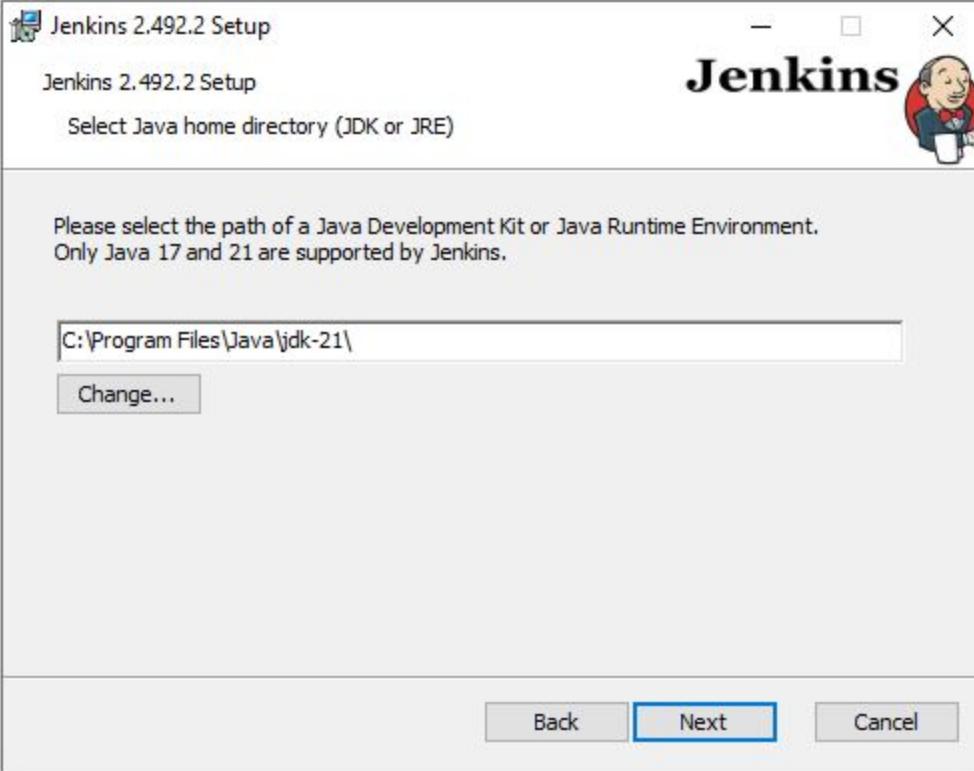
Next

Cancel

15-03-2024 11:15 AM

Application

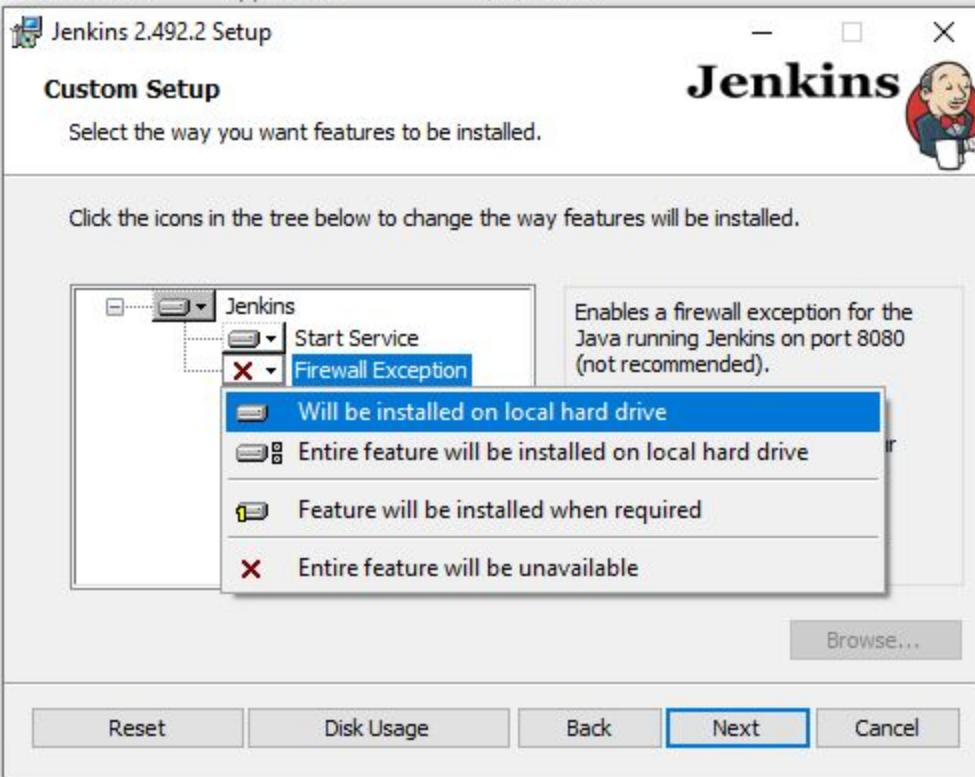
4,44,066 KB



15-03-2024 11:15 AM

Application

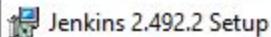
4,44,066 KB



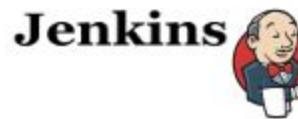
15-03-2024 11:15 AM

Application

4,44,066 KB



Ready to install Jenkins 2.492.2



Click Install to begin the installation. Click Back to review or change any of your installation settings. Click Cancel to exit the wizard.

Back



Cancel

1-03-2024 11:15 AM

Application

4,44,0bb KB

Jenkins 2.492.2 Setup



Completed the Jenkins 2.492.2 Setup
Wizard

Click the Finish button to exit the Setup Wizard.



Back

Finish

Cancel

After installation,
type **localhost:8080**
in browser.



Getting Started

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

C:\ProgramData\Jenkins\.jenkins\secrets\initialAdminPassword

Please copy the password from either location and paste it below.

Administrator password

Continue

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

C:\ProgramData\Jenkins\.jenkins\secrets\initialAdminPassword

Please copy the password from either location and paste it below.

Administrator password

Copy this and search in C drive



- Quick access
- Desktop
- Downloads
- Documents
- Pictures
- Music
- Videos
- OneDrive
- This PC
- Network

Working on it...

A screenshot of a Windows File Explorer window. The title bar says "Search Results in Win-10 (C:)". The left sidebar shows icons for Quick access, Desktop, Downloads, Documents, Pictures, Music, Videos, OneDrive, This PC (which is selected), and Network. The main area displays three files from the path "C:\ProgramData\Jenkins\jenkins\secrets":

initialAdminPassword	C:\ProgramData\Jenkins\jenkins\secrets	Type: File	Date modified: 28-03-2025 11:15 AM Size: 34 bytes
jenkins.model.Jenkins.crumbSalt	C:\ProgramData\Jenkins\jenkins\secrets	Type: CRUMBSALT File	Date modified: 28-03-2025 11:15 AM Size: 32 bytes
master.key	C:\ProgramData\Jenkins\jenkins\secrets	Type: KEY File	Date modified: 28-03-2025 11:15 AM Size: 256 bytes

Search Results in Win-10 (C:)			
			C:\ProgramD
	initialAdminPassword C:\ProgramData\Jenkins\jenkins\secrets	Type: File	Date modified: 28-03-2025 11:15 AM Size: 34 bytes
	jenkins.model.Jenkins.crumbSalt C:\ProgramData\Jenkins\jenkins\secrets	Type: CRUMBSALT File	Date modified: 28-03-2025 11:15 AM Size: 32 bytes
 initialAdminPassword - Notepad			
<hr/> <p>File Edit Format View Help</p> <p>27167228974841c79d5c9b7465347804</p>			

Copy this password and paste it in administrator password

Unlock Jenkins

To ensure Jenkins is securely set up by the administrator, a password has been written to the log ([not sure where to find it?](#)) and this file on the server:

C:\ProgramData\Jenkins\.jenkins\secrets\initialAdminPassword

Please copy the password from either location and paste it below.

Administrator password

.....

Continue

Customize Jenkins

Plugins extend Jenkins with additional features to support many different needs.

Install suggested plugins

Install plugins the Jenkins community finds most useful.

Select plugins to install

Select and install plugins most suitable for your needs.

Select this



Getting Started

Folders	OWASP Markup Formatter	Build Timeout	Credentials Binding	** Ionicons API
Timestamper	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	

Getting Started

				** Ionicons API Folders OWASP Markup Formatter ** ASM API ** JSON Path API ** Structs ** Pipeline: Step API ** Token Macro Build Timeout ** bouncycastle API ** Credentials ** Plain Credentials ** Variant ** SSH Credentials Credentials Binding ** SCM API ** Pipeline: API ** commons-lang3 v3.x Jenkins Timestamper ** Caffeine API ** Script Security ** JavaBeans Activation Framework (JAF) API
✓ Timestamper	⌚ 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	

Create First Admin User

Username

Shruti

Password

Confirm password

Full name

shruti

E-mail address

shrutirathna@gmail.com



Instance Configuration

Jenkins URL:

http://localhost:8080/

The Jenkins URL is used to provide the root URL for absolute links to various Jenkins resources. That means this value is required for proper operation of many Jenkins features including email notifications, PR status updates, and the BUILD_URL environment variable provided to build steps.

The proposed default value shown is **not saved yet** and is generated from the current request, if possible. The best practice is to set this value to the URL that users are expected to use. This will avoid confusion when sharing or viewing links.

Getting Started

Jenkins is ready!

Your Jenkins setup is complete.

[Start using Jenkins](#)



[+ New Item](#)[Build History](#)[Manage Jenkins](#)[My Views](#)[Build Queue](#)

No builds in the queue.

[Build Executor Status](#)

0/2

Manage Jenkins

 Search settings

Building on the built-in node can be a security issue. You should set up distributed builds. See [the documentation](#).

[Set up agent](#)[Set up cloud](#)[Dismiss](#)

System Configuration



System

Configure global settings and paths.



Tools

Configure tools, their locations and automatic installers.



Plugins

Add, remove, disable or enable plugins that can extend the functionality of Jenkins.



Appearance

Configure the look and feel of Jenkins



Nodes

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.



Clouds

Add, remove, and configure cloud instances to provision agents on-demand.

Security



Security

Secure Jenkins; define who is allowed



Credentials

Configure credentials



Credential Providers

Configure the credential providers



Plugins

 Updates

 Available plugins

 Installed plugins

 Advanced settings

 Download progress

 openjdk

 Install



Install Name ↗

Released



Eclipse Temurin installer 1.7

Provides an installer for the JDK tool that downloads the Eclipse Temurin™ build based upon OpenJDK from the Adoptium Working Group.

1 mo 0 days ago



openJDK-native-plugin 1.8

1 yr 4 mo ago





Plugins

Updates

Available plugins

Installed plugins

Advanced settings

Download progress

Search: openjdk /

Install	Name ↓	Released
<input type="checkbox"/>	Eclipse Temurin installer 1.7 Provides an installer for the JDK tool that downloads the Eclipse Temurin™ build based upon OpenJDK from the Adoptium Working Group.	1 mo 0 days ago
<input checked="" type="checkbox"/>	openJDK-native-plugin 1.8	1 yr 4 mo ago



Plugins

eclipse

/

Install

Updates

Available plugins

Installed plugins

Advanced settings

Install Name ↓

Released

 Jersey 2 API 2.45-154.v4ded3dc34f81

2 mo 4 days ago

Library plugins (for use by other plugins)

This plugin provides the JAX-RS 2.1 and Jersey 2 APIs for other plugins.

 Eclipse Temurin installer 1.7

1 mo 0 days ago

Provides an installer for the JDK tool that downloads the Eclipse Temurin™ build based upon OpenJDK from the Adoptium Working Group.

 Buckminster 1.1.1

Build Tools

This Plugin integrates Eclipse Buckminster as a builder.

Warning: This plugin version may not be safe to use. Please review the following security notices:

Dashboard >

 New Item Build History Manage Jenkins My Views

Build Queue

▼

No builds in the queue.

Build Executor Status

0/2 ▼

Click on New Item

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

Project1

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 steps like archiving artifacts and sending email notifications.



Pipeline

Orchestrates long-running activities that can span multiple build agents. Suitable for building pipelines (former 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 folder creates a separate namespace, so you can have multiple things of the same name as long as they are in folders.

Select pipeline



OK



Configure

General

Enabled



General

Triggers

Pipeline

Advanced

Description

[Plain text](#) [Preview](#)

- Discard old builds
- Do not allow concurrent builds
- Do not allow the pipeline to resume if the controller restarts
- GitHub project
- Pipeline speed/durability override
- Preserve stashes from completed builds

Configure

 General

 Triggers

 Pipeline

 Advanced

Plain text [Preview](#)

Discard old builds [?](#)

Strategy

Log Rotation

Days to keep builds

if not empty, build records are only kept up to this number of days

Max # of builds to keep

if not empty, only up to this number of build records are kept

2

Advanced ▾

Configure

Advanced ▾



Do not allow concurrent builds

Do not allow the pipeline to resume if the controller restarts

GitHub project

Project url ?

`https://github.com/ShrutiJr/CI_CD/`

Advanced ▾

Pipeline speed/durability override ?

Preserve stashes from completed builds ?

This project is parameterized ?

Throttle builds ?

Configure

Pipeline

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

Definition

Pipeline script

Script 

1

try sample Pipeline... 

Select Hello
world template

Use Groovy Sandbox 

Pipeline Syntax

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
```

Hello World

Use Groovy Sandbox ?

Pipeline Syntax

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('Git checkout') {  
6             steps {  
7                 ...  
8             }  
9         }  
10    }  
11}  
12}
```

Hello World

To import project from github, we need to write a code here. To get that we will click on **Pipeline Syntax**

Use Groovy Sandbox

[Pipeline Syntax](#)

 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, 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 this 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 null.)

Steps

Sample Step

archiveArtifacts: Archive the artifacts

archiveArtifacts 

Files to archive 

Advanced 

Generate Pipeline Script



ShrutiJr / CI_CD

Type to search[Issues](#) [Pull requests](#) [Actions](#) [Projects](#) [Wiki](#) [Security](#) [Insights](#) [Settings](#)

You only have a single verified email address. We recommend verifying at least one more email address to ensure you can recover your account if you lose access to your primary email.

CI_CD

Public

Pin

Unwatch 1

Fork 0

main

1 Branch

0 Tags

Go to file

t

Add file

Code

ShrutiJr Delete README.md

backend

hihello

frontend

hihello

Jenkinsfile

hihello

LICENSE

hihello

README

MIT license

Local

Codespaces

Clone

[HTTPS](#) [SSH](#) [GitHub CLI](#)https://github.com/ShrutiJr/CI_CD.git

Clone using the web URL.

Open with GitHub Desktop

Download ZIP



Copy this URL

Add a README

About

No description, webs

MIT license

Activity

0 stars

1 watching

0 forks

Releases

No releases published

[Create a new release](#)

Packages

No packages published

[Publish your first package](#)

 Online Documentation

 Examples Reference

 IntelliJ IDEA GDSL

git: Git



git 

Repository URL 

`https://github.com/ShrutiJr/CI_CD.git`

Branch 

main

Credentials 

- none -



+ Add

Include in polling? 

Include in changelog? 

Credentials ?

- none -

+ Add

Include in polling? ?

Include in changelog? ?

Generate Pipeline Script

```
git branch: 'main', url: 'https://github.com/ShrutiJr/CI_CD.git'
```



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

Configure

General

Triggers

Pipeline

Advanced

Definition

Pipeline script

Script ?

```
1 pipeline {  
2     agent any  
3  
4     stages {  
5         stage('git checkout') {  
6             steps {  
7                 git branch: 'main', url: 'https://github.com/ShrutiJr/CI_CD.git'  
8             }  
9         }  
10    }  
11}  
12
```

Use Groovy Sandbox ?

[Pipeline Syntax](#)

Configure

 General

 Triggers

 Pipeline

 Advanced

Definition

Pipeline script

Script

```
1 ▼ pipeline {  
2     agent any  
3  
4     stages {  
5         stage('git checkout') {  
6             steps {  
7                 git branch: 'main', url: 'https://github.com/ShrutiJr/CI_CD.git'  
8             }  
9         }  
10    }  
11 }  
12 }
```

Use Groovy Sandbox 

Pipeline Syntax

Save

Apply



Status

Changes

Build Now

Configure

Delete Pipeline

GitHub

Stages

Rename

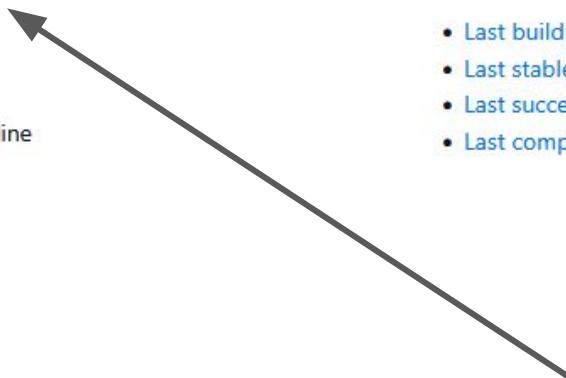
Pipeline Syntax



project1

Permalinks

- Last build (#1), 6 min 33 sec ago
- Last stable build (#1), 6 min 33 sec ago
- Last successful build (#1), 6 min 33 sec ago
- Last completed build (#1), 6 min 33 sec ago



Click on build now

Builds

...



Filter



</> Changes

▷ Build Now

⚙ Configure

trash Delete Pipeline

Github

stack Stages

pencil Rename

question Pipeline Syntax

Permalinks

- Last build (#1), 6 min 33 sec ago
- Last stable build (#1), 6 min 33 sec ago
- Last successful build (#1), 6 min 33 sec ago
- Last completed build (#1), 6 min 33 sec ago

Builds

...

Filter /

Today

#1 10:30 AM

A blue arrow points to the build entry '#1 10:30 AM' in the 'Builds' list.

 Status Changes Console Output Edit Build Information Delete build '#1' Timings Git Build Data Pipeline Overview Pipeline Console Restart from Stage Replay Pipeline Steps Workspaces

#1 (Apr 1, 2025, 10:30:45 AM)



Add description

Started by user [shruti](#)

This run spent:

- 16 ms waiting;
- 7.4 sec build duration;
- 7.4 sec total from scheduled to completion.

**Revision:** 243bd7738fa62bae7a8257b7d4228ed1af454f2e**Repository:** https://github.com/ShrutiJr/CI_CD.git

- refs/remotes/origin/main



</> No changes.



Status

Changes

Console Output

Edit Build Information

Delete build '#1'

Timings

Git Build Data

Pipeline Overview

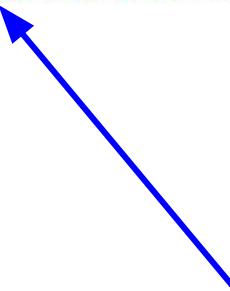
Pipeline Console

Restart from Stage

Replay

Workspaces for project1 #1

- C:\ProgramData\Jenkins\.jenkins\workspace\project1 on built-in





1



shruti

↑ Up

🔍 Status

📋 Console Output

📁 Workspace

Workspace

/ →

📁 .git

📁 backend

📁 frontend

📄 Jenkinsfile Apr 1, 2025, 10:30:49 AM 2.01 KiB ⚡

📄 LICENSE Apr 1, 2025, 10:30:49 AM 1.07 KiB ⚡

⬇️ (all files in zip)

What is SonarQube Scanner?

- It's a **command-line tool** or **plugin** that integrates with your build system (like Maven, Gradle, Jenkins, etc.)
- It scans your project code and uploads the results to a **SonarQube server**.
- It supports many languages: Java, JavaScript, Python, C/C++, PHP, etc.

Why Do You Need It?

- 1. Improve Code Quality**
 - It highlights code issues like duplicate code, long functions, unused variables, etc.
- 2. Detect Bugs Early**
 - It can catch potential runtime errors before your app even runs.
- 3. Track Technical Debt**
 - It helps you understand how much effort it will take to fix code issues.
- 4. Ensure Code Standards(Ex: naming conventions, Inconsistent indentation)**
 - It enforces consistent coding rules across your team or organization.
- 5. Security Checks(Hardcoded credentials detected – use environment variables instead)**
 - Detects common security vulnerabilities (e.g., SQL injection, hardcoded passwords).

Sonarqube scanner installation in windows

<https://www.sonarsource.com/products/sonarqube/>

It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back! [Refresh Firefox...](#)

Upcoming webinar! [Maintain excellence in code health with AI Code Assurance - Register today!](#)

[Solutions](#) [Products](#) [Resources](#) [Company](#) 

[Deploy](#) [What's new](#) [Why upgrade](#) [Docs](#) [Download](#) [Pricing](#) [Request trial](#)

CODE QUALITY AND SECURITY, UNDER YOUR CONTROL

Keep AI generated code clean

Unlock the power of AI coding assistants without the risk of bad, insecure code. SonarQube Server is your Clean Code solution that deploys anywhere, on-prem, or in your cloud environment.

[Request a demo](#) [What is SonarQube Server ⓘ](#)

Hi 🧑 welcome to Sonar! Any questions can help here.

By using chat, you understand all chats may be retained and used as described in our [privacy](#).



SonarQube Server 2025 Release 2 | March 2025

Community Build

Free and open source
for productivity & code
quality

[Download for free](#)

Release 25.3.0.104237

- Static code analysis for 20 languages and frameworks: Java, C#,

Developer Edition

Essential capabilities for
small teams &
businesses

[Download](#)

Community Build, plus:

- Additional languages: C, C++, Obj-C, Dart/Flutter, Swift, ABAP, T-SQL, PL/SQL, RPG and VB6

Enterprise Edition

Designed to meet
Enterprise-level
requirements

[Download](#)

Developer Edition, plus:

- Additional languages: Apex, COBOL, JCL, PL/I, RPG and VB6

Data Center Edition

For high availability,
scalability, &
performance

Hi welcome to Sonar! Any questions? We can help here.

Enterpr

By using chat, you understand all chats may be retained and used as described in our [privacy policy](#).

- Autoscaling in a Kubernetes cluster



Subscribe to SonarQube updates via email

By subscribing, we will notify you about upcoming updates, new releases, and more.

Sign up and download

By submitting this form, you agree to the storing and processing of your personal data as described in the [Privacy Policy](#) and [Cookie Policy](#). You can withdraw your consent by unsubscribing at any time. This site is protected by reCAPTCHA and the Google [Privacy Policy](#) and [Terms of Service](#) apply.

Download only



It looks like you haven't started Firefox in a while. Do you want to clean it up for a fresh, like-new experience? And by the way, welcome back!

[Refresh Firefox...](#)



SONARQUBE COMMUNITY BUILD

Thank you

Your download will start in a few seconds. If not, click the download link below.

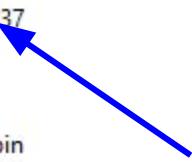
[Download Community Build](#)

Welcome!

Would you like to
additional features in
Developer or Enterpr

Running chat you unde

	Name	Date modified	Type	Size
▼ Today (5)				
	sonarqube-25.3.0.104237	01-04-2025 10:45 AM	WinRAR ZIP archive	8,09,557 KB
	CI_CD-main	01-04-2025 10:27 AM	WinRAR ZIP archive	412 KB
	jenkins	01-04-2025 10:20 AM	Windows Installer ...	1,00,424 KB
	jdk-21_windows-x64_bin	01-04-2025 10:18 AM	Application	1,68,256 KB
	Git-2.49.0-64-bit	01-04-2025 10:17 AM	Application	68,640 KB



Search...[Homepage](#)[Try out SonarQube](#)[Requirements](#)[Setup and upgrade](#)[Overview](#)[Install the server](#)[Configure and operate a server](#)[Install a plugin](#)[Install the server as a cluster](#)[Configure and operate a cluster](#)[Deploy on Kubernetes](#)[Upgrade the server](#)[Release upgrade notes](#)[Troubleshooting](#)[LTA to LTA release upgrade notes](#)[Analyzing source code](#)[DevOps platform integration](#)

Overview

Try out SonarQube

To try out the SonarQube platform, follow the [Try out SonarQube](#) guide.

Install a production instance

To install a production instance, read the [requirements](#), and then follow the [installation guide](#).



After the installation

After your server is up and running, you'll need to install one or more [Sonar scanners](#) on the machines where the analysis will be performed.

Upgrade your production instance

To upgrade your production instance, read the [upgrade guide](#) and the [revision-specific upgrade notes](#).

Was this page helpful?  

Search...[Homepage](#)[Try out SonarQube](#)

Requirements ^

[Prerequisites and overview](#)[Hardware recommendations](#)

Setup and upgrade ^

Analyzing source code ^

DevOps platform integration ^

User guide ^

Project administration ^

Instance administration ^

Extension Guide ^

[Sonar Home ↗](#)[SonarQube Server ↗](#)[Community ↗](#)[Clean Code ↗](#)

SonarQube is able to analyze any kind of Java source files regardless of the version of Java they comply with.

We recommend using the *critical patch update* (CPU) releases.

Java	Server	Scanners
Oracle JRE	✓	✓
	17	17
OpenJDK	✗	✓
	11	11
OpenJDK	✓	✓
	17	17
OpenJDK	✗	✓
	11	11

Database

Database	
PostgreSQL ↗	✓

15

cmd Command Prompt

```
Microsoft Windows [Version 10.0.19045.5608]
(c) Microsoft Corporation. All rights reserved.
```

```
C:\Users\ADMIN>java --version
java 21.0.6 2025-01-21 LTS
Java(TM) SE Runtime Environment (build 21.0.6+8-LTS-188)
Java HotSpot(TM) 64-Bit Server VM (build 21.0.6+8-LTS-188, mixed mode, sharing)
```

```
C:\Users\ADMIN>
```

Quick access

Desktop

Downloads

Documents

Pictures

Music

Videos

OneDrive

This PC

Network

Name

Date modified

Type

Size

sonarqube-25.3.0.104237

04-03-2025 11:38 AM

File folder

**Create folder called sonarqube->
extract sonarqube zip file**

File Home Share View

← → ↑ This PC > Win-10 (C:) > Sonarqube > sonarqube-25.3.0.104237 > bin



Search bin

Name	Date modified	Type	Size
linux-x86-64	04-03-2025 11:32 AM	File folder	
macosx-universal-64	04-03-2025 11:32 AM	File folder	
windows-x86-64	04-03-2025 11:32 AM	File folder	
winsw-license	04-03-2025 11:32 AM	File folder	
elasticsearch	31-01-2025 04:06 PM	File	1 KB

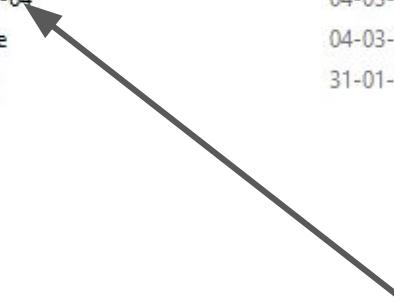
linux-x86-64

macosx-universal-64

windows-x86-64

winsw-license

elasticsearch



Quick access

Desktop

Downloads

Documents

Pictures

Music

Videos

OneDrive

This PC

Network

File Home Share View

← → ⌂ ⌃ This PC > Win-10 (C:) > Sonarqube > sonarqube-25.3.0.104237 > bin > windows-x86-64 ⌄ ⌅ Search windows-x86-64

Quick access

Desktop

Downloads

Documents

Pictures

Music

Videos

OneDrive

This PC

Network

Name	Date modified	Type	Size
lib	04-03-2025 11:32 AM	File folder	
SonarService	04-03-2025 11:32 AM	Windows Batch File	2 KB
StartSonar	04-03-2025 11:32 AM	Windows Batch File	3 KB

Copy the path

```
C:\Users\ADMIN>java --version  
java 21.0.6 2025-01-21 LTS  
Java(TM) SE Runtime Environment (build 21.0.6+8-LTS-188)  
Java HotSpot(TM) 64-Bit Server VM (build 21.0.6+8-LTS-188, mixed mode, sharing)  
  
C:\Users\ADMIN>cd C:\Sonarqube\sonarqube-25.3.0.104237\bin\windows-x86-64  
  
C:\Sonarqube\sonarqube-25.3.0.104237\bin\windows-x86-64>
```

```
C:\Sonarqube\sonarqube-25.3.0.104237\bin\windows-x86-64>dir
 Volume in drive C is Win-10
 Volume Serial Number is 8825-859E

 Directory of C:\Sonarqube\sonarqube-25.3.0.104237\bin\windows-x86-64

04-03-2025  11:32 AM    <DIR>      .
04-03-2025  11:32 AM    <DIR>      ..
04-03-2025  11:32 AM    <DIR>      lib
04-03-2025  11:32 AM                1,421 SonarService.bat
04-03-2025  11:32 AM                2,875 StartSonar.bat
                           2 File(s)      4,296 bytes
                           3 Dir(s)  13,065,261,056 bytes free

C:\Sonarqube\sonarqube-25.3.0.104237\bin\windows-x86-64>
```

```
directory of C:\Sonarqube\sonarqube-25.3.0.104237\bin\windows-x86-64

--03-2025 11:32 AM <DIR> .
--03-2025 11:32 AM <DIR> ..
--03-2025 11:32 AM <DIR> lib
--03-2025 11:32 AM 1,421 SonarService.bat
--03-2025 11:32 AM 2,875 StartSonar.bat
  2 File(s)      4,296 bytes
  3 Dir(s)  13,065,261,056 bytes free
```

\Sonarqube\sonarqube-25.3.0.104237\bin\windows-x86-64>StartSonar.bat
Starting SonarQube...

```
25.04.01 10:53:43 INFO app[] [o.s.a.AppFileSystem] Cleaning or creating temp directory C:\Sonarqube\sonarqube-25.3.0.104237\temp
25.04.01 10:53:43 INFO app[] [o.s.a.es.EsSettings] Elasticsearch listening on [HTTP: 127.0.0.1:9001, TCP: 127.0.0.1:{}]

25.04.01 10:53:43 INFO app[] [o.s.a.ProcessLauncherImpl] Launch process[ELASTICSEARCH] from [C:\Sonarqube\sonarqube-25.3.0.104237\elasticsearch]: C:\Program Files\Java\jdk-21\bin\java -Xms4m -Xmx64m -XX:+UseSerialGC -Dcli.name=server -Dcli.script=./bin/elasticsearch -Dcli.libs=lib/tools/server-cli -Des.path.home=C:\Sonarqube\sonarqube-25.3.0.104237\elasticsearch -Des.path.conf=C:\Sonarqube\sonarqube-25.3.0.104237\temp\conf\es -Des.distribution.type=tar -cp C:\Sonarqube\sonarqube-25.3.0.104237\elasticsearch\lib\*;C:\Sonarqube\sonarqube-25.3.0.104237\elasticsearch\lib\cli-launcher\* org.elasticsearch.launcher.CliToolLauncher
25.04.01 10:53:43 INFO app[] [o.s.a.SchedulerImpl] Waiting for Elasticsearch to be up and running
standard Commons Logging discovery in action with spring-jcl: please remove commons-logging.jar from classpath in order to avoid potential conflicts
01, 2025 10:53:46 AM sun.util.locale.provider.LocaleProviderAdapter <clinit>
WARNING: COMPAT locale provider will be removed in a future release
```

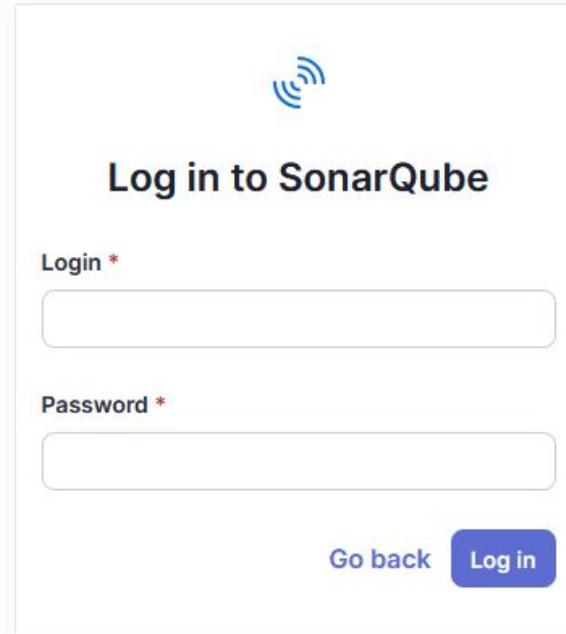
localhost:9000 **in browser**



Login: admin

Password: admin

\$hrutiJR1234



The image shows the SonarQube login interface. At the top center is the Sonar logo. Below it is a blue square containing a white signal icon. The text "Log in to SonarQube" is centered above two input fields. The first field is labeled "Login *". The second field is labeled "Password *". At the bottom left is a "Go back" link, and at the bottom right is a blue "Log in" button.

Log in to SonarQube

Login *

Password *

Go back **Log in**

admin

Update your password



This account should not use the default password.

Enter a new password

All fields marked with * are required

Old Password *



Password *



Confirm Password *

Update

New password

There's a new version of SonarQube Server available. Upgrade to SonarQube Server and get access to enterprise features. [Learn More](#)

X



Projects Issues Rules Quality Profiles Quality Gates Administration More [More](#)



⚠️ Embedded database should be used for evaluation purposes only. It doesn't support scaling, upgrading to a new SonarQube Server version, or migration to another database engine. [Learn more](#)

How do you want to create your project?

Do you want to benefit from all of SonarQube Community Build's features (like repository import and Pull Request decoration)?

Create your project from your favorite DevOps platform.

First, you need to set up a DevOps platform configuration.

Import from Azure DevOps

Setup

Import from Bitbucket Cloud

Setup

Import from Bitbucket Server

Setup

Import from GitHub

Setup

Import from GitLab

Setup

Are you just testing or have an advanced use-case? Create a local project.

[Create a local project](#)

⚠️ Embedded database should be used for evaluation purposes only. It doesn't support scaling, upgrading to a new SonarQube Server version, or migration to another database engine. [Learn more](#)

Administration

Configuration  Security  Projects  System Marketplace

 If your team prefers working with Vulnerabilities, Bugs, and Code Smells, change it in the [Mode section](#) of General Settings

General Settings

Edit global settings for this SonarQube instance.

 Find in Settings

Analysis Scope
Authentication
DevOps Platform Integrations
Email Notification

Duplications

Cross project duplication detection

DEPRECATED - By default, SonarQube detects duplications at project level. This means that a block duplicated on two different projects won't be reported. Setting



 Embedded database should be used for evaluation purposes only. It doesn't support scaling, upgrading to a new SonarQube Server version, or migration to another database engine. [Learn more](#) 

Administration

Configuration  Security  Projects  System Marketplace

Users

Create and administer individual users.

 Search by login or name... Filter by All users  ?

Security->click on Users

Name	SCM Accounts	Last connection	Last SonarQube for IDE connection 	Groups	Tokens	Actions
A Administrator admin		< 1 hour ago	Never	2 	0 	

1 of 1 shown

 Create User

ed database should be used for evaluation purposes.

stration

tion ▾

Security ▾

Projects ▾

ers

e and administer individual users.

Search by login or name...

Filter by

All user

ie

SCM Accounts

Groups

Administrator
admin

2 :

Create User

All fields marked with * are required

Login *

Sonarqube



Password *

●●●●●●●●●●●●



Confirm Password *

●●●●●●●●●●●●



Create

Cancel

⚠️ Embedded database should be used for evaluation purposes

migration to another database engine

Administration

Configuration Security Projects S...

Users

Create and administer individual users.

Search by login or name...

Filter by All users

Name

SCM Accounts

Groups

Tokens

A

Administrator
admin

Create User

Name *

shruti



Email

shrutirathna@gmail.com



SCM Accounts

Add

Login and email are automatically considered as SCM accounts

Create

Cancel



Part of SonarQube Community Build!
SonarQube for IDE, a free IDE plugin that helps you
and fix issues earlier in your workflow. Connect

ⓘ There's a new version of SonarQube Server available. Upgrade to SonarQube Server and get access to enterprise features.

[Learn More](#)



Projects Issues Rules Quality Profiles Quality Gates Administration More ▾



⚠ Embedded database should be used for evaluation purposes only. It doesn't support scaling, upgrading to a new SonarQube Server version, or migration to another database engine. [Learn more](#) ↗

Administration

Configuration ▾ Security ▾ Projects ▾ System Marketplace

Create your

Create and administer individual users.

 Search by login or name...

Name	SCM Accounts	Last connection	Last SonarQube for IDE connection ?	Groups	Tokens	Actions
A Administrator admin		< 1 hour ago	Never	2 : 	0 : 	
S shruti shruti shrutirathna@gmail.com		Never	Never	1 : 	0 : 	

2 of 2 shown

There's a new version of SonarQube Server available. Upgrade to SonarQube Server and get access to enterprise features. [Learn More](#)



Projects Issues Rules Quality Profiles Quality Gates Administration More



⚠️ Embedded database should be used for evaluation purposes only. It doesn't support scaling, upgrading to a new SonarQube Server version, or migration to another database engine. [Learn more](#)

Administration

Configuration Security Projects System Marketplace

Users

Create User

Create and administer individual users.

Search by login or name... Filter by All users ?

Name	SCM Accounts	Last connection	Last SonarQube for IDE connection ?	Groups	Tokens	Actions
A Administrator admin		< 1 hour ago	Never	2 :	0 :	⋮
S shruti shruti shrutirathna@gmail.com		Never	Never	1 :	0 :	⋮

2 of 2 shown

Click on token

[Learn more](#)

Tokens of shruti

Generate Tokens

Name Expires in

 Generate

Name	Type	Project	Last use	Created	Expiration
------	------	---------	----------	---------	------------

Tokens of *shruti*

Generate Tokens

Name

Expires in

Generate

Name	Type	Project	Last use	Created	Expiration
------	------	---------	----------	---------	------------

Close

Tokens of *shruti*

Copy this token and save it in the notepad

Generate Tokens

Name

Expires in

30 days

Generate

 New token "sonar" has been created. Make sure you copy it now, you won't be able to see it again!

squ_16a740953bc09d34ac1df0d5af92072f0c04e54



Close



FIK

initialAdminPassword

squ_16a740953bc09d34ac1df0d5af



File Edit View



squ_16a740953bc09d34ac1df0d5af92072f0c04e54

notepad



Dashboard >

[+ New Item](#)[Build History](#)[Manage Jenkins](#)[My Views](#)

Build Queue

No builds in the queue.

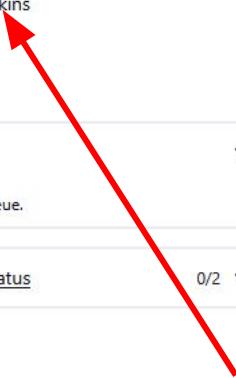
Build Executor Status

0/2

[All](#) [+](#)Name ↴
project1Last Success
34 sec #2Last Failure
N/ALast Duration
1.8 sec

Icon: S M L

...

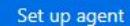


 New Item Build History Manage Jenkins My Views

Manage Jenkins

 Search settings

Building on the built-in node can be a security issue. You should set up distributed builds. See [the documentation](#).

 Set up agent Set up cloud Dismiss

System Configuration



System

Configure global settings and paths.



Tools

Configure tools, their locations and automatic installers.



Plugins

Add, remove, disable or enable plugins that can extend the functionality of Jenkins.



Nodes

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.



Clouds

Add, remove, and configure cloud instances to provision agents on-demand.



Appearance

Configure the look and feel of Jenkins

Security



Security



Credentials



Credential Providers



Plugins

Search available plugins



Install



Updates

Available plugins



Installed plugins

Advanced settings

Download progress

Install Name ↓

Released

 JavaMail API 1.6.2-11

1 mo 11 days ago

Library plugins (for use by other plugins)

This plugin provides the JavaMail API for other plugins.

 Command Agent Launcher 118.v72741845c17a_

2 mo 12 days ago

Agent Management

Allows agents to be launched using a specified command.

 Oracle Java SE Development Kit Installer 83.v417146707a_3d

2 mo 13 days ago

Allows the Oracle Java SE Development Kit (JDK) to be installed via download from Oracle's website.

 Pipeline: REST API 2.37

1 mo 20 days ago

User Interface

Provides a REST API to access pipeline and pipeline run data.

 Pipeline: Stage View 2.37

1 mo 20 days ago

User Interface



Q 1 shruti

Dashboard > Manage Jenkins > Plugins

Plugins

Search: sonar / Install ▼ ⟳

Install	Name ↓	Released
<input checked="" type="checkbox"/>	SonarQube Scanner 2.18 <small>External Site/Tool Integrations Build Reports</small> This plugin allows an easy integration of SonarQube , the open source platform for Continuous Inspection of code quality.	2 mo 6 days ago
<input type="checkbox"/>	Sonar Quality Gates 352.vdcdb_d7994fb_6 <small>Library plugins (for use by other plugins) analysis Other Post-Build Actions</small> Fails the build whenever the Quality Gates criteria in the Sonar 5.6+ analysis aren't met (the project Quality Gates status is different than "Passed")	1 mo 11 days ago
<input type="checkbox"/>	Quality Gates 2.5 Fails the build whenever the Quality Gates criteria in the Sonar analysis aren't met (the project Quality Gates status is different than "Passed") <small>Warning: This plugin version may not be safe to use. Please review the following security notices:</small> <ul style="list-style-type: none">• Credentials transmitted in plain text	8 yr 10 mo ago

Plugins

 Updates

 Available plugins

 Installed plugins

 Advanced settings

 Download progress

Metrics	
Pipeline Graph View	 Success
Git	 Success
EDDSA API	 Success
Trilead API	 Success
SSH Build Agents	 Success
Matrix Authorization Strategy	 Success
PAM Authentication	 Success
LDAP	 Success
Email Extension	 Success
Mailer	 Success
Theme Manager	 Success
Dark Theme	 Success
Loading plugin extensions	 Success
SonarQube Scanner	 Success
Loading plugin extensions	 Running

Click on restart
jenkins

→ [Go back to the top page](#)

(you can start using the installed plugins right away)



→ Restart Jenkins when installation is complete and no jobs are running



Nodes

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.



Clouds

Add, remove, and configure cloud instances to provision agents on-demand.



Appearance

Configure the look and feel of Jenkins

Security



Security

Secure Jenkins; define who is allowed to access/use the system.



Credentials

[Configure credentials](#)



Credential Providers

Configure the credential providers and types



Users

Create/delete/modify users that can log in to this Jenkins.

Status Information



System Information

Displays various environmental information to assist trouble-shooting.



System Log

System log captures output from `java.util.logging` output related to Jenkins.



Load Statistics

Check your resource utilization and see if you need more computers for your builds.





Credentials

T P Store ↓

Domain

ID

Name

Stores scoped to Jenkins

P Store ↓

Domains



System

(global)

Icon: S M L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L



System

(global)



S



M



L

</

System

[+ Add domain](#)

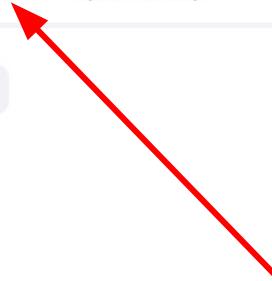
Domain ↓

Description

[Global credentials \(unrestricted\)](#)

Credentials that should be available irrespective of domain specification to requirements matching.

Icon: S M L





Global credentials (unrestricted)

+ Add Credentials

Credentials that should be available irrespective of domain specification to requirements matching.

ID	Name	Kind	Description
This credential domain is empty. How about adding some credentials?			

Icon: S M L





New credentials

Kind

Username with password



Scope

Global (Jenkins, nodes, items, all child items, etc)



Username

 Treat username as secret

Password

ID

Create



New credentials

Kind

Username with password

Username with password

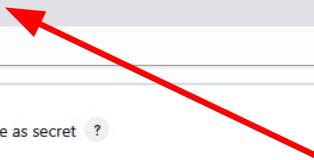
GitHub App

SSH Username with private key

Secret file

Secret text

Certificate

 Treat username as secret ?

Password ?

ID ?

Create24°C
Sunny

Search























































































































































































































































































































New credentials

Select secret text

Kind

Secret text



Scope ?

Global (Jenkins, nodes, items, all child items, etc)

Secret

Paste the token password which is generated through sonarqubescanner

ID ?

Description ?

Fill ID and description with sonar and create

Create



New credentials

Kind

Secret text

Scope

Global (Jenkins, nodes, items, all child items, etc)

Secret

.....

ID

sonar

Description

sonar

Create





Global credentials (unrestricted)

[+ Add Credential](#)

Credentials that should be available irrespective of domain specification to requirements matching.

ID	Name	Kind	Description
	sonar	Secret text	sonar

Icon: S M L



+ New Item

Build History

Manage Jenkins

My Views

Build Queue

No builds in the queue.

Build Executor Status

0/2

Manage Jenkins

Search ...

Building on the built-in node can be a security issue. You should set up distributed builds. See [the documentation](#).

[Set up agent](#)[Set](#)

System Configuration

**System**

Configure global settings and paths.

**Tools**

Configure tools, their locations and automatic installers.

**Plugins**

Add, remove, or update plugins that change the functionality of Jenkins.

**Nodes**

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.

**Clouds**

Add, remove, and configure cloud instances to provision agents on-demand.

**Appearance**

Configure the look and feel of Jenkins.

Security

SonarQube servers

If checked, job administrators will be able to inject a SonarQube server configuration as environment variables in the build.

Environment variables

SonarQube installations

List of SonarQube installations

Add SonarQube



Metrics

Access keys ?

Add new access key

Pipeline Speed / Durability

Default Speed / Durability Level ?

None: use pipeline default (Maximum survivability/durability but slowest)

Save

Apply

List of SonarQube installations

Name

SonarQube-server



Server URL

Default is <http://localhost:9000>

<http://localhost:9000>

Server authentication token

SonarQube authentication token. Mandatory when anonymous access is disabled.

sonar



- none -

sonar

Advanced ▾

Add SonarQube

Save

Apply

Environment variables

SonarQube installations

List of SonarQube installations

Name



SonarQube-server

Server URL

Default is http://localhost:9000

http://localhost:9000

Server authentication token

SonarQube authentication token. Mandatory when anonymous access is disabled.

sonar

+ Add ▾

Advanced ▾

Select drop down menu->sonar(which was generated in sonarqube scanner and set in the credentials (jenkins))

SMTP server

Default user e-mail suffix [?](#)

Advanced 

 Edited

Test configuration by sending test e-mail

SCM Polling

Max # of concurrent polling [?](#)

10

Apply and then
save

Save

Apply



[New item](#)

[Build History](#)

[Manage Jenkins](#)

[My Views](#)

Manage Jenkins

Building on the built-in node can be a security issue. You should set up distributed builds. See [the documentation](#).

[Set up agent](#)

[Set up cloud](#)

[Dismiss](#)

System Configuration



System

Configure global settings and paths.



Tools

Configure tools, their locations and automatic installers.



Plugins

Add, remove, disable or enable plugins that can extend the functionality of Jenkins.



Nodes

Add, remove, control and monitor the various nodes that Jenkins runs jobs on.



Clouds

Add, remove, and configure cloud instances to provision agents on-demand.



Appearance

Configure the look and feel of Jenkins

Security



Security

Secure Jenkins; define who is allowed to access/use the system.



Credentials

Configure credentials



Credential Providers

Configure the credential providers and types

SonarScanner for MSBuild installations

[Add SonarScanner for MSBuild](#)

SonarQube Scanner installations

[Add SonarQube Scanner](#)



Ant installations

[Add Ant](#)

Maven installations

[Add Maven](#)

[Save](#)

[Apply](#)

SonarQube Scanner installations

Add SonarQube Scanner

≡ SonarQube Scanner

Name

Sonar-scanner



Install automatically ?

≡ Install from Maven Central

Version

SonarQube Scanner 7.1.0.4889

Add Installer ▾

Add SonarQube Scanner

Save

Apply



Add JDK

≡ **JDK**

Name

jdk21

JAVA_HOME

C:\Program Files\Java\jdk-21



Install automatically ?

Add JDK

Git installations

≡ **Git**

Name

Save

Apply

[+ New Item](#)[Build History](#)[Manage Jenkins](#)[My Views](#)

All

+

S	W	Name ↓	Last Success	Last Failure	Last Durat
		project1	23 min #2	N/A	1.8 sec

Icon: S M L

Build Queue

No builds in the queue.

Build Executor Status

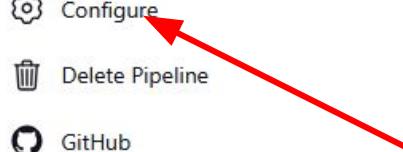
0/2

 [Status](#) [Changes](#) [Build Now](#) [Configure](#) [Delete Pipeline](#) [GitHub](#) [Stages](#) [Rename](#) [Pipeline Syntax](#)

project1

Permalinks

- [Last build \(#2\), 23 min ago](#)
- [Last stable build \(#2\), 23 min ago](#)
- [Last successful build \(#2\), 23 min ago](#)
- [Last completed build \(#2\), 23 min ago](#)



Builds

[...](#) [Filter](#)

Today

 [#2 9:41 AM](#)

```
— pipeline {
    agent any
    tools{
        jdk 'jdk21'
    }
    environment {
        SCANNER_HOME=tool 'sonar-scanner'
    }
}
```

Configure

 General Triggers Pipeline AdvancedScript 

```
1< pipeline {
2    agent any
3<   tools{
4      jdk 'jdk21'
5    }
6    environment
7<   {
8      SCANNER_HOME=tool 'Sonar-scanner'
9    }
10<  stages {
11    stage('Git checkout') {
12      steps {
13        git branch: 'main', url: 'https://github.com/ShrutiJr/CI_CD.git'
14      }
15    }
}
```

 Use Groovy Sandbox [Pipeline Syntax](#)

Advanced

[Save](#)[Apply](#)

Configure

General

Triggers

Pipeline

Advanced

Script ?

```
16 v      stage("Sonarqube Analysis "){  
17 v          steps{  
18 v              bat """  
19 v                  ${SCANNER_HOME}/bin/Sonar-scanner \  
20 v                  -Dsonar.projectName=CI_CD \  
21 v                  -Dsonar.host.url=http://localhost:9000 \  
22 v                  -Dsonar.login=squ_16a740953bc09d34ac1df0d5af92072f0c04e54\  
23 v                  -Dsonar.java.binaries=. \  
24 v                  -Dsonar.projectKey=CI_CD    """  
25 v          }  
26 v      }  
27 v  }  
28 v }  
29 v }  
30 }
```

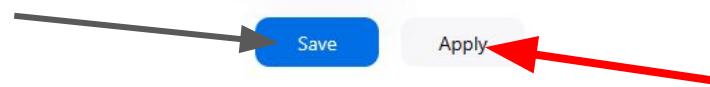
Use Groovy Sandbox ?

Pipeline Syntax

Advanced

Save

Apply



 Status Changes Build Now Configure Delete Pipeline GitHub Stages Rename Pipeline Syntax project1

Permalinks

- [Last build \(#8\), 5 min 34 sec ago](#)
- [Last stable build \(#8\), 5 min 34 sec ago](#)
- [Last successful build \(#8\), 5 min 34 sec ago](#)
- [Last failed build \(#7\), 7 min 19 sec ago](#)
- [Last unsuccessful build \(#7\), 7 min 19 sec ago](#)
- [Last completed build \(#8\), 5 min 34 sec ago](#)

Builds

...

 Filter

/

Today

 #8 10:30 AM #7 10:28 AM



Status

Changes

Console Output

Edit Build Information

Delete build '#8'

Timings

Git Build Data

Pipeline Overview

Pipeline Console

Restart from Stage

Replay

Pipeline Steps

Workspaces

Previous Build

Console Output

Download

Copy

```
Started by user shruti
[Pipeline] Start of Pipeline
[Pipeline] node
Running on Jenkins in C:\ProgramData\Jenkins\.jenkins\workspace\project1
[Pipeline] {
[Pipeline] tool
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Declarative: Tool Install)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] }
[Pipeline] // stage
[Pipeline] withEnv
[Pipeline] {
[Pipeline] stage
[Pipeline] { (Git checkout)
[Pipeline] tool
[Pipeline] envVarsForTool
[Pipeline] withEnv
[Pipeline] {
```

```
10:30:53.703 INFO  SCM Revision ID: 2430077d01a020ac7a023f0704220c01a143412c
10:30:53.914 INFO  Analysis report generated in 146ms, dir size=257.4 kB
10:30:53.950 INFO  Analysis report compressed in 35ms, zip size=47.0 kB
10:30:54.307 INFO  Analysis report uploaded in 356ms
10:30:54.309 INFO  ANALYSIS SUCCESSFUL, you can find the results at: http://localhost:9000/dashboard?id=CI\_CD
10:30:54.309 INFO  Note that you will be able to access the updated dashboard once the server has processed the submitted analysis report
10:30:54.309 INFO  More about the report processing at http://localhost:9000/api/ce/task?id=bccf3b21-e917-4971-a145-7d78cc9513bd
10:30:54.423 INFO  Analysis total time: 11.814 s
10:30:54.424 INFO  SonarScanner Engine completed successfully
10:30:55.061 INFO  EXECUTION SUCCESS
10:30:55.062 INFO  Total time: 19.974s
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // stage
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // withEnv
[Pipeline] }
[Pipeline] // node
[Pipeline] End of Pipeline
Finished: SUCCESS
```

There's a new version of SonarQube Server available. Upgrade to SonarQube Server and get access to enterprise features. [Learn More](#)



Projects Issues Rules Quality Profiles Quality Gates Administration More ▾



⚠️ Embedded database should be used for evaluation purposes only. It doesn't support scaling, upgrading to a new SonarQube Server version, or migration to another database engine. [Learn more](#)

ⓘ The way in which security, reliability, and maintainability counts and ratings are calculated has changed. [Learn more in SonarQube documentation](#)

My Favorites All

Create Project ▾

Search for projects... Perspective Overall Status ▾ Sort by Name ↴ 1 project(s) 🏠

Filters

Quality Gate

- Passed 1
- Failed 0

Security

- A ≥ 0 info issues 1
- B ≥ 1 low issue 0
- C ≥ 1 medium issue 0
- D ≥ 1 high issue 0

☆ CI_CD PUBLIC Passed

Last analysis: 2 minutes ago • 225 Lines of Code • JavaScript, CSS, ...

A 0 Security c 3 Reliability A 30 Maintainability E 0.0% Hotspots Reviewed O 0.0% Coverage ● 0.0% Duplications

1 of 1 shown

⚠️ Embedded database should be used for evaluation purposes only. It doesn't support scaling, upgrading to a new SonarQube Server version, or migration to another database engine. [Learn more](#)

☆ CI_CD / main ?

Overview Issues Security Hotspots Measures Code Activity

Project Settings ▾

Project Information

main

225 Lines of Code • Version not provided •

Set as homepage



Quality Gate

Last analysis 2 minutes ago

Passed



The last analysis has warnings. [See details](#)

New Code

Overall Code

Security

0 Open issues

Reliability

3 Open issues

Maintainability

30 Open issues

A

C

A

 Embedded database should be used for evaluation purposes only. It doesn't support scaling, upgrading to a new SonarQube Server version, or migration to another database engine. [Learn more](#) 

☆ CI_CD /  main   

Overview Issues Security Hotspots Measures Code Activity Project Settings ▾ Project Information

New Code

Overall Code

Security

0 Open issues

A

Reliability

3 Open issues

C

Maintainability

30 Open issues

A

Accepted issues

0

B

Valid issues that were not fixed

Coverage

0.0%



On 54 lines to cover.

Duplications

0.0%

B

On 286 lines.

Security Hotspots

3

E

OWASP

OWASP Check (like OWASP Dependency-Check)

- **Purpose:** To identify **known vulnerabilities in third-party libraries** used in your application.
- **Focus:** Matches your dependencies against databases like the National Vulnerability Database (NVD).
- **Why it's needed:**
 - Modern applications often rely heavily on open-source libraries.
 - A vulnerability in one of those libraries (e.g., Log4j) can expose your app.
 - It helps ensure your app is secure **before deployment**.
- **Example tool:** OWASP Dependency-Check, OWASP ZAP (for web app security testing).

Plugins

 owas Install Updates Available plugins Installed plugins Advanced settings

Install Name ↴

Released

 OWASP Dependency-Check 5.6.0[Security](#) [DevOps](#) [Build Tools](#) [Build Reports](#)

3 mo 23 days ago

This plug-in can independently execute a [Dependency-Check](#) analysis and visualize results. Dependency-Check is a utility that identifies project dependencies and checks if there are any known, publicly disclosed, vulnerabilities.

 OWASP Dependency-Track 6.0.1[pipeline](#) [Security](#) [Build Tools](#) [Build Reports](#)

12 days ago

This plug-in publishes Software Bill-of-Materials (SBOM) to Dependency-Track for continuous analysis. [Dependency-Track](#) is an intelligent Software Supply Chain Component Analysis platform that allows organizations to identify and reduce risk from the use of third-party and open source components.

 Official OWASP ZAP 1.1.0

The [Official OWASP ZAP Jenkins Plugin](#) extends the functionality of the [ZAP](#) security tool into a CI Environment.

7 yr 9 mo ago

Warning: This plugin version may not be safe to use. Please review the following security notices:

- [Credentials stored in plain text](#)



Plugins

Download progress

Updates

Available plugins

Installed plugins

Advanced settings

Download progress

Preparation

- Checking internet connectivity
- Checking update center connectivity
- Success

OWASP Dependency-Check



Success

Loading plugin extensions



Success

→ [Go back to the top page](#)

(you can start using the installed plugins right away)

→ Restart Jenkins when installation is complete and no jobs are running

SonarQube Scanner installations

SonarQube Scanner installations ▾

 Edited

Ant installations

Add Ant

Maven installations

Add Maven

Dependency-Check installations

Add Dependency-Check

Save

Apply



Go to Manage Jenkins->Tools

Add Dependency-Check

Dependency-Check

Name

DP

Install automatically ?

Install from github.com

Version

dependency-check 9.0.10

Add Installer ▾

Add Dependency-Check

```
stage('OWASP Dependency Check') {  
    steps {  
        dependencyCheck additionalArguments: '--scan ./', odcInstallation: 'DP'  
        dependencyCheckPublisher pattern: '**/dependency-check-report.xml'  
    }  
}
```

All Images Videos News Short videos Shopping Forums More



Docker

<https://www.docker.com> ::

Docker: Accelerated Container Application Development

Docker provides a suite of development tools, services, trusted content, and automations, used individually or together, to accelerate the delivery of secure ...

Docker Desktop

Docker Build is a powerful tool within Docker Desktop that ...



Get Docker

Get Docker. Docker is an open platform for developing ...



Documentation

Browse by section. Docker Desktop. Manage containers ...



Hub

The perfect home for your team's applications. ... Push images ...



Get Started



D

Sof



D
u
p
a
C
ir

Docs Get support Contact sales



Products ▾

Developers ▾

Pricing

Support

Blog

Company ▾



Sign In

Get started

Develop faster. Run anywhere.

Build with the #1 most-used developer tool

Download Docker Desktop

Learn more about Docker



Sign in

Using Docker for work? We recommend signing in with your work email address.

OR

 Continue with Google

 Continue with GitHub

 Continue with SSO

Any one





Welcome back, Shruti!

Docker products

[Give feedback](#)



Innovate with Docker Desktop

Your command center for innovative local and cloud native container development.

[Go to download](#)

[Launch Docker Desktop](#)



Build with Docker Build Cloud

Accelerate image build times with access to cloud-based builders and shared cache.

[Go to Build Cloud](#) →



Secure with Docker Scout

Address security issues before they hit production through actionable insights across the software supply chain.

[Go to Scout](#) →



[Go to download](#)[Launch Docker Desktop](#)[Go to Build Cloud →](#)[Go to Scout →](#)

Explore with **Docker Hub**

The platform to discover, distribute, store, and serve cloud native components, including container images.

[Go to Hub →](#)

Test with **Testcontainers Cloud**

Scale out your automated testing capabilities through cloud-based ephemeral containers.

[Go to Testcontainers Cloud →](#)

Settings and administration



Configure and manage with
Admin Console



Manage with
Billing

jrshruti
Docker Personal

Repositories

Settings



Default privacy

Notifications

Billing

Usage



Pulls

Storage

Repositories

All repositories within the jrshruti namespace.



Search by repository name

All content

Create a repository

Name	Last Pushed	Contains	Visibility	Scout
jrshruti/todoapp12	14 days ago	IMAGE	Public	Inactive
jrshruti/todoapp9	14 days ago	IMAGE	Public	Inactive
jrshruti/todoapp8	15 days ago	IMAGE	Public	Inactive
jrshruti/todoapp7	15 days ago	IMAGE	Public	Inactive
jrshruti/todoapp4	15 days ago	IMAGE	Public	Inactive
jrshruti/todoapp3	15 days ago	IMAGE	Public	Inactive

jrshruni
Docker Personal

Repositories

Settings



Default privacy

Notifications

Billing

Usage



Pulls

Storage

Repositories / Create

Using 0 of 1 private repositories. [Get more](#)

Create repository

Repository Name *

todoapp13



Short description

A short description to identify your repository. If the repository is public, this description is used to index your content on Docker Hub and in search engines, and is visible to users in search results.

Visibility

Using 0 of 1 private repositories. [Get more](#) Public

Appears in Docker Hub search results

 Private

Only visible to you

Cancel

Create

Pushing images

You can push a new image to this repository using the CLI:

```
docker tag local-image:tagname new-repo:tagname  
docker push new-repo:tagname
```

< >

Make sure to replace `tagname` with your desired image repository tag.

[Explore](#)[My Hub](#)[Search Docker Hub](#)[CtrlK](#)

J

 jrshruti
Docker Personal [Repositories](#) [Settings](#)[Default privacy](#)[Notifications](#) [Billing](#) [Usage](#)[Pulls](#)[Storage](#)[Repositories / todoapp13 / General](#)**jrshruti/todoapp13**

Created less than a minute ago

[Add a description](#) [Add a category](#) [General](#)[Tags](#)[Image Management](#) BETA[Collaborators](#)[Webhooks](#)[Settings](#)**Tags** INCOMPLETE DOCKER SCOUT INACTIVE
[Activate](#)

Pushed images appear here.

This name you have to give in the code as
jrshruti/todoapp13:latest

Using 0 of 1 private repositories. [Get more](#)**Docker commands**

To push a new tag to this repository:

```
docker push jrshruti/todoapp13:tagname
```

buildcloud

Build with

Docker Build Cloud

Accelerate image build times with access to cloud-based builders and shared cache.

Docker Build Cloud executes builds on optimally-dimensioned cloud infrastructure with dedicated per-organization isolation.

Plugins

 docker

71

Updates

Available plugins

Installed plugins

Advanced settings

Name ↓

Enabled

CloudBees Docker Build and Publish plugin 1.4.0

This plugin enables building Dockerfile based projects, as well as publishing of the built images/repos to the docker registry.

[Report an issue with this plugin](#)**Docker** 1.6

This plugin integrates Jenkins with Docker

[Report an issue with this plugin](#)**Docker API** 3.3.4-86.v39b_a_5ede342c

This plugin provides docker-java API for other plugins.

[Report an issue with this plugin](#)**Docker Commons** 439.va_3cb_0a_6a_fb_29

Provides the common shared functionality for various Docker-related plugins.

[Report an issue with this plugin](#)**Docker Compose Build Step Plugin** 1.0

Docker Compose plugin for Jenkins

[Report an issue with this plugin](#)**Docker Pipeline** 572.v950f58993843

Build and use Docker containers from pipelines.

[Report an issue with this plugin](#)**docker-build-step** 2.11

This plugin allows to add various docker commands to your job as build steps.

[Report an issue with this plugin](#)

Warning: The currently installed plugin version may not be safe to use. Please review the following security notices:

- [CSRF vulnerability and missing permission check](#)

☰ Docker



Name

Install automatically [?](#)

☰ Download from docker.com



Docker version [?](#)

Add Installer ▾

Add Docker

Save

Apply

Pipeline Script

Configure

 General Advanced Project Options PipelineScript 

```
44
45
46
47
48
49
50
51
52
53
54
55
56
57
58
59
60
61
62
63
```

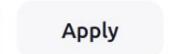
```
        dir('mavensample7') {
            sh "mvn clean install"
        }

    stage("Docker Build & Push"){
        steps{
            script {
                // Change directory to the mavensample5 folder
                dir('mavensample5') {
                    // Build the Docker image
                    sh "docker build -t shrutijr/mavensample5:latest ."

                    // Tag the Docker image
                    sh "docker tag shrutijr/mavensample5:latest shrutijr/mavensample5:latest"
                }
            }
        }
    }
```

Hello World  Use Groovy Sandbox 

Pipeline Syntax

 Save Apply

Declarative Directive Generator

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.)

Declarative Online Documentation

Steps Reference

Global Variables Reference

Online Documentation

Examples Reference

IntelliJ IDEA GDSL

Steps

Sample Step

withDockerRegistry: Sets up Docker registry endpoint

withDockerRegistry ?

Docker registry URL ?

Registry credentials

- none -

+ Add ▾

Docker installation



(?) Examples Reference

(?) IntelliJ IDEA GDSL

withDockerRegistry ?

Docker registry URL ?

Registry credentials

- none -

+ Add ▲



Jenkins

Docker installation
(Default)

Generate Pipeline Script

Click on jenkins

Jenkins Credentials Provider: Jenkins

Username ?

Treat username as secret ?

Docker hub login information

Password ?

ID ?

Description ?

Cancel

Add

Global variables Reference

Online Documentation

Examples Reference

IntelliJ IDEA GDSL

Sample Step

withDockerRegistry: Sets up Docker registry endpoint

Click on generate pipeline script

withDockerRegistry ?

Docker registry URL ?

Registry credentials

jrshruti1205@gmail.com/******** (docker-crede)

+ Add ▾

Docker installation

docker

Select drop down menu

Generate Pipeline Script

```
// This step should not normally be used in your script. Consult the inline help for details.  
withDockerRegistry(credentialsId: '9f685227-f7a5-42ff-a16b-3a6025177958', toolName: 'docker') {  
    // some block  
}
```

```
stage("Docker Build & Push"){
    steps{
        script {
            // Push the Docker image to the registry
            withDockerRegistry(credentialsId: 'Docker6', toolName: 'docker') {
                sh "docker build -t todoapp:latest -f backend/Dockerfile backend"
                sh "docker tag todoapp:latest jrshruti/todoapp7:latest"
                sh "docker push jrshruti/todoapp7:latest"
            }
        }
    }
}
```



jrshruti
Docker Personal



Repositories / todoapp7 / General

Using 0 of 1 private repositories. [Get more](#)

jrshruti/todoapp7

Last pushed 15 days ago

Add a description

Add a category

General

Tags

Image Management BETA

Collaborators

Webhooks

Settings

Tags



DOCKER SCOUT INACTIVE
[Activate](#)

This repository contains 1 tag(s).

Tag	OS	Type	Pulled	Pushed
latest		Image	15 days	15 days

[See all](#)

Docker commands

To push a new tag to this repository:

```
docker push jrshruti/todoapp7:tagname
```



Build with

Docker Build Cloud

Accelerate image build times with access to cloud-based builders and shared cache.

Docker Build Cloud executes builds on optimally-dimensioned cloud infrastructure with dedicated per-organization isolation.



jrshruti
Docker Personal

[Repositories](#) / [todoapp7](#) / [Tags](#) / latest



jrshruti/todoapp7:latest

MANIFEST DIGEST sha256:1e78c4c28d7611e19b6151b25059afc6f4c6415509063aad6987ef61fedd88c0 [Copy](#)

OS/ARCH	COMPRESSED SIZE ⓘ	LAST PUSHED	TYPE	MANIFEST DIGEST
linux/amd64	41 MB	15 days by jrshruti	Image	sha256:1e78c4c2...

Image Layers

Vulnerabilities

Image Layers ⓘ

1 ADD file ... in /

2.68 MB

2 CMD ["/bin/sh"]

0 B

3 ENV NODE_VERSION=14.18.2

0 B

4 /bin/sh -c addgroup -g 1000

34.8 MB

5 ENV YARN_VERSION=1.22.15

0 B

Command

```
ADD file:8f5bc5ce64ef781adadca88e4004e17af
```





Files



main



Q Go to file



v folder backend

> folder build

Dockerfile

index.js

package-lock.json

package.json

> folder frontend

Jenkinsfile

LICENSE

CI_CD / backend / Dockerfile



ShrutiJr Update Dockerfile

13ae704 · 9 minutes ago



Code

Blame

7 lines (7 loc) · 120 Bytes

Code 55% faster with GitHub Copilot

Raw



```
1 FROM node:14-alpine3.12
2 WORKDIR /app
3 COPY package*.json .
4 RUN npm install
5 COPY . .
6 EXPOSE 4000
7 CMD ["node", "index.js"]
```

Before deploying do these changes in Dockerfile(in github)

Trivy

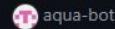
Trivy Scan

- **Purpose:** To scan **Docker images, file systems, and repositories** for:
 - OS-level vulnerabilities (e.g., in Alpine, Ubuntu base images)
 - Application dependencies (npm, pip, etc.)
 - Misconfigurations (Dockerfiles, Kubernetes manifests, etc.)
 - Secrets (like hardcoded tokens or passwords)

Trivy installation

1. Go to the [**Trivy GitHub Releases page**](#).
2. Download the latest .zip for Windows:
 - o Example: trivy_0.51.1_windows-64bit.zip
3. Extract it somewhere (e.g., C:\Trivy).
4. Add the folder to your **System PATH**:
 - o Go to Control Panel > System > Advanced System Settings > Environment Variables.
 - o Edit Path and add: C:\Trivy
5. Open a new **PowerShell or CMD**, and test:

last week



v0.61.1

7d3b4ff

Compare

v0.61.1 Latest

Changelog

- [7d3b4ff](#) release: v0.61.1 [release/v0.61] (#8704)
- [80d120f](#) fix(k8s): skip passed misconfigurations for the summary report [backport: release/v0.61] (#8748)
- [9d6290b](#) fix(k8s): correct compare artifact versions [backport: release/v0.61] (#8699)
- [3799ebb](#) test: use aquasecurity repository for test images [backport: release/v0.61] (#8698)

▼ Assets 75

bom.json	697 KB	last week
trivy_0.61.1_checksums.txt	2.17 KB	last week
trivy_0.61.1_checksums.txt.pem	3.15 KB	last week
trivy_0.61.1_checksums.txt.sig	96 Bytes	last week
trivy_0.61.1_FreeBSD-32bit.tar.gz	38.7 MB	last week
trivy_0.61.1_FreeBSD-32bit.tar.gz.pem	3.15 KB	last week
trivy_0.61.1_FreeBSD-32bit.tar.gz.sig	96 Bytes	last week
trivy_0.61.1_FreeBSD-64bit.tar.gz	42.4 MB	last week
trivy_0.61.1_FreeBSD-64bit.tar.gz.pem	3.15 KB	last week
trivy_0.61.1_FreeBSD-64bit.tar.gz.sig	96 Bytes	last week
Source code (zip)		last week
Source code (tar.gz)		last week

Download this file

Show all 75 assets

```
- stage('Trivy Docker Scan'){
    steps{
        bat "trivy image jrshruti/todoapp7:latest"
    }
}
```

```
stage("Docker deploy"){
    steps{
        script {
            // Push the Docker image to the registry
            withDockerRegistry(credentialsId: 'Docker6', toolName: 'docker') {
                bat "docker run -d --name todoapp7 -p 4000:4000 jrshruti/todoapp7:latest"
            }
        }
    }
}
```



Getting Started

Todo Application

Add New Task

Enter task name

Add

reading books

Delete

reading story books

Delete

```
shruti@shruti-Inspiron-13-5310:~$ sudo lsof -i :4000
```

```
[sudo] password for shruti:
```

COMMAND	PID	USER	FD	TYPE	DEVICE	SIZE/OFF	NODE	NAME
docker-pr	12897	root	4u	IPv4	256729	0t0	TCP	*:4000 (LISTEN)
docker-pr	12923	root	4u	IPv6	266155	0t0	TCP	*:4000 (LISTEN)

```
shruti@shruti-Inspiron-13-5310:~$ docker ps -a | grep 4000
```

c87df4b9bd27	jrshruti/todoapp7:latest	"docker-entrypoint.s..."	9 minutes ago	Up 9 minutes	0.0.0.0:4000->4000/tcp, :::4000->4000/tcp	t odoapp7
--------------	--------------------------	--------------------------	---------------	--------------	---	--------------

```
shruti@shruti-Inspiron-13-5310:~$ docker stop todoapp7
```

```
todoapp7
```

```
shruti@shruti-Inspiron-13-5310:~$ docker rm todoapp7
```

```
todoapp7
```

```
shruti@shruti-Inspiron-13-5310:~$ █
```

```
docker ps -a
```

```
docker logs todoapp7
```