Managing Jenkins

Last updated by | shakibesaib | Aug 15, 2023 at 2:49 PM GMT+6

Most standard administrative tasks can be performed from the screens in the **Manage Jenkins** section of the dashboard.

The top of the Manage Jenkins screen may contain "Monitors" that alert you when a new version of the Jenkins software or a security update is available. Each monitor includes a description of the issue it is reporting and links to additional information about the issue.

System Configuration group

Screens for configuring resources for your Jenkins instance.

System Configuration

⚙️ **System**
Configure global settings and paths.

🔨 **Tools**
Configure tools, their locations and automatic installers.

🧩 **45 Plugins**
Add, remove, disable or enable plugins that can extend the functionality of Jenkins.

☁️ **Nodes and Clouds**
Add, remove, control and monitor the various nodes that Jenkins runs jobs on.

📄 **Managed files**
e.g. settings.xml for maven, central managed scripts, custom files, ...

System
Configure global settings and paths for the Jenkins instance

Dashboard > Manage Jenkins > System >

System

Home directory ?
By default, Jenkins stores all of its data in this directory on the file system

| /var/lib/jenkins ⧉

System Message
This message will be displayed at the top of the Jenkins main page. This can be useful for posting notifications to your users

[Plain text] **Preview**

# of executors

2

Labels

Usage ?

Use this node as much as possible ⌄

Quiet period ?

5

SCM checkout retry count

0

☐ Restrict project naming

Jenkins Location

Jenkins URL ?

```
http://localhost:8080/
```

⚠ **Please set a valid host name, instead of localhost**

System Admin e-mail address ?

```
shakibesaib@gmail.com
```

Serve resource files from another domain

Resource Root URL ?

```

```

Without a resource root URL, resources will be served from the Jenkins URL with Content-Security-Policy set.

Global properties

☐ Disable deferred wipeout on this node ?

☐ Environment variables

☐ Tool Locations

Pipeline Speed / Durability

Default Speed / Durability Level ?

```
None: use pipeline default (MAX_SURVIVABILITY)                              ⌄
```

Writes data with every step, using atomic writes for integrity. Provides maximum ability to retain running pipeline data and resume in the event of a Jenkins failure.

Usage Statistics

☑ Help make Jenkins better by sending anonymous usage statistics and crash reports to the Jenkins project ?

Folder

Health Metrics

List of default health metrics for Folders

```
Add ⌄
```

Global Build Time Out

☐ Enable Global Time Out

Gradle Enterprise Build Scans

☐ Enable enriched summary   ?

Gradle Enterprise integration

☐ Enable auto-injection

Timestamper

System clock time format   ?

''HH:mm:ss' '

Elapsed time format   ?

''HH:mm:ss.S' '

Git plugin

Global Config user.name Value   ?

shakibesaib@gmail.com

Global Config user.email Value   ?

☐ Create new accounts based on author/committer's email   ?

☐ Use existing account with same email if found   ?

☐ Show the entire commit summary in changes   ?

☐ Hide credential usage in job output   ?

☐ Disable performance enhancements   ?

Extended E-mail Notification

SMTP server

```
smtp.gmail.com
```

SMTP Port

```
465
```

Advanced ⌄   ✎ Edited

Default user e-mail suffix ?

```

```

Advanced ⌄   ✎ Edited

E-mail Notification

SMTP server

```
smtp.gmail.com
```

Default user e-mail suffix ?

```

```

Advanced ⌄   ✎ Edited

☐ Test configuration by sending test e-mail

[**Save**]   [Apply]

REST API   **Jenkins 2.401.3**

Tools
Configure tools, their locations, and automatic installers

Dashboard > Manage Jenkins > Tools

Tools

Maven Configuration

Default settings provider

```
Use default maven settings                                               ⌄
```
?

Default global settings provider

```
Use default maven global settings                                        ⌄
```
?

Git installations

Git	✕

Name

Default

Path to Git executable   ?

git

☐ Install automatically   ?

Add Git ▾

Dashboard ＞ Manage Jenkins ＞ Tools

Maven

Maven installations

List of Maven installations on this system

Add Maven

NodeJS

NodeJS installations ⌄   ✎ Edited

Docker

Docker installations

List of Docker installations on this system

Add Docker

Save   Apply

Plugins
Add, update, remove, disable/enable plugins that extend the functionality of Jenkins.

Dashboard > Manage Jenkins > Plugins

	Updates
	Available plugins
	Installed plugins
	Advanced settings

Plugins

🔍 Search plugin updates

	Name ↓	Released	Installed
☐	**Ant** 497.v94e7d9fffa_b_9 Build Tools Adds Apache Ant support to Jenkins	1 mo 18 days ago	487.vd79d090d4ea_e
☐	**bouncycastle API** 2.29 Library plugins (for use by other plugins) This plugin provides a stable API to Bouncy Castle related tasks.	1 mo 9 days ago	2.28
☐	**Branch API** 2.1122.v09cb_8ea_8a_724 Library plugins (for use by other plugins)	1 mo 18 days ago	2.1109.vdf225489a_16d

Download now and install after restart Update information obtained: 3 hr 41 min ago Check now

Nodes and Clouds
Add, remove, control, and monitor the nodes used for the agents on which build jobs run.

Dashboard > Manage Jenkins > Nodes >

☁ Clouds
⚙ Node Monitoring

Build Queue	⌄
No builds in the queue.	

Build Executor Status	⌄
1 Idle	
2 Idle	

Nodes

+ New Node   ↻

S	Name ↓	Architecture	Clock Difference	Free Disk Space	Free Swap Space	Free Temp Space	Response Time	
🖥	Built-In Node	Linux (amd64)	In sync	403.74 GB	1.84 GB	403.74 GB	0ms	⚙
	last checked	42 min	42 min	42 min	42 min	42 min	42 min	

REST API   Jenkins 2.401.3

Configuration as Code
Configure your Jenkins instance using a human-readable YAML file rather than the UI. This is an optional

feature that appears in this group only when the plugin is installed on your controller.

Dashboard > Manage Jenkins > Managed files

⚙ Manage Jenkins

→ **Config Files**

\+ Add a new Config

Config File Management

You can edit or remove your configuration files

Security group

Screens for configuring security features for your Jenkins instance. See Securing Jenkins for general information about managing Jenkins security.

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.

📝 **In-process Script Approval**
Allows a Jenkins administrator to review proposed scripts (written e.g. in Groovy) which run inside the Jenkins process and so could bypass security restrictions. **1 scripts pending approval.**

Security

Set configuration parameters that secure your Jenkins instance.

Dashboard > Manage Jenkins > Security

Security

Authentication

☐ Disable remember me

Security Realm

| Jenkins' own user database | ⌄ | ? |

☐ Allow users to sign up   ?

Authorization

| Logged-in users can do anything | ⌄ | ? |

☐ Allow anonymous read access   ?

[**Save**]   [Apply]

Manage Credentials

Configure the credentials that provide secure access to third-party sites and applications that interact with Jenkins.

Dashboard > Manage Jenkins > Credentials

Credentials

T	P	Store ↓	Domain	ID	Name
📇	👤	System	(global)	86fc3e93-a491-484f-81a4-424dfaab6238	shakibesaib/******
📇	👤	System	(global)	09e57e56-7ea4-43c4-9012-4e944cc5164a	shakibesaib@gmail.com/******
📇	👤	System	(global)	e4b51587-f143-4091-af4a-47d743ba148d	shakibesaib@gmail.com/******
📇	👤	System	(global)	f2b28634-d9c7-47ac-8059-fd861ed8acd4	f2b28634-d9c7-47ac-8059-fd861ed8acd4

Stores scoped to Jenkins

P	Store ↓	Domains
👤	System	(global)

Credential Providers

Configure credential providers and types

Dashboard > Manage Jenkins > Credential Providers

＋ New Item	
🖧 People	
🗂 Build History	
◎ Project Relationship	
🔏 Check File Fingerprint	
◎ Manage Jenkins	
▢ My Views	

Build Queue ⌄

No builds in the queue.

Build Executor Status ⌄

1 Idle

2 Idle

Credential Providers

Providers

All available ⌄

Types

All available ⌄

Restrictions

Add ▾

[Save]   [Apply]

Users

Manage users defined in the Jenkins user database. This is not used if you use a different security realm such as LDAP or AD.

Dashboard > Manage Jenkins > Jenkins' own user database

Users   ＋ Create User

These users can log into Jenkins. This is a sub set of **this list**, which also contains auto-created users who really just made some commits on some projects and have no direct Jenkins access.

User ID ↓	Name	
⊙ shakibedevops	Shakibe	⚙

Jenkins 2.401.3

Status Information group

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.

🧑 **About Jenkins**
See the version and license information.

System Information
Displays information about the Jenkins environment.

Dashboard > Manage Jenkins > System Information

+ New Item
People
Build History
Project Relationship
Check File Fingerprint
Manage Jenkins
My Views

Build Queue   ⌄

No builds in the queue.

Build Executor Status   ⌄

1 Idle

2 Idle

System Information

| System Properties | Environment Variables | Plugins | Memory Usage | Thread Dumps |

👁 Show values

Name ↓	Value
awt.toolkit	👁 Hidden value, click to show this value
executable-war	👁 Hidden value, click to show this value
file.encoding	👁 Hidden value, click to show this value
file.separator	👁 Hidden value, click to show this value
java.awt.graphicsenv	👁 Hidden value, click to show this value

System Log
Jenkins log that contains all java.util.logging output related to Jenkins.

Dashboard > Manage Jenkins > System Log >

Log Recorders
Log Levels

Log Recorders

+ Add new log recorder   ⑦

Name ↓
All Jenkins Logs

Load Statistics
Displays information about resource utilization on you Jenkins instance.

Dashboard > Manage Jenkins > Load Statistics

+ New Item

& People

& Build History

& Project Relationship

& Check File Fingerprint

& Manage Jenkins

& My Views

Build Queue   ∨

No builds in the queue.

Build Executor Status   ∨

1 Idle

2 Idle

Load statistics: Jenkins

Timespan

Medium   ∨

Load statistics keep track of four key metrics of resource utilization:

Number of online executors
For a computer: if the computer is online then this is the number of executors that the computer has; if the computer is offline then this is zero.
For a label: this is the sum of all executors across all online computers in this label.
For the entire Jenkins: this is the sum of all executors across all online computers in this Jenkins installation.
Other than configuration changes, this value can also change when agents go offline.

Number of busy executors
This line tracks the number of executors (among the executors counted above) that are carrying out builds. The ratio of this to the number of online executors gives you the resource utilization. If all your executors are busy for a prolonged period of time, consider adding more computers to your Jenkins cluster.

Number of available executors
This line tracks the number of executors (among the online executors counted above) that are available to carry out builds. The ratio of this to the total number of executors gives you the resource availability. If none of your executors are available for a prolonged period of time, consider adding more computers to your Jenkins cluster.

Queue length
This is the number of jobs that are in the build queue, waiting for an available executor (of this computer, of this label, or in this Jenkins, respectively). This doesn't include jobs that are in the quiet period, nor does it include jobs that are in the queue because earlier builds are still in progress. If this line ever goes above 0, that means your Jenkins will run more builds by adding more computers.

Note: The number of busy executors and the number of available executors need not necessarily be equal to the number of online executors as executors can be suspended from accepting builds and thus be neither busy nor available.

The graph is an exponential moving average of periodically collected data values. 3 timespans are updated every 10 seconds, 1 minute and 1 hour

About Jenkins
Provides version and license information for your Jenkins instance.

Dashboard > Manage Jenkins > About Jenkins

Jenkins
Version 2.401.3

♡ Get involved

The leading open source automation server which enables developers around the world to reliably build, test, and deploy their software.

Mavenized dependencies   Static resources   License and dependency information for plugins

Dashboard > Manage Jenkins

Troubleshooting

Manage Old Data
Scrub configuration files to remove remnants from old plugins and earlier versions.

Tools and Actions

Reload Configuration from Disk
Discard all the loaded data in memory and reload everything from file system. Useful when you modified config files directly on disk.

Jenkins CLI
Access/manage Jenkins from your shell, or from your script.

Script Console
Executes arbitrary script for administration/trouble-shooting/diagnostics.

Prepare for Shutdown
Stops executing new builds, so that the system can be eventually shut down safely.

For detailed explanation: https://www.jenkins.io/doc/book/managing/