

# Jenkins Configuration, Plugin Installation, and Root Permission Setup

## (Part 2)

### 1. Log in to Jenkins:

- Open Jenkins in your web browser and log in with your username and password.



#### Sign in to Jenkins

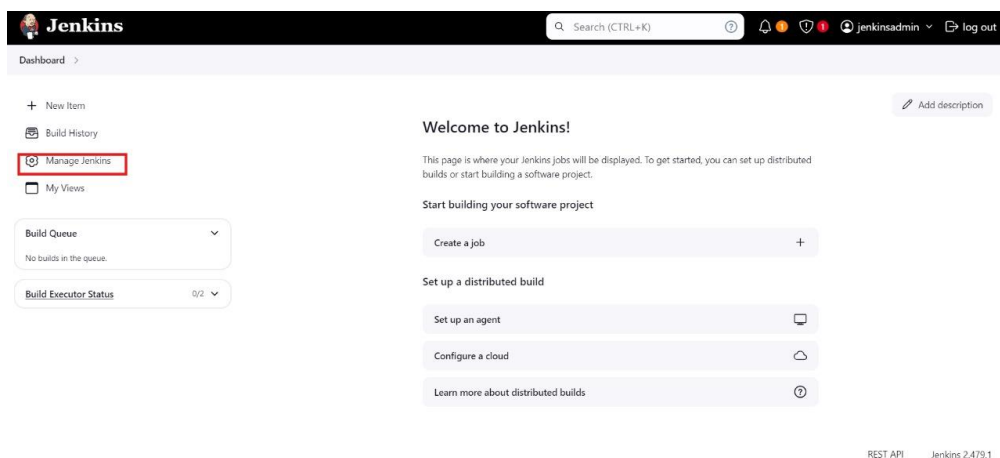
Username

Password

☐ Keep me signed in

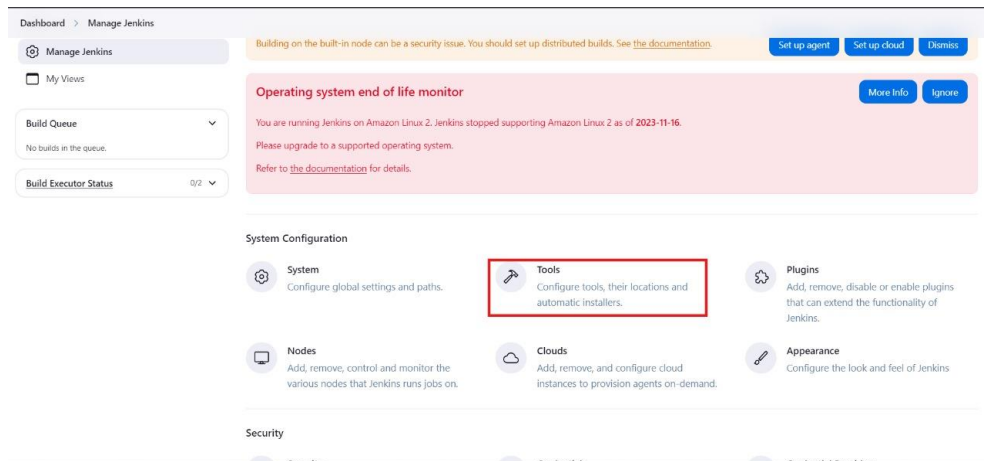
### 2. Access Manage Jenkins:

- On the Jenkins dashboard, click Manage Jenkins.



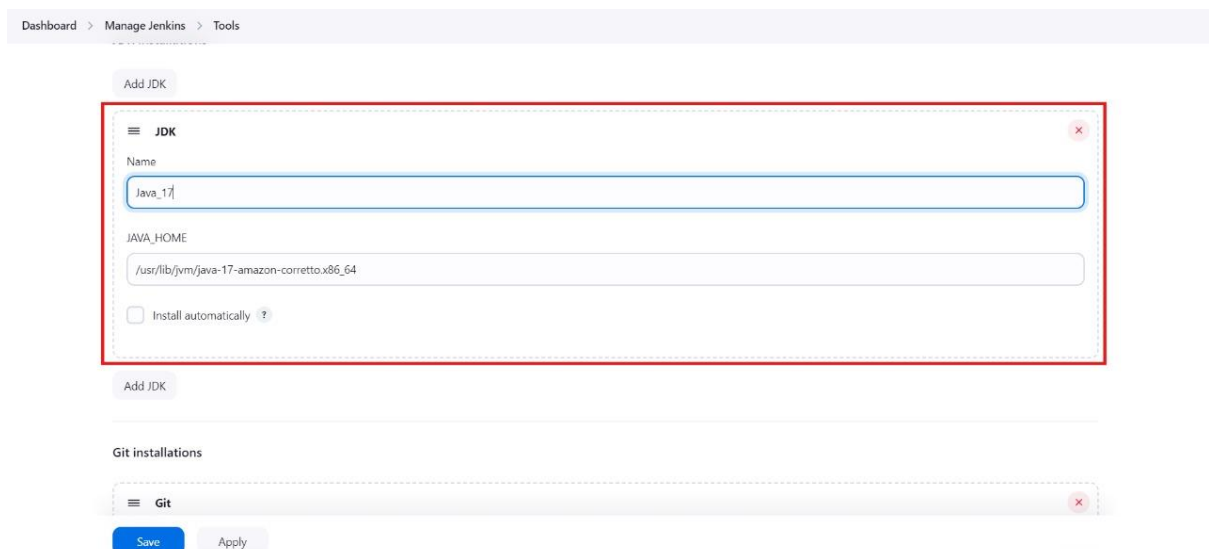
### 3. Configure Java, Git, and Maven:

- Go to Global Tool Configuration under Manage Jenkins.



For Java Configuration:

- Scroll to the JDK section, click Add JDK, and set the Name as Java\_17.
- Open Putty and run:  
which java
- Run this command to get the actual Java path:  
readlink -f /usr/bin/java
- Copy the output path, typically /usr/lib/jvm/java-17-amazon-corretto.x86\_64/bin/java, and set it as JAVA\_HOME in Jenkins.



For Git Configuration:

- Scroll to the Git section.

- Run in Putty:

which git

- Copy the path (usually /usr/bin/git) and set it as the Path to Git executable in Jenkins.

Git installations

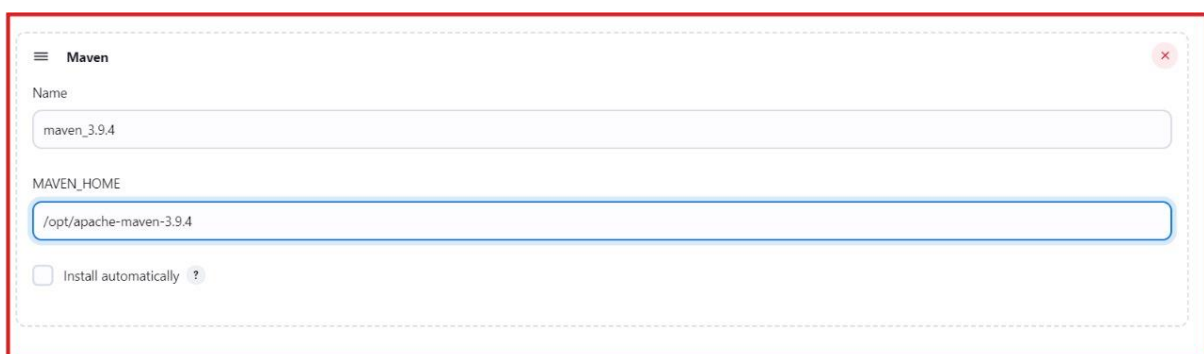


For Maven Configuration:

- Scroll to the Maven section and click Add Maven.

- Set the Name as apache-maven-3.9.4.

- Enter /opt/apache-maven-3.9.4 as the path (adjust if Maven is installed elsewhere).



#### 4. Save the Tool Configurations:

- Click Save to apply these configurations.

#### 5. Install Additional Plugins:

- Go to Manage Plugins under Manage Jenkins.

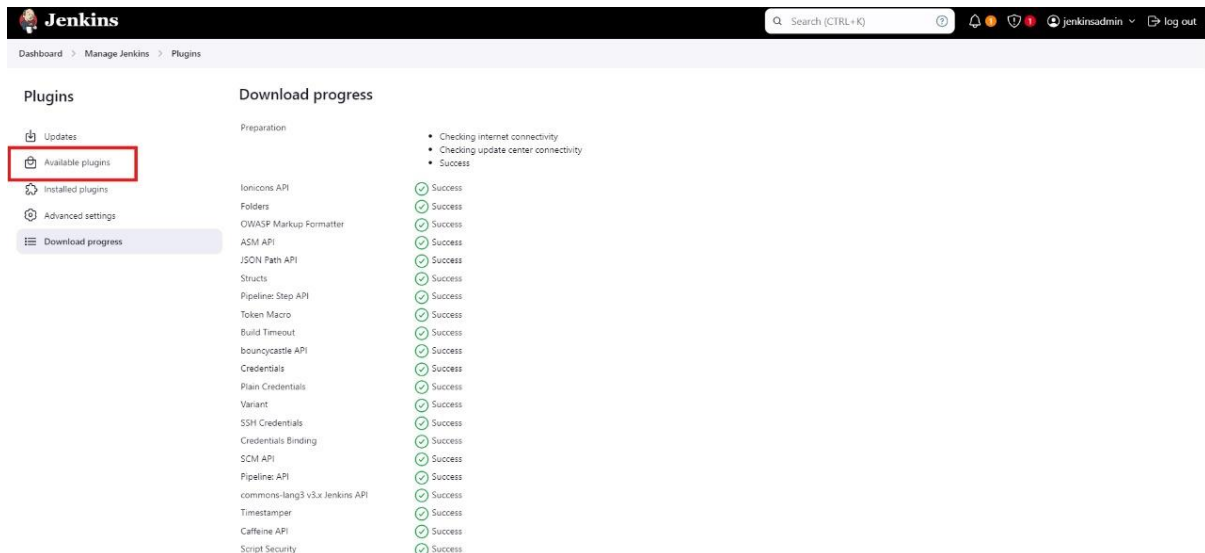
The screenshot shows the Jenkins 'Manage Jenkins' page. The left sidebar has 'Manage Jenkins' selected. The main area features a warning about the operating system end of life for Amazon Linux 2, a 'System Configuration' section with links to System, Tools, Plugins, Nodes, Clouds, and Appearance, and a search bar for settings. The 'Plugins' link is highlighted with a red box.

- In the Available Plugins tab, use the search bar to find the plugins you need.

The screenshot shows the Jenkins 'Available Plugins' page. The left sidebar has 'Available plugins' selected. The main area shows a search bar with 'maven' entered, a list of plugins with checkboxes for installation, and an 'Install' button highlighted with a red box.

Install	Name	Released
<input checked="" type="checkbox"/>	Blue Ocean 1.27.16 External Site/Tool Integrations User Interface BlueOcean Aggregator	1 mo 19 days ago
<input checked="" type="checkbox"/>	Common API for Blue Ocean 1.27.16 External Site/Tool Integrations User Interface This plugin is a part of Blue Ocean UI	1 mo 19 days ago
<input checked="" type="checkbox"/>	Maven Integration 3.24 Build Tools This plugin provides a deep integration between Jenkins and Maven. It adds support for automatic triggers between projects depending on SNAPSHOTS as well as the automated configuration of various Jenkins publishers such as Junit.	13 days ago
<input type="checkbox"/>	Config File Provider 980.v88955a_u_5d6a_d Groovy-related External Site/Tool Integrations Maven Ability to provide configuration files (e.g. settings.xml for maven, XML, groovy, custom files...) loaded through the UI which will be copied to the job workspace.	14 days ago

- Select your desired plugins and click Install without restart or Install after restart.



## 6. Grant Root Permissions to Jenkins:

- Open a Putty session and enter:-  
sudo visudo

```
[root@ip-172-31-47-103 apache-maven-3.9.4]# visudo
```

- In the sudoers file, press i to enter insert mode.
- Locate the line with root ALL=(ALL:ALL) ALL and add this line below it:  
plaintext  
jenkins ALL=(ALL) NOPASSWD:ALL

```

# Next comes the main part: which users can run what software on
# which machines (the sudoers file can be shared between multiple
# systems).
# Syntax:
#
#     user    MACHINE=COMMANDS
#
# The COMMANDS section may have other options added to it.
#
# Allow root to run any commands anywhere
root    ALL=(ALL)        ALL
jenkins ALL=(ALL)NOPASSWD :ALL
# Allows members of the 'sys' group to run networking, software,
# service management apps and more.
# Keys ALL = NETWORKING, SOFTWARE, SERVICES, STORAGE, DELEGATING, PROCESSES, LOC
ATE, DRIVERS

# Allows people in group wheel to run all commands
wheel   ALL=(ALL)        ALL

# Same thing without a password
wheel   ALL=(ALL)        NOPASSWD: ALL

-- INSERT --

```

101,31

90%

- Press Esc, then type :wq! and press Enter to save and exit.