😊 Installing Tools in Jenkins
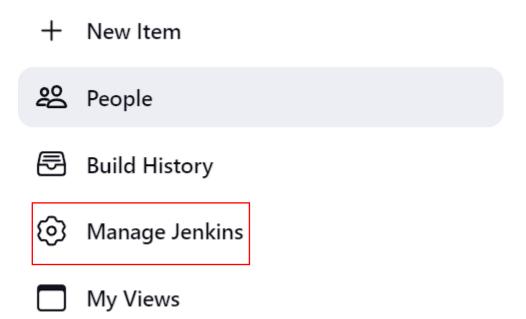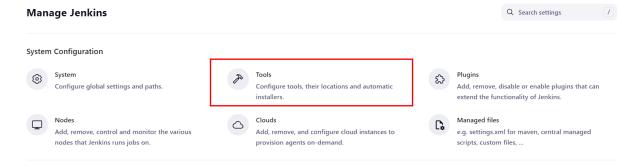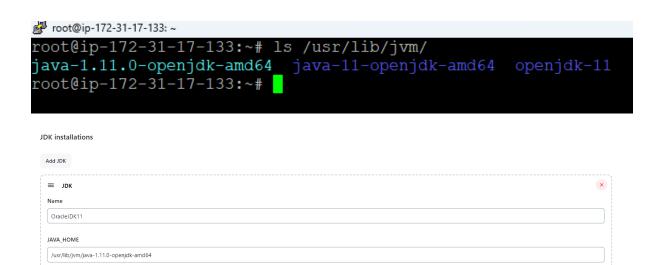
1. So, in the last lab you saw, how you can install Jenkins.
2. In this lab you are going to install some tolls that are required in Jenkins.
3. So, in order to install tools in Jenkins you can click on Manage Jenkins.

+ New Item

👥 People

📥 Build History

⚙️ Manage Jenkins

🗔 My Views

4. There you will see many options but you need to click on tools.

Manage Jenkins

🔍 Search settings

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.

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

5. Now in the tools page you need to click on Add JDK and give name as **OracleJDK11.** Remember to keep the name same because if you will then you are going to face errors.
6. And for the path copy the command below.
   /usr/lib/jvm/java-1.11.0-openjdk-amd64
7. You can also get this path from your instance. All the JDK information is stored here at this path.
   ls /usr/lib/jvm

```
root@ip-172-31-17-133: ~
root@ip-172-31-17-133:~# ls /usr/lib/jvm/
java-1.11.0-openjdk-amd64   java-11-openjdk-amd64   openjdk-11
root@ip-172-31-17-133:~#
```

JDK installations

Add JDK

☰ JDK   ×

Name

OracleJDK11

JAVA_HOME

/usr/lib/jvm/java-1.11.0-openjdk-amd64

☐ Install automatically ?

Add JDK

8. After that you are going to add another JDK which is going to be JDK 8. But this one is not installed on your instance.

9. So, first you need to install JDK 8 then in the similar way you need to give the name and path for it too. Copy the below commands to install it.
   sudo apt update
   apt install openjdk-8-jdk -y


```
root@ip-172-31-17-133: ~
root@ip-172-31-17-133:~# ls /usr/lib/jvm/
java-1.11.0-openjdk-amd64   java-1.8.0-openjdk-amd64   java-11-openjdk-amd64   java-8-openjdk-amd64   openjdk-11
root@ip-172-31-17-133:~#
```

10. Once it is installed add it on the Jenkins tools.

☰ JDK   ×

Name

OracleJDK8

JAVA_HOME

/usr/lib/jvm/java-1.8.0-openjdk-amd64

⚠ /usr/lib/jvm/java-1.8.0-openjdk-amd64 is not a directory on the Jenkins controller (but perhaps it exists on some agents)

☐ Install automatically ?

Add JDK

11. Now you need to scroll down and now you need to add Maven plugin.

12. Write the name and choose the options for it accordingly.

13. Then in the end just save this setting for now.

Maven installations

Add Maven

Maven ✕

Name

MAVEN3

☑ Install automatically ?

Install from Apache ✕

Version

3.9.6 ⌄

Add Installer ⌄

Add Maven