

```
1 sudo add-apt-repository ppa:openjdk-r/ppa
2 sudo apt-get update
3 sudo apt-get install -y fontconfig openjdk-17-jre openjdk-17-jdk
4 cd /usr/lib/jvm/java-17-openjdk-amd64
5 cd /tmp ; sudo wget
https://dlcdn.apache.org/maven/maven-3/3.9.6/binaries/apache-maven-3.9.6-bin.tar.gz
6 cd /tmp ; sudo tar -xzf apache-maven-3.9.6-bin.tar.gz -C /opt/
7 cd /opt
8 ls -l
9 mv /opt/apache-maven-3.9.6 /opt/maven
10 sudo su -
11 git --version
12 java --version
13 mvn --version
14 mvn -version
15 sudo apt install maven
16 mvn --version
17 history
18 sudo wget -O /usr/share/keyrings/jenkins-keyring.asc
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
19 exit
20 echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]
https://pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list >
/dev/null
21 sudo apt-get update
22 sudo apt-get install jenkins
23 ls /
24 cd /usr/lib/jvm/java-17-openjdk-amd64/
25 ls -l
26 cd /opt/maven/
27 ls -l
28 cd /var/lib/jenkins/
29 ls
30 cd
31 systemctl status jenkins.service
32 cat /var/lib/jenkins/secrets/initialAdminPassword
33 sudo cat /var/lib/jenkins/secrets/initialAdminPassword
34 history
35 cd /usr/lib/jvm/java-17-openjdk-amd64/
36 ls -l
37 pwd
38 cd /usr/bin/
39 ls -l java
40 cd /opt/maven/
```

```
41 ls -l
42 pwd
43 sudo su - jenkins
44 cd /var/lib/jenkins/
45 ls -l
46 cd ..
47 cd /usr/lib/jvm/java-17-openjdk-amd64/
48 ls -l
49 pwd
50 cd
51 cd /opt/maven
52 ls -l
53 pwd
54 cd /opt/maven
55 cd /var/lib/jenkins
56 ls -l
57 history
58 cd workspace/
59 ls -l
60 cd mypackage/
61 ls -l
62 cd target/
63 ls -l
64 cd ..
65 cd .
66 cd ..
67 cd /var/lib/jenkins/workspace/
68 ls -l
69 cd 'mypackage codereview'/
70 ls -l
71 cd target/
72 ls -l
73 history
```

ubuntu@jenkins-master:/var/lib/jenkins/workspace/mypackage codereview/target\$

-----Jenkins Master-----

```
ubuntu@jenkins-master:/var/lib/jenkins$ history
 1 sudo add-apt-repository ppa:openjdk-r/ppa
 2 sudo apt-get update
 3 sudo apt-get install -y fontconfig openjdk-17-jre openjdk-17-jdk
 4 cd /usr/lib/jvm/java-17-openjdk-amd64
```

```
5 cd /tmp ; sudo wget
https://dlcdn.apache.org/maven/maven-3/3.9.6/binaries/apache-maven-3.9.6-bin.tar.gz
6 cd /tmp ; sudo tar -xzf apache-maven-3.9.6-bin.tar.gz -C /opt/
7 cd /opt
8 ls -l
9 mv /opt/apache-maven-3.9.6 /opt/maven
10 sudo su -
11 git --version
12 java --version
13 mvn --version
14 mvn -version
15 sudo apt install maven
16 mvn --version
17 history
18 sudo wget -O /usr/share/keyrings/jenkins-keyring.asc
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
19 exit
20 echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]
https://pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list >
/dev/null
21 sudo apt-get update
22 sudo apt-get install jenkins
23 ls /
24 cd /usr/lib/jvm/java-17-openjdk-amd64/
25 ls -l
26 cd /opt/maven/
27 ls -l
28 cd /var/lib/jenkins/
29 ls
30 cd
31 systemctl status jenkins.service
32 cat /var/lib/jenkins/secrets/initialAdminPassword
33 sudo cat /var/lib/jenkins/secrets/initialAdminPassword
34 history
35 cd /usr/lib/jvm/java-17-openjdk-amd64/
36 ls -l
37 pwd
38 cd /usr/bin/
39 ls -l java
40 cd /opt/maven/
41 ls -l
42 pwd
43 sudo su - jenkins
44 cd /var/lib/jenkins/
```

```
45 ls -l
46 cd ..
47 cd /usr/lib/jvm/java-17-openjdk-amd64/
48 ls -l
49 pwd
50 cd
51 cd /opt/maven
52 ls -l
53 pwd
54 ls -l
55 cd /var/lib/jenkins/
56 ls -l
57 cd /var/bin/jenkins/
58 cd /var/bin/jenkins/
59 cd /var/lib/jenkins/
60 ls -l
61 history
62 exit
63 ps -ef|grep jenkins
64 cd /var/lib/jenkins/
65 jenkins --version
66 java --version
67 mvn version
68 mvn --version
69 cd /var/lib/jenkins
70 clear
71 cd /var/lib/jenkins
72 ls -l
73 cd workspace/
74 ls -l
75 cd sampleapp.package/
76 ls -l
77 cd target/
78 ls -l
79 cd
80 ls -l
81 cd /var/lib/jenkins
82 ls -l
83 ls
84 cd workspace/
85 ls -l
86 cd 'app package'
87 ls -l
88 cd target/
```

```
89 ls -l
90 cd ..
91 history
```

The screenshot shows the Jenkins Dashboard in a web browser. The address bar indicates the URL is 18.199.90.201:8080. The dashboard has a sidebar with links to Build History, Manage Jenkins, and My Views. The main content area displays the 'app ci-cd-pipeline' build history. A table lists the following builds:

S	W	Name	Last Success	Last Failure	Last Duration	# Issues
✓	☀	app code-coverage	1 hr 51 min #21	N/A	19 sec	▶ -
✓	☀	app code-review	1 hr 52 min #21	N/A	9.8 sec	▶ 11
✓	☀	app compile	1 hr 53 min #21	N/A	7.3 sec	▶ -
✓	☀	app package	1 hr 51 min #19	8 days 0 hr #1	13 sec	▶ -
✓	☀	app unit-test	1 hr 52 min #22	N/A	32 sec	▶ -

Below the table, the status is shown as 'built-in node + 1 agent (0 of 4 executors busy)'. The bottom of the screen shows a Windows taskbar with various application icons and a system tray with the date 28-07-2024 and time 15:57.

-----Jenkins Agent-----

```
ubuntu@jenkins-agent:/opt/jagenthome$ history
 1 hostnamectl set-hostname jenkins-agent
 2 sudo hostnamectl set-hostname jenkins-agent
 3 exit
 4 git --version
 5 java -version
 6 java --version
 7 sudo add-apt-repository ppa:openjdk-r/ppa
 8 sudo apt-get update
 9 sudo apt-get install -y fontconfig openjdk-17-jre openjdk-17-jdk
10 java --version
11 mvn --version
12 cd /tmp ; sudo wget
https://dlcdn.apache.org/maven/maven-3/3.9.6/binaries/apache-maven-3.9.6-bin.tar.gz
13 cd /tmp ; sudo tar -xzf apache-maven-3.9.6-bin.tar.gz -C /opt/
14 cd /opt
15 ls -l
16 cd maven
```

```
17 sudo su -
18 clear
19 git --version
20 java --version
21 mvn --version
22 cd /var/lib/jenkins/
23 cd /var/lib/jenkins
24 cd var/lib/jenkins
25 jenkins --version
26 cd /var/lib/jenkins
27 sudo wget -O /usr/share/keyrings/jenkins-keyring.asc
https://pkg.jenkins.io/debian-stable/jenkins.io-2023.key
28 echo deb [signed-by=/usr/share/keyrings/jenkins-keyring.asc]
https://pkg.jenkins.io/debian-stable binary/ | sudo tee /etc/apt/sources.list.d/jenkins.list >
/dev/null
29 sudo apt-get update
30 sudo apt-get install jenkins
31 ls /
32 cd /usr/lib/jvm/java-17-openjdk-amd64/
33 ls -l
34 cd /opt/maven/
35 ls -l
36 cd /var/lib/jenkins/
37 jenkins --version
38 ls -l
39 cd /var/lib/jenkins/
40 ls -l
41 cd
42 ls /
43 cd opt
44 cd /opt
45 ls -l
46 mkdir jagenthome
47 sudo mkdir jagenthome
48 cd jagenthome
49 ls -l
50 pwd
51 clear
52 cd /opt/jagenthome/
53 curl -sO http://3.76.222.231:8080/jnlpJars/agent.jar
54 ls -l
55 curl -sO http://10.0.0.19:8080/jnlpJars/agent.jar
```

```
56 java -jar agent.jar -url http://10.0.0.19:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome"
57 ls -l
58 cd ..
59 ls -l
60 cd jagenthome/
61 curl -sO http://3.76.222.231:8080/jnlpJars/agent.jar
62 ls -l
63 java -jar agent.jar -url http://3.76.222.231:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome"
64 ls -l
65 cd /opt/jagenthome/
66 curl -sO http://10.0.0.19:8080/jnlpJars/agent.jar
67 java -jar agent.jar -url http://10.0.0.19:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome"
68 ls -l
69 java -jar agent.jar -url http://10.0.0.19:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome"
70 curl -sO http://10.0.0.19:8080/jnlpJars/agent.jar
71 ls -l
72 curl -sO http://10.0.0.19:8080/jnlpJars/agent.jar
73 ls -l
74 clear
75 cd /opt/jagenthome
76 ls -l
77 curl -sO http://10.0.0.19:8080/jnlpJars/agent.jar
78 java -jar agent.jar -url http://10.0.0.19:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome"
79 ls -l
80 clear
81 cd /opt/jagenthome
82 curl -sO http://10.0.0.19:8080/jnlpJars/agent.jar
83 ls -l
84 curl -sO http://10.0.0.19:8080/jnlpJars/agent.jar
85 ls -l
86 ping 10.0.0.19
87 curl -sO http://10.0.0.19:8080/jnlpJars/agent.jar
88 ls -l
89 curl -sO http://18.192.126.164:8080/jnlpJars/agent.jar
```

```
90 ls -l
91 curl -sO http://18.192.126.164:8080/jnlpJars/agent.jar
92 ls -l
93 cp /tmp/agent.jar .
94 sudo cp /tmp/agent.jar .
95 ls
96 clear
97 cd /opt/jagenthome
98 ls -l
99 java -jar agent.jar -url http://10.0.0.19:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome"
100 ls -l
101 ps -ef|grep java
102 cd workspace
103 ls -l
104* java -jar agent.jar -url http://10.0.0.19:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome" &
105* java -jar agent.jar -url http://10.0.0.19:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome" &
106 curl -sO http://10.0.0.19:8080/jnlpJars/agent.jar
107 ls -l
108 java -jar agent.jar -url http://10.0.0.19:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome"
109 java -jar agent.jar -url http://18.199.90.201:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome"
110 java -jar agent.jar -url http://10.0.0.19:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome" &
111 ls -ld /opt/jagenthome
112 sudo chmod 755 /opt/jagenthome
113 java -jar agent.jar -url http://10.0.0.19:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome" &
114 sudo java -jar agent.jar -url http://10.0.0.19:8080/ -secret
ab1a935ce4799a9c5e585fc733e5ea5f6c6a305c50b28f689e52d583e7f9dcf7 -name
"agent-jenkins-java-project" -workDir "/opt/jagenthome" &
115 ls -l
116 cd workspace/
117 ls -l
```



```
118 cd workspace/
119 cd ..
120 ls -l
121 cd remoting/
122 ls -l
123 cd logs
124 ls -l
125 cd ..
126 cd workspace/
127 ls -l
128 cd ..
129 history
```

----- qa server(deploy package into application on tomcat server)-----

```
ubuntu@qa-server:~/apache-tomcat-9.0.91/bin$ history
```

```
1 yes
2 clear
3 java -version
4 add-apt-repository ppa:openjdk-r/ppa
5 sudo add-apt-repository ppa:openjdk-r/ppa
6 apt-get update
7 apt-get install -y fontconfig openjdk-17-jre openjdk-17-jdk
8 sudo apt-get update
9 sudo apt-get install -y fontconfig openjdk-17-jre openjdk-17-jdk
10 java -version
11 wget https://dlcdn.apache.org/tomcat/tomcat-9/v9.0.91/bin/apache-tomcat-9.0.91.tar.gz
12 ls -
13 ls -l
14 ls -ltrh
15 tar -xzf apache-tomcat-9.0.91.tar.gz
16 ls -l
17 rm -r apache-tomcat-9.0.91.tar.gz
18 ls -l
19 cd apache-tomcat-9.0.91/
20 ls -l
21 cd bin/
22 ls -l
23 ./startup.sh
24 ps -ef|grep tomcat
25 cd ..
26 ls -l
27 cd conf/
28 ls -l
```

```

29 cd ..
30 ls -l
31 cd webapps/
32 ls -l
33 cd .
34 cd /root/apache-tomcat-9.0.91/webapps/
35 sudo cd /root/apache-tomcat-9.0.91/webapps/
36 cd ..
37 ls -l
38 cd webapps/
39 wget https://github.com/lerndevops/code/raw/main/sampleapp.war
40 ls -l
41 cd ..
42 ls -l
43 cd bin/
44 ls
45 ./shutdown.sh
46 ps -ef|grep tomcat
47 ./startup.sh
48 history

```

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