

# Setting-up Jenkins Agent as a Window's Service

This article will help you in setting-up jenkins agent on your PC.

## Requirements:

- Node should have been configured on jenkins-master by an administrator.
- agent.jar file will be sent to you by administrator.

What does the Jenkins-Administrator require in order to Create your node?

- Path of Working Directory (The location on your PC where Jenkins will be set-up)
- Path of git.exe on your PC.

## Instructions

Follow these steps in order.

1. First **Install java 11** or 17 if not already installed on your PC. Open CMD/Powershell and run.

```
1 java -version
```

Java Download Link: <https://www.openlogic.com/openjdk-downloads>

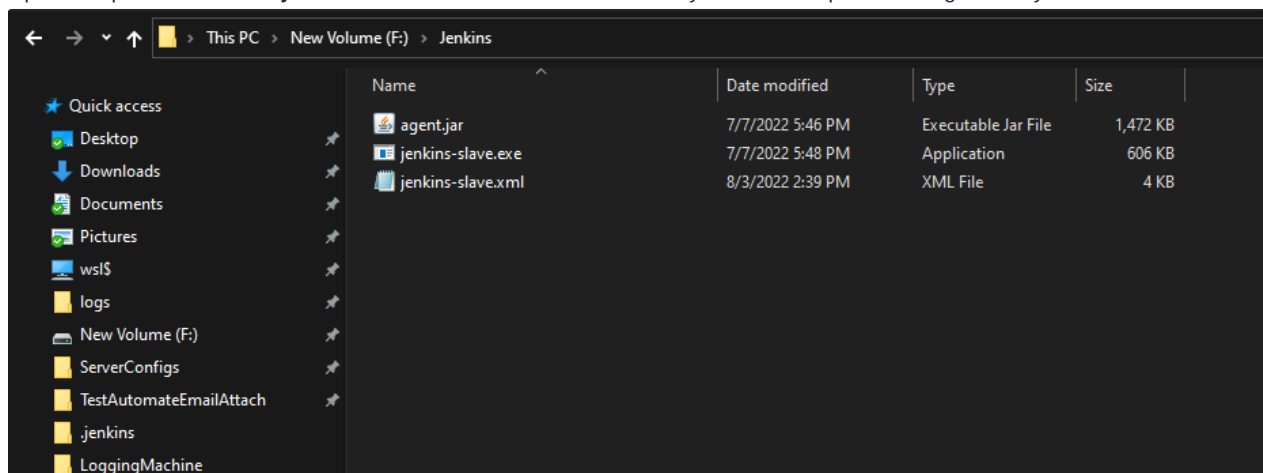
2. Place the agent.jar file received from administrator in the Jenkins Working Directory (the path which you provided to administrator).

3. Download WinSW in the same folder.

<https://github.com/winsw/winsw/releases/download/v2.11.0/WinSW-x64.exe>

4. Rename [WinSW-x64.exe](#) to jenkins-slave.exe

5. Open Notepad and Create a **jenkins-slave.xml** file in the same directory. After this step the working directory should look like this:



6. You will receive the command from administrator which looks something like this after your Node has been created.

```
1 java -jar agent.jar -jnlpUrl http://35.xxx.xx.105:8080/computer/myComputer/jenkins-agent.jnlp -secret a47f1d7d
```

7. Open **jenkins-slave.xml** and paste the text below:

Note: in **<arguments>-Xrs [command from step 5]</arguments>** block, you must paste the above command without java. i.e. from **-jar agent.jar -jnlpUr.....**

```
1 <service>
2   <id>jenkins-slave</id>
3   <name>Jenkins agent (jenkins-slave)</name>
4   <description>This service runs an agent for Jenkins automation server.</description>
5   <!--
6     if you'd like to run Jenkins with a specific version of Java, specify a full path to java.exe.
7     The following value assumes that you have java in your PATH.
8   -->
9   <executable>"C:\Program Files\Java\jdk-17.0.4\bin\java.exe"</executable>
10  <arguments>-Xrs -jar agent.jar -jnlpUrl http://35.xxx.xx.105:8080/computer/myComputer/jenkins-agent.jnlp -s
11  <!--
12    interactive flag causes the empty black Java window to be displayed.
13    I'm still debugging this.
14  <interactive />
15  -->
16  <logmode>rotate</logmode>
17
18  <onfailure action="restart" />
19
20 </service>
```

**i** Make sure that executable block contains correct path to java.exe on your PC

1. 1 <executable>C:/Path/to/java.exe</executable>

8. Open **cmd** and run:

```
1 jenkins-slave.exe install
```

```
1 jenkins-slave.exe start
```

Login to jenkins using your credentials and navigate to your Node. It should now be connected and you should be able to run your builds.

The screenshot shows the Jenkins web interface. At the top, there's a navigation bar with 'Dashboard > Nodes > Amjad'. Below this, on the left, is a sidebar with links: 'Back to List', 'Status', 'Delete Agent', 'Configure', 'Build History', and 'Load Statistics'. The main content area is titled 'Agent Amjad' and shows 'Agent is connected.' Below this, it says 'Projects tied to Amjad' and lists a project: 'OMSServers » Ignite » Ignite-deploy' with a green checkmark icon.

## Related articles

- [winsw/winsw: A wrapper executable that can run any executable as a Windows service, in a permissive license. \(github.com\)](#)