Troubleshooting jenkins

1. Installation and communication

I want install jenkins master in windows machin and I want to connect the master to my nodes running on ubuntu(slave) hosted VmWare.

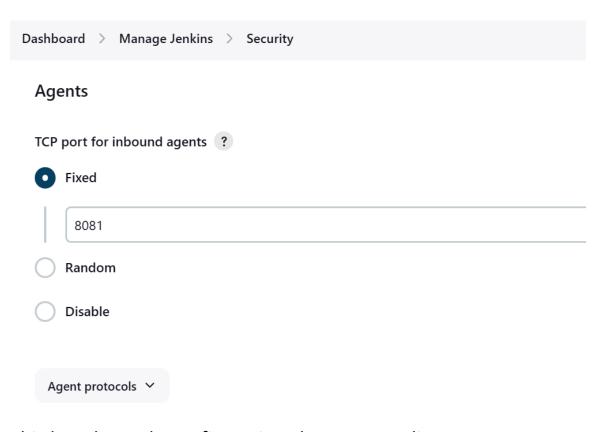
But once I use **webSocket**, the connection doen't work. The error was like "Connection refused", "Error of handshaking".

So decide I decide to use **Tunneling** to connect my host.

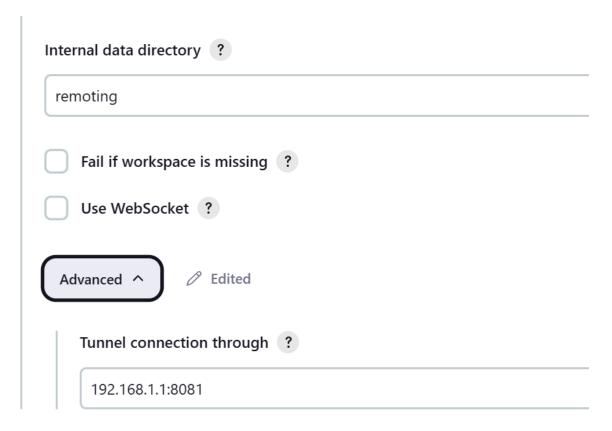
First you have to choose a port for the connection between the master and the node (port 8081 for my case) you have to enale it in your windows firewall.



Second, Go to **Manage jenkins -- > Security -- > Agent** and fixe the port to **8081**.



Third, In the node configuration choose Tunneling



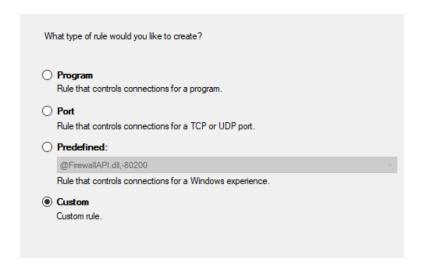
Finally you have to go to **Manage jenkins** -- > **System** and change the jenkins url.

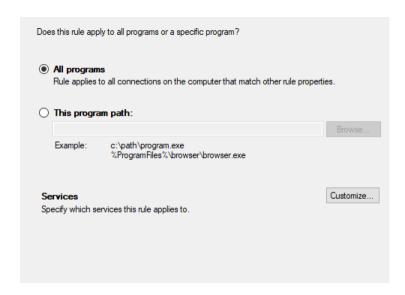
Dashboard > Manage Jenkins > System >
Jenkins Location
Jenkins URL ?
http://192.168.1.1:8080/
System Admin e-mail address ?
address not configured yet <nobody@nowhere></nobody@nowhere>

Otherwise you'll get some error like if you run the agent.jar file in your node: "http://localhost:8080/tcpSlaveAgentListener/ is invalid: 404 Not Found"

Now you can the jar file to your node

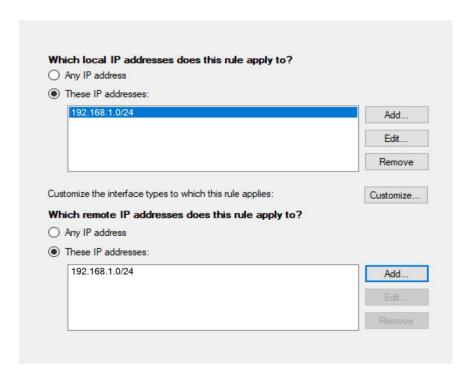
If you get a connection timeout, review your windows firewall by adding a new Inbounds rule.



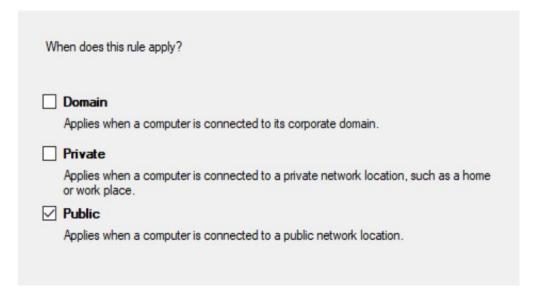


Type next and again next

Choose the network ip address (in my case my laptop and vm share the 192.168.1.0/24)



Choose allow all connection, clic Next,



Choose a name and create

2. Git error.

```
> git.exe init /jenkins_root_directory/workspace/testpipeline # timeout=10
ERROR: Error cloning remote repo 'origin'
Caused by: java.io.IOException: Cannot run program "git.exe" (in directory
"/jenkins_root_directory/workspace/testpipeline"): error=2, No such file or directory
```

The problem is: I install Jenkins in Windows and in the global tool windows use **git.exe**. Instead my worker is a linux machin, so linux doesn't know git.exe

SOLUTION: Go to Manage Jenkins -- > Tools -- > git,

Give variable name (like git3) and the location of git in the linux worker

(/usr/bin/git). Finally in the pipeline tool section specify the git variable

name like we do with maven.



```
tools{
    git "git3"
    maven "Maven3"
}
```