Jenkins Slave Configuration

IA DevOps

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Steps to configure Jenkins slave.

Here, Master Jenkins is hosted in Linux machine and Jenkins Slave will be configured in Windows virtual machine

Steps to configure slave Jenkins on Windows virtual machine.

Login to Windows Slave Jenkins. Open browser to login into Jenkins,

Master Jenkins URL: http://10.12.190.142/

https://pmt-hps-jenkins.honeywell.com/ (NEW)

User Credentials : <H\EID>
Password : <password>

Pre-Requisite:

1. Install Java

Download Link: Java Downloads | Oracle1

Install JDK 11 or above version and set Environment variable

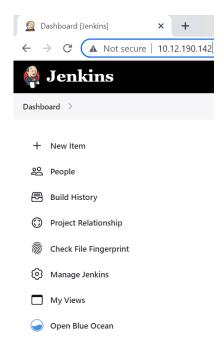
- 2. Open Windows Powershell ISE with Administrator mode and run below command each at a time,
 - Set-ExecutionPolicy Bypass -Scope Process -Force; [System.Net.ServicePointManager]::SecurityProtocol = [System.Net.ServicePointManager]::SecurityProtocol -bor 3072; iex ((New-Object System.Net.WebClient).DownloadString('https://community.chocolatey.org/install.ps1'))²
 - choco install --package-parameters=/SSHServerFeature openssh -y
- 3. Install .NET Framework 3.5 on build virtual machine

Jenkins Installation Steps:

1. Login to Master Jenkins: http://10.12.190.142/ using user credentials. Click on Manage Jenkins

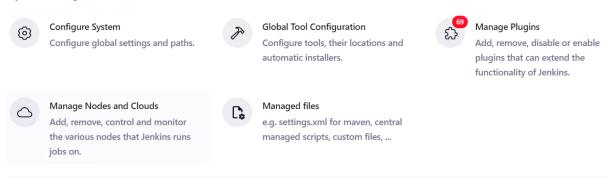
¹ https://www.oracle.com/java/technologies/downloads/#jdk22-windows

² https://community.chocolatey.org/install.ps1%27))

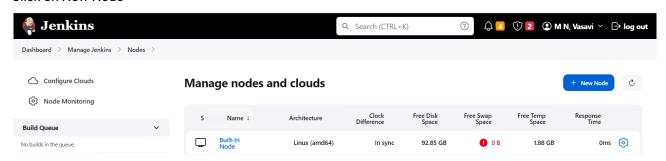


Select 'Manage Nodes and Clouds' under System configuration

System Configuration



Click on New Node

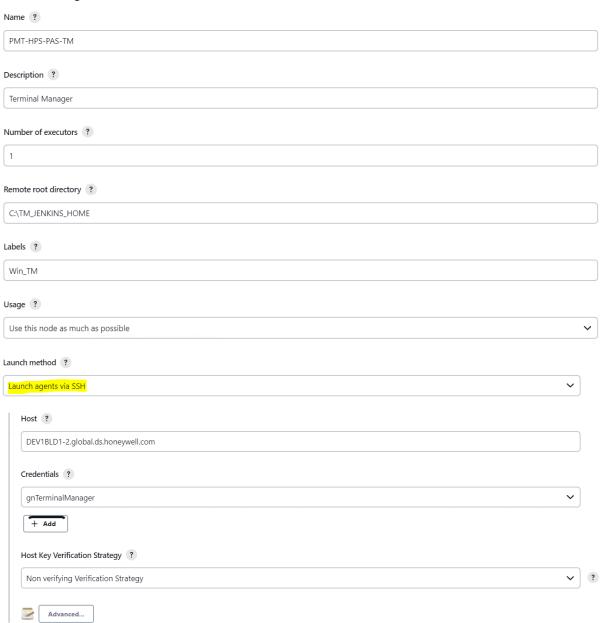


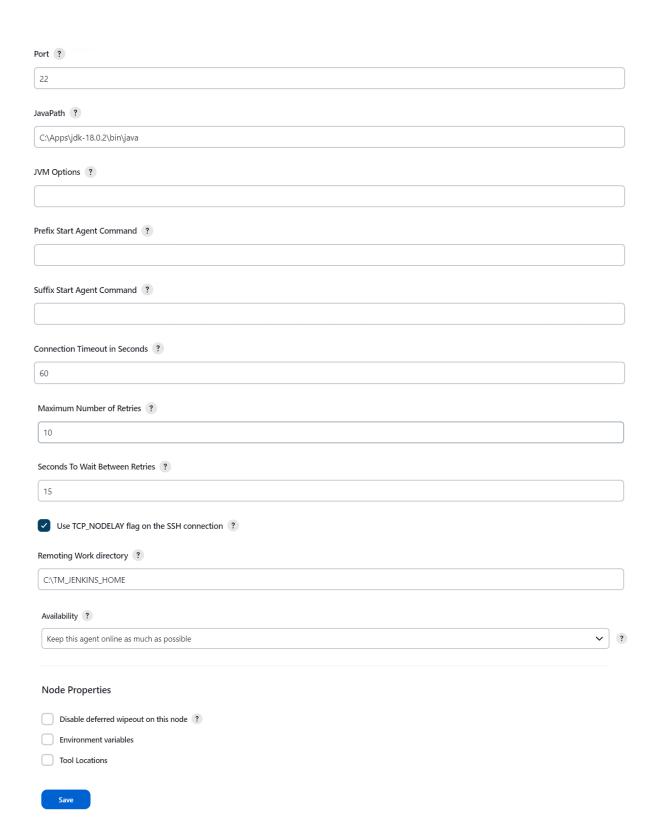
Here, 2 ways of Jenkins slave installation is explained,

1. Launch agent via SSH

2. Launch agent by connecting it to the controller

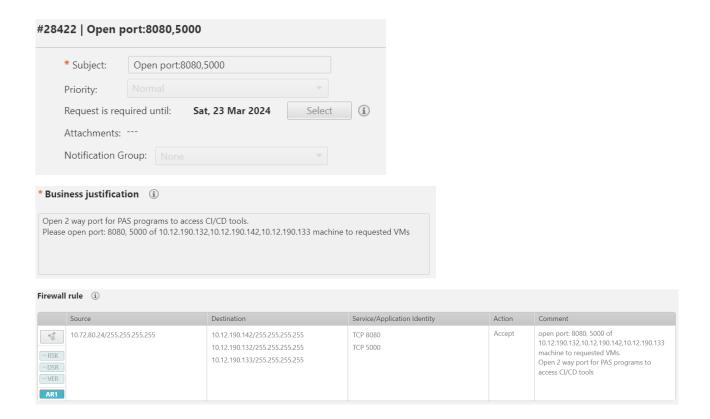
1. Launch agent via SSH





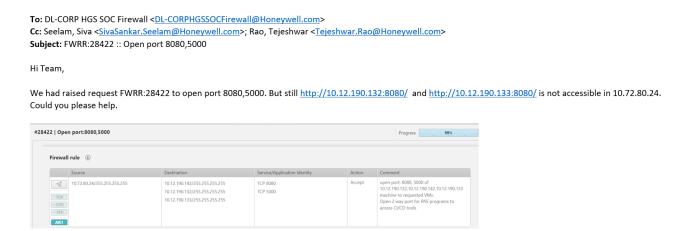
$\boldsymbol{2}$. Launch agent by connecting it to the controller

(a) Raise FWRR to open firewall port: 8080, 5000 (reference ticket: 28422)



Try to access http://10.12.190.132:8080/ and http://10.12.190.133:8080/ from 10.72.80.24.If not able to access then send mail to Firewall team (DL-CORPHGSSOCFirewall@Honeywell.com³) as below,

Note: Zicha, Karel < Karel. Zicha@Honeywell.com4 > from Firewall team had fixed this issue



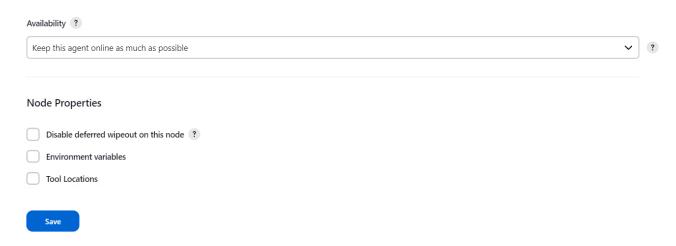
(b) Follow below steps,

Reference for Jenkins slave configure: https://stackoverflow.com/questions/44751960/install-jenkins-slave-as-a-windows-service-in-command-line

³ mailto:DL-CORPHGSSOCFirewall@Honeywell.com

⁴ http://Honeywell.com

Name ?
PMT-HPS-PAS-TMR
Description ?
Terminal Manager
Number of executors ?
4
Remote root directory ?
C:\TMR_JENKINS
Labels ?
TMR_WIN
Usage ?
Use this node as much as possible
Launch method ?
Launch agent by connecting it to the controller
Disable WorkDir ?
Custom WorkDir path ?
C:\TMR_JENKINS
Internal data directory ?
remoting
Fail if workspace is missing ?
Use WebSocket ?
Tunnel connection through ?



Click Save

Get the agent jar to download and secret key once jenkins slave configuration is saved,



Jenkins home folder should have 1. agent.jar, 2. jenkins-slave.xml, 3. winsw-2.x.0-bin.exe

Follow below steps for copying the above mentioned files to C:\JENKINS,

- Create a Jenkins home folder on build virtual machine ie., C:\JENKINS
- · Download the agent.jar
- Copy agent.jar to C:\JENKINS
- · Rename agent.jar as slave.jar
- Copy the jenkins-slave.xml to C:\JENKINS and change it accordingly (note: Got this XML from Siva.
 Have attached the jenkins-slave.xml in this confluence page: https://confluence.honeywell.com/download/attachments/872313460/jenkins-slave.xml?api=v2)

Change the highlighted, according to your project

```
if you'd like to run Jenkins with a specific version of Java, specify a full path to java.exe. The following value assumes that you have java in your PATH.
  executable>C:\Program Files\Java\jdx-18.0.2.1\bin\java.exec/executable>
carguments-/xrs -jar "%BASE%slave.jar" -jnlpUrl http://10.12.190.132;9080/manaqe/computer/PMT%ZDMPS%ZDPAS%ZDTMR/jenkins-aqent.jnlp -secret 16238e47218dc0b0034b19e54
  <!--
interactive flag causes the empty black Java window to be displayed.
I'm still debugging this.
cinteractive />
 --> <logmode>rotate</logmode>
 <onfailure action="restart" />
     If uncommented, download the Remoting version provided by the Jenkins master.

Enabling for HTTP implies security risks (e.g. replacement of JAR via DNS poisoning). Use on your own risk.

NOTE: This option may fail to work correctly (e.g. if Jenkins is located behind HTTPS with untrusted certificate).

In such case the old agent version will be used; you can replace slave.jar manually or to specify another download URL.
   <!--- <download from="http://HPVIElFCMVM05.devl.honeywell.com:8080/jnlpJars/slave.jar" to="%BASE%\slave.jar"/> -->
     In the case WinSW gets terminated and leaks the process, we want to abort these runaway JAR processes on startup to prevent "Slave is already connected errors" (JENKINS-28492).
   <extensions>
      <!-- This is a sample configuration for the RunawayProcessKiller extension. -->
                       className="winsw.Plugins.RunawayProcessKiller.RunawayProcessKillerExtension"
                        id="killOnStartup":
         <pidfile>%BASE%\jenkins_agent.pid</pidfile>
         <stopTimeout>5000</stopTimeou</pre>
         <stopParentFirst>false/stopParentFirst>
   </extensions>
   <!-- See referenced examples for more options -->
</service>
```

- Download the latest service wrapper executable (winsw-2.x.0-bin.exe) from http://repo.jenkins-ci.org/ public/com/sun/winsw/winsw/
- copy the winsw-2.x.0-bin.exe to C:\JENKINS
- Rename winsw-2.x.0-bin.exe into jenkins-slave.exe
- · Below is the command to install jenkins service

Open command prompt as administrator, Execute the command "jenkins-slave.exe install"

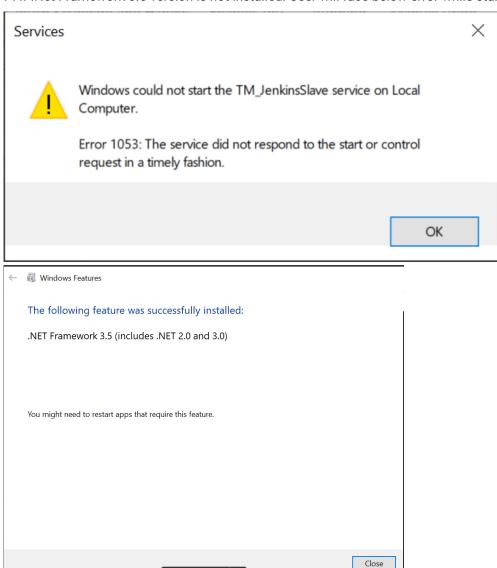
Open service.msc as administrator. Change logon user name for jenkins Service

TM_Jenki	「M_JenkinsSlave Properties (Local Computer)								
General	Log On	Recove	ery Dependencies	5					
Log on as:									
○ Local System account									
Allow service to interact with desktop									
This account:			gnTerminalManager@honeywe		Browse				
Password: Confirm password:		••••••							

Start the Jenkins services

1 Jenkins Slave Configuration Error and Solution

1. If .Net Framework 3.5 version is not installed. User will face below error while starting Jenkins service



2. Error while starting Jenkins service

Error: error 1069: jenkins did not start due to logon failure

Solution: update password in jenkins services

3. Unable to create jenkins service in windows

solution: Open command prompt as administrator, Execute the command "sc.exe create Jenkins binPath= "C:\JENKINS\jenkins-slave.exe" "