

Distributed set up

Distribute set up in Jenkins

1. when we have many scripts to be executed using many users and using many servers
2. when you have requirement to do performance testing a particular region of user
3. when testing has to be done on different platform
4. in distributed set up we will have 1 main JMeter server and JMeter scripts/samplers
5. We will have host servers that will act as workers where script will be executed remotely

Distributed Set up:

Master Node:

1. java version ≥ 8
2. environment variables for java have to be set
3. JMeter 5.6.2

Remote machine:

1. java version ≥ 8
2. environment variables for java have to be set
3. JMeter 5.6.2

Distributed set up we will use same machine as master and as slave

Step 1: Ip address of current laptop:

open command prompt > execute command ipconfig

IPv4 Address. : 192.168.1.7

Step 2:

- a. go apache JMeter folder/bin
- b. open the JMeter properties file
- c. make changed to remote hosts section

d. Add the `remote_hosts = 192.168.1.7`

	Name	Date modified	Type	Size
	▼ Today			
Personal	jmeter	01-11-2023 10:34	Text Document	153 KB
	▼ Yesterday			
s	PluginsManagerCMD	31-10-2023 21:21	Windows Batch File	1 KB
s	PluginsManagerCMD	31-10-2023 21:21	Shell Script	1 KB
	jmeter-server	31-10-2023 19:30	Text Document	9 KB
	rmi_keystore.jks	31-10-2023 19:27	JKS File	3 KB
	jmeter	31-10-2023 19:20	PROPERTIES File	58 KB
	▼ Last week			

In this file search for remote hosts

```
#-----  
# Remote hosts and RMI configuration  
#-----  
  
# Remote Hosts - comma delimited  
#remote_hosts=127.0.0.1  
remote_hosts=192.168.1.7|  
#remote_hosts=localhost:1099,localhost:2010  
  
# RMI port to be used by the server (must start rmiregistry with  
#server_port=1099
```

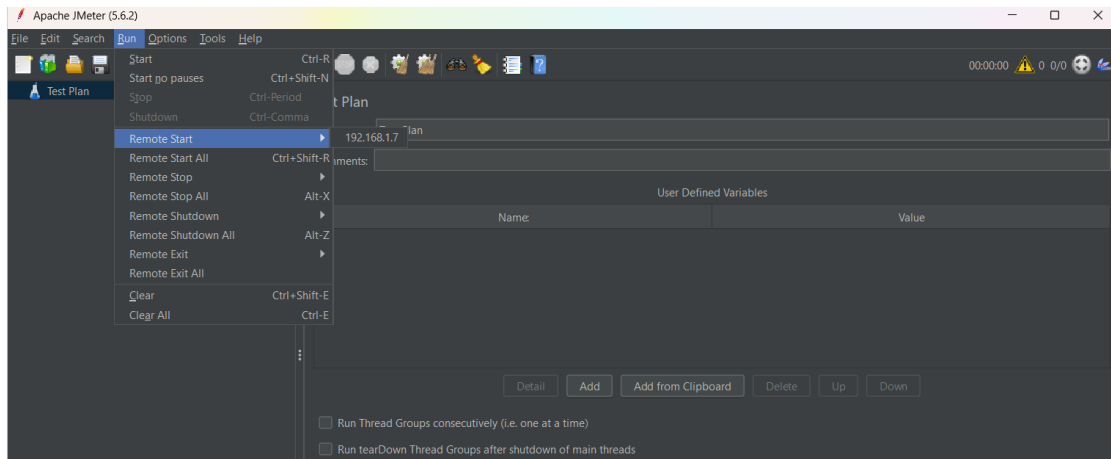
In the same file search for `server.rmi.ssl.disable`

Remove the #

`server.rmi.ssl.disable = true`

```
#  
# Type of truststore : JKS  
#server.rmi.ssl.truststore.type=JKS  
#  
# Keystore file that contains certificate  
#server.rmi.ssl.truststore.file=rmi_keystore.jks  
#  
# Password of truststore  
#server.rmi.ssl.truststore.password=changeit  
#  
# Set this if you don't want to use SSL for RMI  
server.rmi.ssl.disable=true  
#-----  
# Include Controller
```

Stop and restart your jmeter



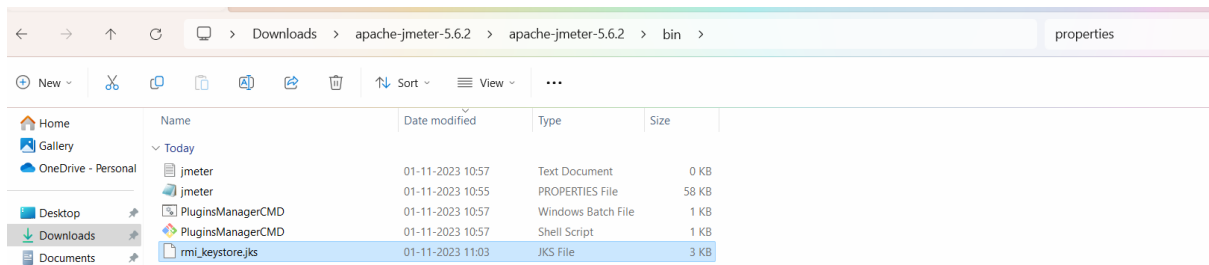
Again go to apache folder/bin folder and search for a file with name:

create-rmi-keystore -> windows batch file

This file is executable. Double click on it and it will open a command prompt and enter as show below details and press enter

```
What is your first and last name?
[Unknown]: rmi
What is the name of your organizational unit?
[Unknown]: qa
What is the name of your organization?
[Unknown]: qa
What is the name of your City or Locality?
[Unknown]: a
What is the name of your State or Province?
[Unknown]: hr
What is the two-letter country code for this unit?
[Unknown]: IN
Is CN=rmi, OU=qa, O=qa, L=a, ST=hr, C=IN correct?
[no]: yes
```

A file with name rmi_keystore.jks will get generated



In the bin folder itself search for jmeter-server -> windows batch file

stoptest	25-10-2023 18:43	Shell Script	2 KB
utility	25-10-2023 18:43	Groovy Source File	2 KB
BeanShellFunction.bshrc	25-10-2023 18:43	BSHRC File	3 KB
heapdump	25-10-2023 18:43	Windows Comma...	2 KB
jmeter-server	25-10-2023 18:43	Windows Batch File	3 KB
mirror-server	25-10-2023 18:43	Windows Comma...	2 KB

Double click on it, it will open command prompt and make connect between master and slave

```

C:\WINDOWS\system32\cmd. x + v
Could not find ApacheJmeter_core.jar ...
... Trying JMeter_HOME=...
Found ApacheJMeter_core.jar
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future r
elease
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future r
elease
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future r
elease
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future r
elease
Created remote object: UnicastServerRef2 [liveRef: [endpoint:[192.168.1.7:50357](local),objID:[-41271996:18b89627e0a:-7#
ff, 2390624086204562033]]]

```

Keep the command prompt running/open.

Stop and restart jmeter

Create a test on jmeter and go to Menu option → run → Click on remote start

