Distributed Set Up :

This short tutorial explains how to use multiple systems to perform stress testing. Before we start, there are a couple of things to check.

Preconditions:

- the firewalls on the systems are turned off or correct ports are opened.
- all the clients are on the same subnet.
- the server is in the same subnet, if `192.x.x.x` or `10.x.x.x` IP addresses are used. If the server doesn't use `192.xx` or `10.xx` IP address, there shouldn't be any problems.
- Make sure JMeter can access the server.
- Make sure you use the same version of JMeter and Java on all the systems. Mixing versions will not work correctly.
- You have setup SSL for RMI or disabled it.

Terminology

Before we dive into the step-by-step instructions, it's a good idea to define the terms and make sure the definition is clear.

Controller Node
    the system running JMeter GUI, which controls the test
Worker Node
    the system running `jmeter-server`, which takes commands from the GUI and send requests to the target system(s)
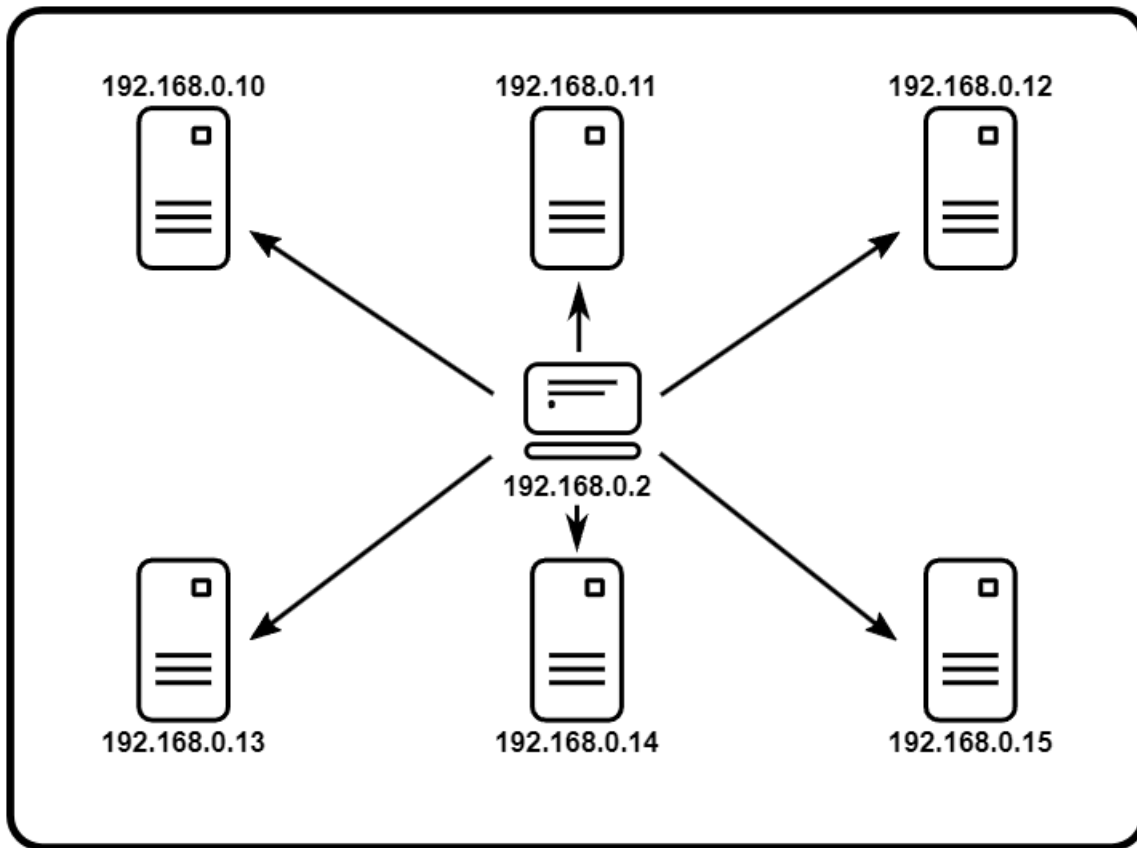Target
    the webserver we plan to stress test

Master Node :

- Java version >=8
- Environment variables for java have to set
- apache-jmeter-5.6.2

Remote Machine(Slave):

- Java version >=8
- Environment variables for java have to set
- apache-jmeter-5.6.2

1. Need to find ip address of current machine/laptop.
2. Command : ipconfig
3. `IPv4 Address. . . . . . . . . . . : 192.168.0.2`
4. 192.168.0.2
5. Go to Apache Jmeter folder /bin
6. Open the jmeter properties file
7. Make changed to remote_hosts section
8. Add remote_hosts = 192.168.0.2

Sort   View   •••

Name	Date modified	Type	Size
jmeter	12/4/2023 10:45 AM	File	9 KB
jmeter	12/4/2023 10:45 AM	Windows Batch File	9 KB
jmeter	12/8/2023 9:58 AM	Text Document	78 KB
jmeter.properties	12/4/2023 10:45 AM	PROPERTIES File	58 KB

9.

File   Edit   View

#jmeter.gui.action.save.keep_backup_max_hours=0

remote_hosts

#Set the maximum number of backup
#Setting this to zero will cause the backups to not being deleted (unless keep_backup_max_hours is set to a non zero value)
#jmeter.gui.action.save.keep_backup_max_count=10

#Enable auto saving of the .jmx file before start run a test plan
#When enabled, before the run, the .jmx will be saved and also backed up to the directory pointed
#save_automatically_before_run=true

#--
Remote hosts and RMI configuration
#--

# Remote Hosts - comma delimited
remote_hosts=127.0.0.1
#remote_hosts=localhost:1099,localhost:2010

10.

The JMeter server creates by def   server.rmi.ssl.disable
To stop the server creating the
#server.rmi.create=false

Define the following property to cause JMeter to exit after the first test
#server.exitaftertest=true

#
Configuration of Secure RMI connection
#
Type of keystore : JKS
#server.rmi.ssl.keystore.type=JKS
#
Keystore file that contains private key
#server.rmi.ssl.keystore.file=rmi_keystore.jks
#
Password of keystore
#server.rmi.ssl.keystore.password=changeit
#
Key alias
#server.rmi.ssl.keystore.alias=rmi
#
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=false

11. #
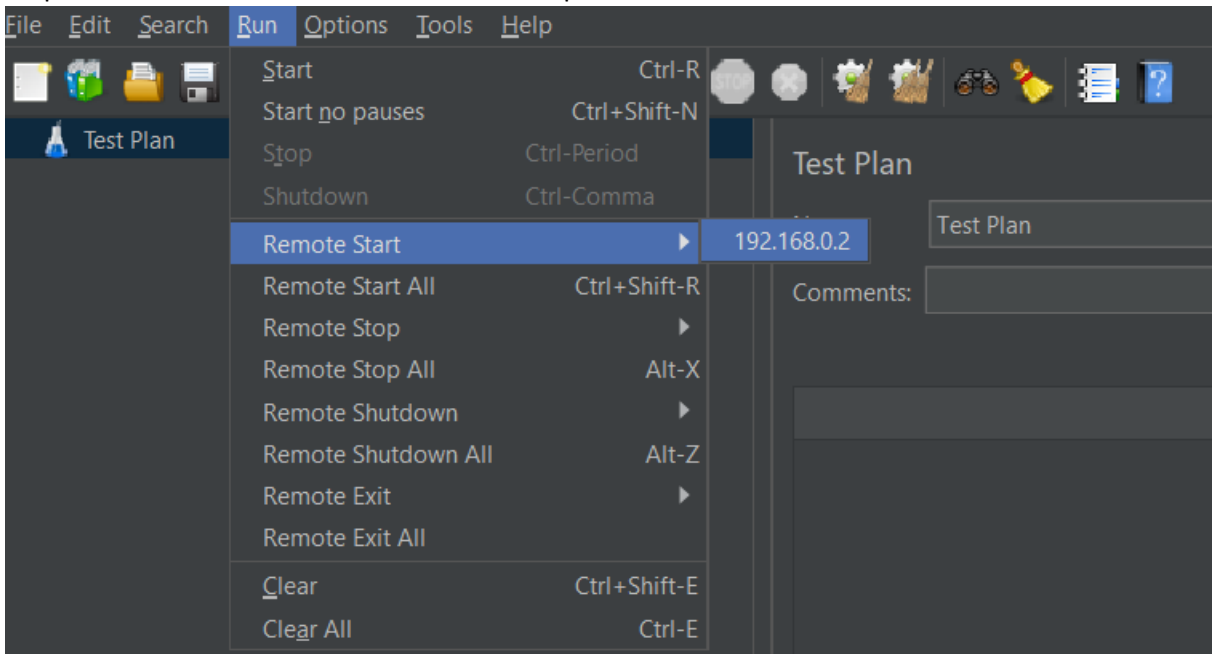
12. Now change it to   server.rmi.ssl.disable=true (as per below_

```
#
# Set this if you don't want to use SSL for RMI
server.rmi.ssl.disable=true
#-------------------------------------------------------------------
#           Include Controller
#-------------------------------------------------------------------
```

13.

14. Stop and Restart Jmeter now. Just refer below ipaddress and do not click on it.

15.
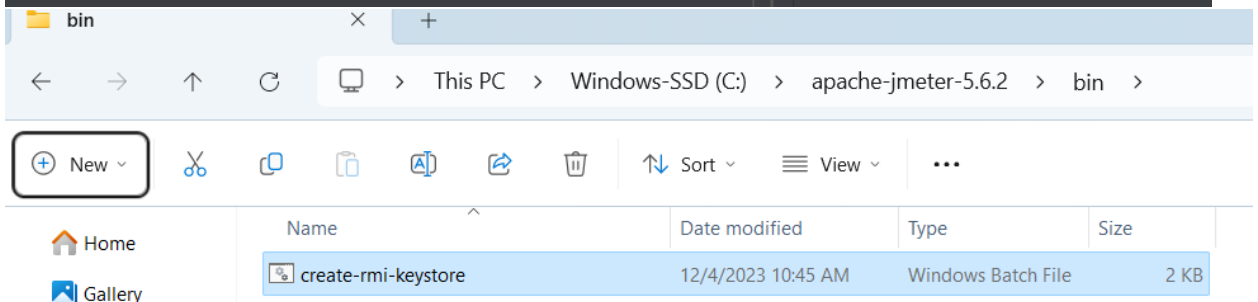
16.

17. Double click on above file and provide some values. In last provide forcefully :: yes and it will generate "rmi.keystore.jks" file in bin folder.

18.

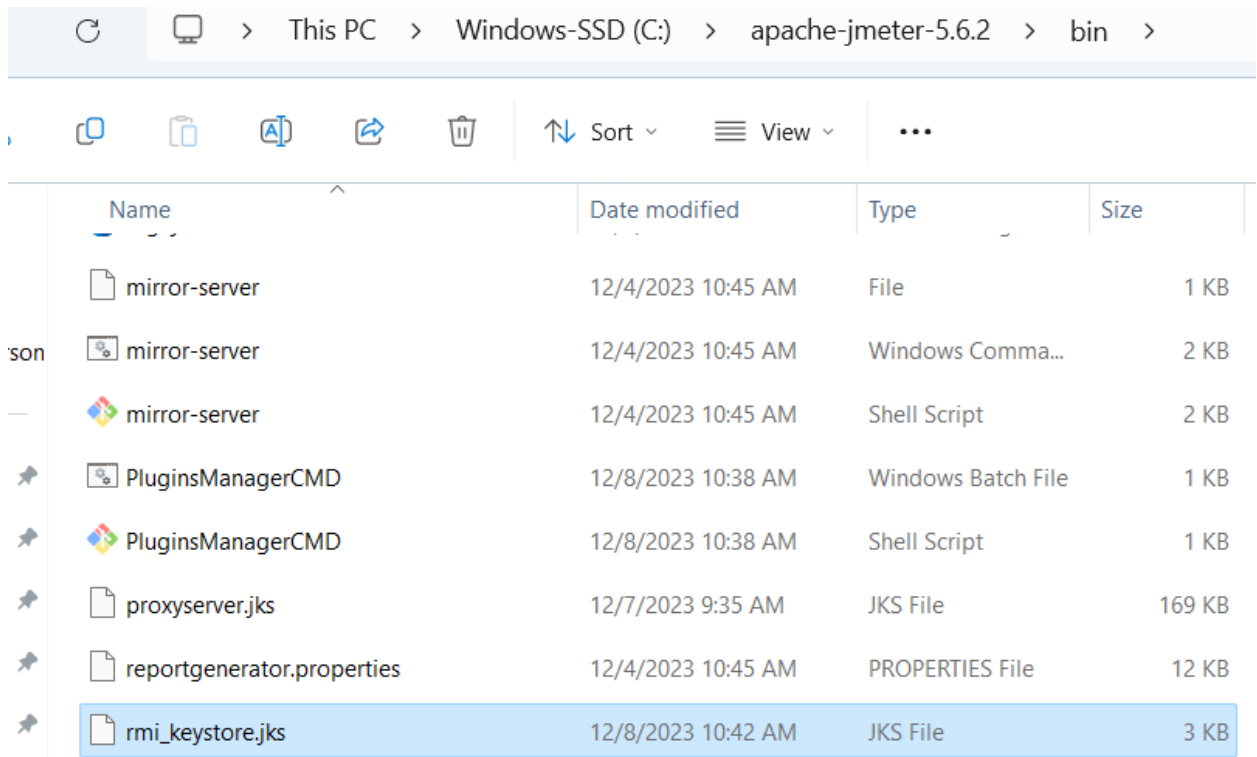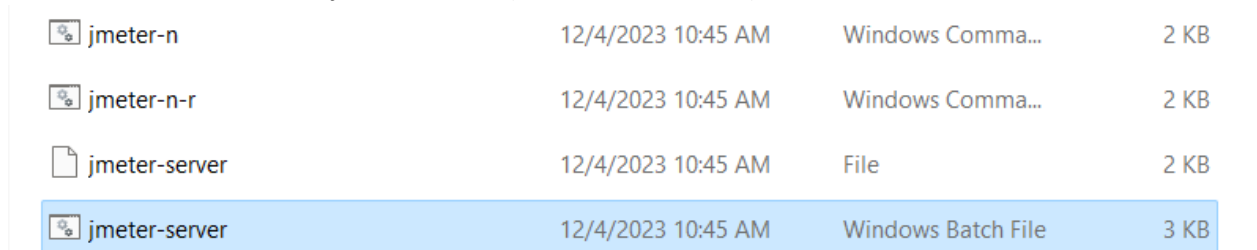| Name	Date modified	Type	Size
mirror-server	12/4/2023 10:45 AM	File	1 KB
mirror-server	12/4/2023 10:45 AM	Windows Comma...	2 KB
mirror-server	12/4/2023 10:45 AM	Shell Script	2 KB
PluginsManagerCMD	12/8/2023 10:38 AM	Windows Batch File	1 KB
PluginsManagerCMD	12/8/2023 10:38 AM	Shell Script	1 KB
proxyserver.jks	12/7/2023 9:35 AM	JKS File	169 KB
reportgenerator.properties	12/4/2023 10:45 AM	PROPERTIES File	12 KB
rmi_keystore.jks	12/8/2023 10:42 AM	JKS File	3 KB

19.

20. Double click on below file "jmeter-server"(Windows Batch File)

jmeter-n	12/4/2023 10:45 AM	Windows Comma...	2 KB
jmeter-n-r	12/4/2023 10:45 AM	Windows Comma...	2 KB
jmeter-server	12/4/2023 10:45 AM	File	2 KB
jmeter-server	12/4/2023 10:45 AM	Windows Batch File	3 KB

21.

```
C:\WINDOWS\system32\cmd.  ×    +  ∨                                                          –  ☐  ×
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 release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
WARN StatusConsoleListener The use of package scanning to locate plugins is deprecated and will be removed in a future release
Created remote object: UnicastServerRef2 [liveRef: [endpoint:[192.168.152.1:51810](local),objID:[4a036adf:18c47dd4d81:-7fff, -309468839
555720370]]]

               Keep the command prompt running/ open.
```

22.

23. Now Stop and start your jmeter. Go to Run > Remote Start > Click on ipaddress(192.168.1.2)

24.