

SET UP JMETER MASTER SLAVE :-

Create two ec2 instance t2.medium as t2.micro will not work in this scenerio

- 1) Install java and apache-j-meter on both the server, the version of java and apache-j-meter should be similar on both server

To install java execute the below command:-

```
sudo apt-get update -y && sudo apt-get install openjdk-8-jdk -y
```

To install apache-j-meter follow the link below

```
http://jmeter.apache.org/download\_jmeter.cgi
```

- 2) Untar your apache-j-meter tar file using

```
tar -zxvf <package-name>
```

- 3) Now choose one of the instances that have created as a master for jmeter

Master Configuration

- a) The following changes need to be done for the master setup:

Open jmeter.properties present in the bin directory on the Master machine and mention all the slave ips in as remote hosts with the ports assigned in the above slave configuration –
remote_hosts=localhost: 1099,<slave-ip>:2010

Localhost need not be mentioned if you do not want to use the Master machine to be a part of remote testing to put the load on the application.

- b) Set the server port in the same jmeter.properties file
-server_port=1099

```

#-----
# Remote hosts and RMI configuration
#-----

# Remote Hosts - comma delimited
#remote_hosts=127.0.0.1
remote_hosts=localhost:1099,172.31.91.177:2010

# RMI port to be used by the server (must start rmiregistry with same
port)
server_port=1099

# To change the port to (say) 1234:
# On the server(s)
# - set server_port=1234
# - start rmiregistry with port 1234
# On Windows this can be done by:
# SET SERVER_PORT=1234

```

c) After making the above changes, execute jmeter-server on your linux master machine which will be present in the bin directory.

NOTE:-

AFTER EXECUTING jmeter-server IF YOU SEE ANY ERROR LIKE

```

Server failed to start: java.rmi.server.ExportException: Listen
failed on port: 0; nested exception is:
    java.io.FileNotFoundException: rmi_keystore.jks (No such file
or directory)
An error occurred: Listen failed on port: 0; nested exception is:
    java.io.FileNotFoundException: rmi_keystore.jks (No such file
or directory)

```

FOLLOW THE LINK BELOW TO RESOLVE THIS ERROR:-

<https://www.perfmatrix.com/server-failed-to-start-java-rmi-server-exportexception/>

Slave Configuration

After having a similar copy of JMeter in the slaves, follow the below steps for all the Slave machines:

- a) Open jmeter-server file present in the bin directory of jmeter and uncomment the below line –

```
RMI_HOST_DEF=-Djava.rmi.server.hostname=xxx.xxx.xxx.xxx
```

Also instead of xxx.xxx.xxx.xxx, give the ip of the linux machine you have opened.

- b) Give a specific rmi port no. in the below line of the same jmeter-server file –

```
${DIRNAME}/jmeter ${RMI_HOST_DEF}
```

```
-Dserver_port=${SERVER_PORT:-2010} -s -j jmeter-server.log "$@"
```

This port will be further used in the master configuration, hence give different ports for all the different slave machines.

```
DIRNAME=`dirname $0`
```

```
# If the client fails with:
```

```
# ERROR - jmeter.engine.ClientJMeterEngine:
```

```
java.rmi.ConnectException: Connection refused to host: 127.0.0.1
```

```
# then it may be due to the server host returning 127.0.0.1 as its  
address
```

```
# One way to fix this is to define RMI_HOST_DEF below
```

```
RMI_HOST_DEF=-Djava.rmi.server.hostname=172.31.91.177
```

```
${DIRNAME}/jmeter ${RMI_HOST_DEF} -Dserver_port=${SERVER_PORT:-2010}  
-s -j jmeter-server.log "$@"
```

- c) After making the above changes, execute JMeter-server on all the slaves

Now check your connection by executing telnet from master to slave on port no 2010
It should establish proper connection