

LTP Network Test

Pre-requisites :-

1. Enable all the networking services on both client & server machines (using yast2 or setup command).

Rshd,nfsd & fingerd must be running on both client & server

Configuration on Server :-

2. Verify for following daemon services running:

If not, install following rpms and start the services

- i. rpm -qa | grep rsh-server
- ii. rpm -qa | grep telnet-server
- iii. rpm -qa | grep finger-server
- iv. rpm -qa | grep rdist
- v. rpm -qa | grep rsync
- vi. rpm -qa | grep dhcp-server
- vii. rpm -qa | grep http-server

[Note: If any of the above daemon is not running on server, the test related to that service running from client will fail]

Enable services like:

Chkconfig [rsh/rlogin/telnet/finger/rexec/rwhod] on

Note : test from client whether rsh working:

```
# rsh <server-name> ls  
This should list all the files under "/root" on the server machine
```

2. Edit the "/root/.rhosts" file. Please note that the file may not exist, so you must create one if it does not. You must add the fully qualified hostname of the machine you are testing on to this file. By adding the test machine's hostname to this file, you will be allowing the machine to rsh to itself, as root, without the requirement of a password.

Copy .rhost into / directory of both client & server machines

3. vi /etc/securetty

add the following entries.

Rsh,rlogin,telnet,ftp

4. FTP setup:

i. In "/etc/ftpusers" [or vi /etc/vsftpd.ftpusers], comment the line containing "root" string. This file lists all those users who

are not given access to do ftp on the current system.

ii. If you don't want to do step (i), put following entry into /root/.netrc

```
machine <remote_server_name> login root password <remote_root_password>
```

Otherwise, ftp,rlogin & telnet fails for 'root' user & hence needs to be executed using 'test' user to get successful results.

5. NFS setup:
 - i. In “/etc/exports“, add the following:
/ <local_machine_ip>/255.255.255.0(rw,no_root_squash,sync)
 - ii. Then run “exportfs” to get a list of exported file system.
6. Restart xinetd:
/etc/init.d/xinetd restart

Running the Test(on Client side) :

7. Install ltp-full .. testsuite on both client and server in the same patch (say /root)

Then from client machine,

8. set the path for testcases
cd /root/ltp-full-.../
PATH=\$PATH:/root/ltp-full-.../testcases/bin
9. cd //root/ltp-full-.../testscripts/
Edit “networktests.sh” The RHOST variable name should be set to the hostname of the server and PASSWD should be set to the root password of the remote server.
Ex: RHOST=xxx.com
 PASSWD=test123
Also in the “networktests.sh”, the following line has to be appended after,
\${TMPDIR}//network.tests -s0 -l <logfile> -o <outfile> -p -q.
where :
-s0 -> run the test for infinite loop
-l -> ltpnetwork logfile name
-o -> ltpnetwork output file name
10. To run the test type the following:
./networktests.sh

Analysing the results:

Generally this test must be run more than 24 hours. When you want to stop the test press CTRL+C to stop ./networktests.sh.
Search failed tests in ltp-logfile using
grep FAIL <logfile> .
For any failures, run the individual tests and then try to come to the conclusion.