Linux Practical: nfs (Network File System) – 23rd July'2025

Main Command:

```
root@server:/home/servernfs                              _

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[root@server ~]# rpm -qa | grep nfs
nfs4-acl-tools-0.3.3-5.el6.i686
nfs-utils-lib-1.1.5-1.el6.i686
nfs-utils-1.2.2-7.el6.i686
[root@server ~]# ifconfig eth0
eth0      Link encap:Ethernet  HWaddr 00:0C:29:72:97:B7
          inet addr:192.168.0.0  Bcast:192.168.0.255  Mask:255.255.255.0
          inet6 addr: fe80::20c:29ff:fe72:97b7/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:93 errors:0 dropped:0 overruns:0 frame:0
          TX packets:32 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:8676 (8.4 KiB)  TX bytes:4860 (4.7 KiB)
          Interrupt:19 Base address:0x2000


[root@server ~]# cd /home/
[root@server home]# cd servernfs
[root@server servernfs]# cat>newfile1
Hello Guys..
^Z
[1]+  Stopped                 cat > newfile1
[root@server servernfs]# vi /etc/exports
[root@server servernfs]# service nfs restart
Shutting down NFS mountd:                                  [  OK  ]
Shutting down NFS daemon:                                  [  OK  ]
Shutting down NFS quotas:                                  [  OK  ]
Shutting down NFS services:                                [  OK  ]
Starting NFS services:  exportfs: No options for Hello Guyss!!: suggest Guyss!!
sync) to avoid warning
exportfs: Guyss!! has non-inet addr
exportfs: Guyss!! has non-inet addr
exportfs: No options for This is: suggest is(sync) to avoid warning
exportfs: is has non-inet addr
exportfs: is has non-inet addr
exportfs: No options for This me: suggest me(sync) to avoid warning
exportfs: me has non-inet addr
exportfs: me has non-inet addr
exportfs: No options for This Rimsha: suggest Rimsha(sync) to avoid warning
exportfs: Rimsha has non-inet addr
exportfs: Rimsha has non-inet addr
exportfs: No options for This :): suggest :)(sync) to avoid warning
exportfs: :) has non-inet addr
exportfs: :) has non-inet addr
                                                           [  OK  ]
Starting NFS quotas:                                       [  OK  ]
Starting NFS daemon:                                       [  OK  ]
Starting NFS mountd:                                       [  OK  ]
```
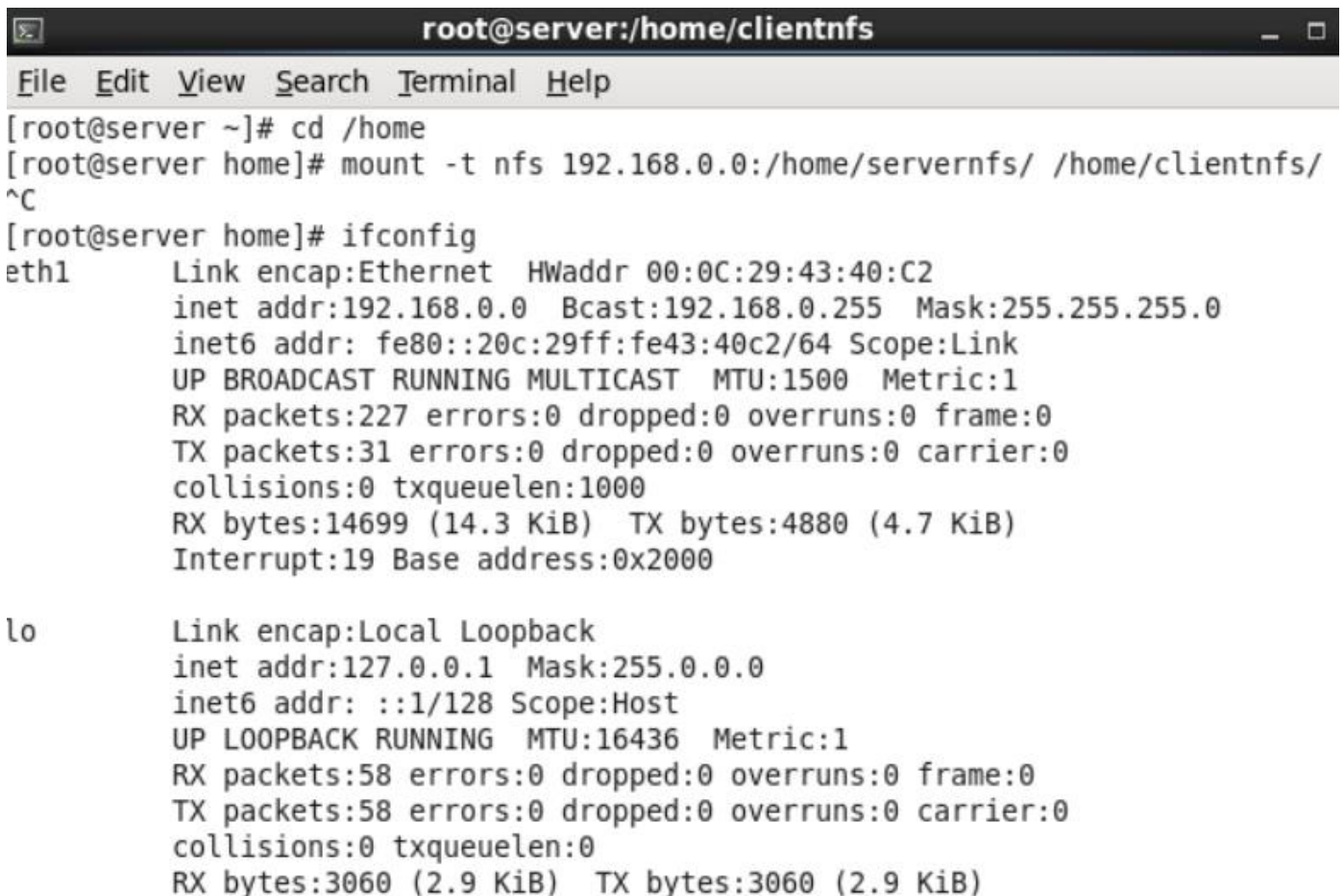
```
[root@server servernfs]# service iptables stop
iptables: Flushing firewall rules:                          [  OK  ]
iptables: Setting chains to policy ACCEPT: filter           [  OK  ]
iptables: Unloading modules:                                [  OK  ]
[root@server servernfs]# service iptables status
iptables: Firewall is not running.
[root@server servernfs]# showmount -e 192.168.0.0
Export list for 192.168.0.0:
/home/servernfs *
/home/Servernfs *
[root@server servernfs]# service vsftpd stop
Shutting down vsftpd:                                       [  OK  ]
[root@server servernfs]# service vsftpd status
vsftpd is stopped
[root@server servernfs]# chmod -R 777 /home/servernfs/
[root@server servernfs]# showmount -e 192.168.0.0
Export list for 192.168.0.0:
/home/servernfs *
/home/Servernfs *
```

Clone Command:

```
                    root@server:/home/clientnfs                    _  □

File  Edit  View  Search  Terminal  Help

[root@server ~]# cd /home
[root@server home]# mount -t nfs 192.168.0.0:/home/servernfs/ /home/clientnfs/
^C
[root@server home]# ifconfig
eth1      Link encap:Ethernet  HWaddr 00:0C:29:43:40:C2
          inet addr:192.168.0.0  Bcast:192.168.0.255  Mask:255.255.255.0
          inet6 addr: fe80::20c:29ff:fe43:40c2/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:227 errors:0 dropped:0 overruns:0 frame:0
          TX packets:31 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:14699 (14.3 KiB)  TX bytes:4880 (4.7 KiB)
          Interrupt:19 Base address:0x2000

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:58 errors:0 dropped:0 overruns:0 frame:0
          TX packets:58 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0
          RX bytes:3060 (2.9 KiB)  TX bytes:3060 (2.9 KiB)
```

```
[root@server home]# service network restart
Shutting down loopback interface:                          [  OK  ]
Bringing up loopback interface:                            [  OK  ]
Bringing up interface Wired_connection_1:  Active connection state: activated
Active connection path: /org/freedesktop/NetworkManager/ActiveConnection/1
                                                           [  OK  ]
[root@server home]# ifconfig
eth1      Link encap:Ethernet  HWaddr 00:0C:29:43:40:C2
          inet addr:192.168.10.6  Bcast:192.168.10.255  Mask:255.255.255.0
          inet6 addr: fe80::20c:29ff:fe43:40c2/64 Scope:Link
          UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1
          RX packets:275 errors:0 dropped:0 overruns:0 frame:0
          TX packets:45 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:1000
          RX bytes:21150 (20.6 KiB)  TX bytes:8121 (7.9 KiB)
          Interrupt:19 Base address:0x2000

lo        Link encap:Local Loopback
          inet addr:127.0.0.1  Mask:255.0.0.0
          inet6 addr: ::1/128 Scope:Host
          UP LOOPBACK RUNNING  MTU:16436  Metric:1
          RX packets:62 errors:0 dropped:0 overruns:0 frame:0
          TX packets:62 errors:0 dropped:0 overruns:0 carrier:0
          collisions:0 txqueuelen:0

[root@server home]# mount -t nfs 192.168.10.5:/home/servernfs/ /home/clientnfs/
[root@server home]# cd clientnfs
[root@server clientnfs]# ls
newfile   newfile1   tybsc
[root@server clientnfs]# cat newfile1
^C
[root@server clientnfs]# ls
newfile   newfile1   tybsc
[root@server clientnfs]# vi newfile
```
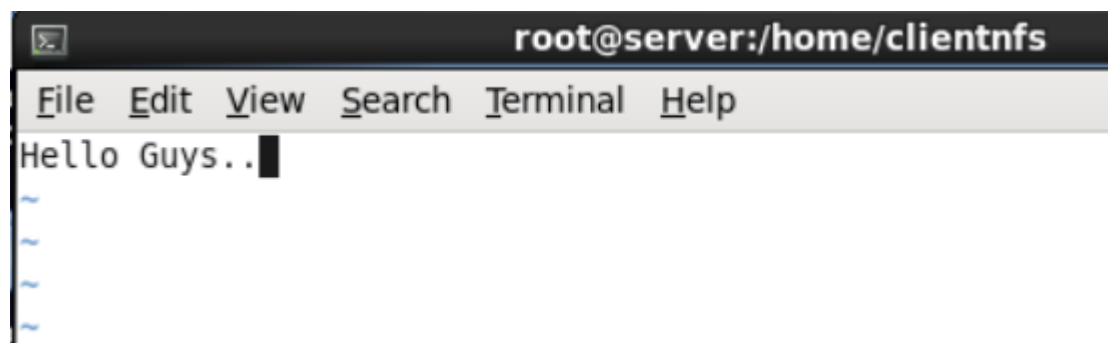
Output: