

Adding a 10GbE Interface on Ethernet-3 for an M4 Node

Command Format:

udstask setnodeip -port <port> -ip <ip> -gw <gateway> -mask <subnetmask>

(NOTE: Eth3 = Port 4)

Command:

udstask setnodeip -port 4 -ip 3.114.236.61 -gw 3.114.236.1 -mask 255.255.252.0

Steps for CDS Node (M4 Only)

1. Run: 'ip rule add from all lookup main priority 199'
2. cd /home/debug
3. vi act_network_custom.sh
 - a. i
 - b. ip route del default via 3.114.236.1 dev eth0 (NOTE: Use the default GW Address)
 - c. ip route add default via 3.114.236.1 dev eth3
 - d. ESC
 - e. wq
4. chmod 755 act_network_custom.sh NOTE: This command will make the shell script executable.
5. sh act_network_custom.sh

Verify that the default Gateway is over Eth3:

1. ip route get 8.8.8.8

```
[11:41:18] actfbula:/home/debug # ip route get 8.8.8.8
8.8.8.8 via 3.114.236.1 dev eth3 src 3.114.236.49
cache ntu 1500 advanss 1460 hoplimit 64
```

2. ip route show all

```
[11:41:10] actfbula:/home/debug # ip route show all
3.114.236.0/22 dev eth0 proto kernel scope link src 3.114.236.33
3.114.236.0/22 dev eth3 proto kernel scope link src 3.114.236.49
default via 3.114.236.1 dev eth3
```

3. Have the customer ping test everything to ensure everything responds
4. df

```
[11:41:27] actfbula:/home/debug # df
Filesystem      1K-blocks    Used Available Use% Mounted on
rootfs          6046468    483260  5256060   9% /
/dev/nd2p1      6046468    483260  5256060   9% /
tmpfs           2048        296     1752   15% /dev
/dev/nd2p6      1511856    55960   1379096   4% /data
/dev/nd2p2      2519792    300076  2091716  13% /compass
/dev/nd2p8      1007896    42032   913864   5% /uar
/dev/nd2p7      146149952  1563676 137162276  2% /dumps
/dev/nd2p9      10079084   187480  9379604   2% /tmp
/dev/nd2p3      6047492   143040  5596452   3% /home
/dev/nd2p4      13103024   457984 11979440   4% /opt
/dev/nd2p5      5039616   141080  4642536   3% /upgrade
/dev/nd2p11     1032088    34056   945604   4% /uar/log/audit
/dev/nd2p10     2064208   1015392  943960   52% /act
none            06550776     0  06550776   0% /dev/shm
/dev/sda2       33261360   215604  31356156   1% /hdata1
/dev/sdb2       33261360   180104  31391656   1% /hdata2
tmpfs           2048        416     1632   21% /mnt/ecnon
/dev/loop6     103210972 1137264  96830896   2% /act/pg
```

5. mount -o rw,remount /opt (NOTE: We are going to make changes to files in the "/opt" folder, so we need to remount it with Read/Write privileges.)
6. cd /opt/act/sbin
7. vi act_network_rules.sh
 - a. G (shift g) (i.e.- Moves us to the end of the file.)
 - b. o (i.e.- Opens a new line under the current line and enters into "insert" mode)
 - c. #Added by <insert your name> on <date/time>
 - d. # Description – Adding the 10GB Network Interface to Eth3
 - e. ip rule add from all lookup main priority 199
 - f. ESC
 - g. wq
8. cd /etc/init.d/
9. ../compass_funcs (NOTE: dot space dot forward-slash compass_func)
10. inst_sum opt / data (NOTE: We must generate a new check sum for "/opt" after the changes or the system will not boot as the old checksum will not match with the new changes.)
11. cd /data
12. ls -lrt
13. Verify that the file "opt.sum_install" is shown and has a time stamp with the current date and time. This is verifying that the new check sum was generated and placed in the "opt.sum_install" file.
14. mount -o ro,remount /opt (NOTE: Now we must remount the "/opt" folder as "Read Only.")

```

[11:44:11] actfb01a:/opt/act/sbin # cd /etc/init.d/
[11:44:45] actfb01a:/etc/init.d # ls
actclustermgr          cnaon          functions      iscsi          monit.cover    plfs           sendmail        tcsh
actclustermgr.cover   compass_funcs  fuseudisk.cover iscsid         n2nd.cover     portreserve    single          techport
actifio-fake-service  compass_start.init halt           kdump         named          postfix        slpd           test_script.init
actifio-fake-service2 cron           httpd         killall       netconsole     rdisc          smartd         udev-post
adhd.cover            cron           internal_sshd  lsm2-lsmetad  netfs          restorecond    snmpd.xx       udpnqd.cover
arptables_jf          dhcpcd        iptables      lsm2-monitor  network        rngd           snmptpd
auditd                dhcpcd6       ipmi          ncllogd       ntpd           rsyslog        sshd
blk-availability     dhcrelay      ipmiemd      ndaemonitor   ntpdate        sandbox        syslog
boot                  ecmonitor     iptables      nonit         ond.cover     sasauthd       sysstat
[11:44:50] actfb01a:/etc/init.d # ../compass_funcs
[11:46:22] actfb01a:/etc/init.d # inst_sum opt / data
/etc/init.d
[11:47:23] actfb01a:/etc/init.d # cd /data

```

```

[11:47:35] actfbv1a:/data # ls -lrt
total 1232
drwx----- 2 root    root    16384 Feb 22 08:30 lost+found
drwxr-xr-x  2 webadmin webadmin 4096 Feb 22 08:32 html
----- 1 root    root    512 Feb 22 08:39 identity
-rw-r--r--  1 root    root    17 Feb 22 08:39 sda.sum_install
lrwxrwxrwx  1 root    root    14 Feb 22 08:39 race -> /compass/race1
-rw-r--r--  1 root    root    15 Feb 22 08:57 ipAddressS
drwxr-xr-x  2 root    root    4096 Feb 22 09:23 auth
lrwxrwxrwx  1 root    root    28 Feb 22 09:24 suc_config.xml -> /data/compass/suc_config.xml
-rw-r--r--  1 root    root    1974 Feb 22 09:24 bin.sum_install
-rw-r--r--  1 root    root    61004 Feb 22 09:24 lib.sum_install
-rw-r--r--  1 root    root    10676 Feb 22 09:24 lib64.sum_install
-rw-r--r--  1 root    root    4573 Feb 22 09:24/sbin.sum_install
-rw-r--r--  1 root    root    73 Feb 22 09:24 boot.sum_install
-rw-r--r--  1 root    root    216 Feb 22 09:24 root.sum_install
-rw-r--r--  1 root    root    93735 Feb 22 09:24 usr.sum_install
-rw-r--r--  1 root    root    863684 Feb 22 09:25 compass.sum_install
drwxr-xr-x  2 root    root    4096 Feb 22 09:25 compass
-rw-r--r--  1 root    root    13 Mar 24 04:49 ipAddress
drwxr-xr-x  3 root    root    4096 Mar 24 04:52 act
-rw-r--r--  1 root    root    0 Mar 24 10:34 race_nq_log.txt
pru----- 1 root    root    0 Mar 24 18:34 rtcracecli
-rw-r--r--  1 root    root    0 Mar 24 18:34 icurl
lrwxrwxrwx  1 root    root    26 Mar 24 18:34 ibnfsue.cat -> /compass/ibnfsue.en_US.cat
lrwxrwxrwx  1 root    root    26 Mar 24 18:34 ibnfsue.msg -> /compass/ibnfsue.en_US.msg
lrwxrwxrwx  1 root    root    22 Mar 24 18:34 clihelp -> /compass/clihelp/en_US
-rw-r--r--  1 root    root    5358 Mar 24 18:34 upd_node.old
drwxr-x--x  4 cinom   webadmin 4096 Mar 24 18:35 cinom
drwxr-xr-x  6 root    root    4096 Mar 24 18:35 etc
-rw-r--r--  1 root    root    14981 Mar 26 15:17 etc.sum_install
-rw-r--r--  1 root    root    1024 Mar 27 10:30 upd_cluster
-rw-r--r--  1 root    root    5376 Mar 27 10:30 upd_node
-rw-r--r--  1 root    root    4858 Mar 27 10:30 upd_node.00000002
lrwxrwxrwx  1 root    root    9 Mar 27 10:54 pdpa2 -> /dev/sda4
lrwxrwxrwx  1 root    root    9 Mar 27 10:54 pdpa1 -> /dev/sda3
lrwxrwxrwx  1 root    root    9 Mar 27 10:54 pdpb2 -> /dev/sdb4
lrwxrwxrwx  1 root    root    9 Mar 27 10:54 pdpb1 -> /dev/sdb3
-rw-r--r--  1 root    root    238 Mar 27 10:54 ec_slotinfo
-rw-r--r--  1 root    root    238 Mar 27 10:54 ec_slotinfo.old
-rw-r--r--  1 root    root    0 Mar 27 10:55 encrypt_usb.available
-rw-r--r--  1 root    root    94241 Mar 27 11:47 opt.sum_install
[11:47:46] actfbv1a:/data #

```