Display Ethernet Properties

mininet@mininet-vm:~\$ lspci | egrep -i --color 'network|ethernet' 00:03.0 Ethernet controller: Intel Corporation 82540EM Gigabit Ethernet Controller (rev 02) 00:08.0 Ethernet controller: Intel Corporation 82540EM Gigabit Ethernet Controller (rev 02) mininet@mininet-vm:~\$

Mininet Ethernet Properties

mininet@mininet-vm:~\$

mininet@mininet-vm:~\$ ethtool -i eth0

driver: e1000

version: 7.3.21-k8-NAPI firmware-version: bus-info: 0000:00:03.0 supports-statistics: yes supports-test: yes supports-eeprom-access: yes supports-register-dump: yes supports-priy-flags: no

Display OPEN BSD Network and Ethernet Parameters

[Group6@group6d ~]\$ ssh -X root@192.168.116.101 root@192.168.116.101's password: X11 forwarding request failed on channel 0 Last login: Tue Apr 29 02:13:57 2014 from 192.168.116.1 OpenBSD 5.4 (GENERIC) #37: Tue Jul 30 12:05:01 MDT 2013

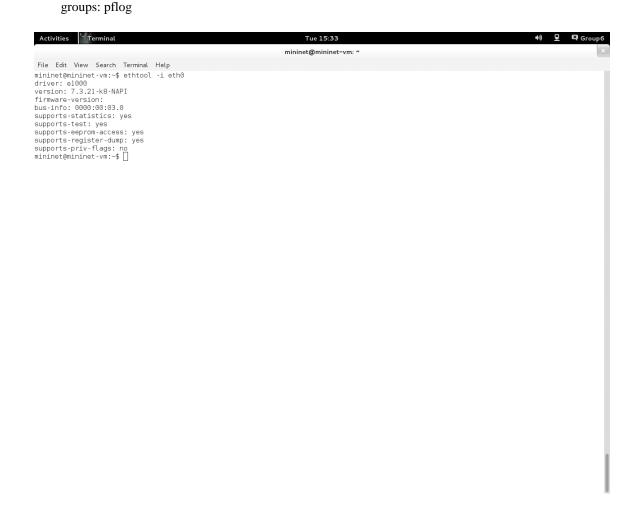
Welcome to OpenBSD: The proactively secure Unix-like operating system.

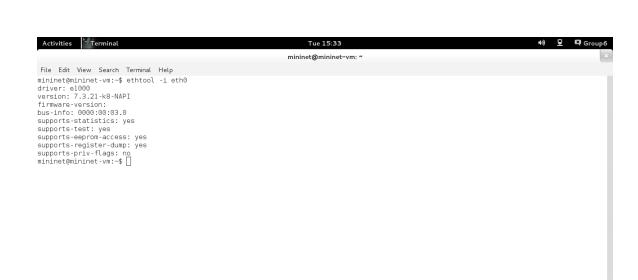
Please use the sendbug(1) utility to report bugs in the system. Before reporting a bug, please try to reproduce it with the latest version of the code. With bug reports, please try to ensure that enough information to reproduce the problem is enclosed, and if a known fix for it exists, include that as well.

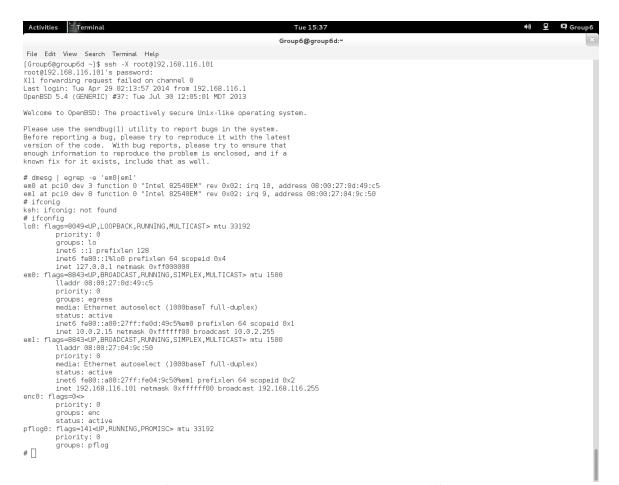
```
# dmesg | egrep -e 'em0|em1'
em0 at pci0 dev 3 function 0 "Intel 82540EM" rev 0x02: irq 10, address 08:00:27:0d:49:c5
em1 at pci0 dev 8 function 0 "Intel 82540EM" rev 0x02: irq 9, address 08:00:27:04:9c:50
# ifconig
ksh: ifconig: not found
# ifconfig
lo0: flags=8049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 33192
    priority: 0
    groups: lo
    inet6 ::1 prefixlen 128
    inet6 fe80::1%lo0 prefixlen 64 scopeid 0x4
    inet 127.0.0.1 netmask 0xff000000
em0: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    lladdr 08:00:27:0d:49:c5
    priority: 0
```

groups: egress media: Ethernet autoselect (1000baseT full-duplex) status: active inet6 fe80::a00:27ff:fe0d:49c5%em0 prefixlen 64 scopeid 0x1 inet 10.0.2.15 netmask 0xffffff00 broadcast 10.0.2.255 em1: flags=8843<UP,BROADCAST,RUNNING,SIMPLEX,MULTICAST> mtu 1500 lladdr 08:00:27:04:9c:50 priority: 0 media: Ethernet autoselect (1000baseT full-duplex) status: active inet6 fe80::a00:27ff:fe04:9c50%em1 prefixlen 64 scopeid 0x2 inet 192.168.116.101 netmask 0xffffff00 broadcast 192.168.116.255 enc0: flags=0<> priority: 0 groups: enc status: active pflog0: flags=141<UP,RUNNING,PROMISC> mtu 33192

priority: 0







Where do these versions of Linux (note that the desktop and VM might be different) and OpenBSD store the information for configuring the network adapters at boot time, i.e., what files should be modified for making permanent changes?

The files in the Linux can be modified in the network.

The files in the Mininet can be modified in network folder which is under etc which is in the mininet directory.

The files in the openBSD are modified at em0 and em1.