

TP2

1)

grave	syl
<pre> 3.990634] floppy: error -5 while reading block 0 4.024270] parport_pc 00:03: reported by Plug and Play ACPI 4.028175] parport0: PC-style at 0x378, irq 7 [PCSP, TRISTATE] 4.037787] sd 0:0:0:0: Attached scsi generic sg0 type 0 4.039288] sd 0:0:1:0: Attached scsi generic sg1 type 0 4.047832] [drm] Initialized drm 1.1.0 20060810 4.050168] sr 1:0:0:0: Attached scsi generic sg2 type 5 4.054487] input: PC Speaker as /devices/platform/pcspkr/input/input5 4.168163] random: nonblocking pool is initialized 4.170270] intel_powerclamp: No package C-state available 4.172670] ppdev: user-space parallel port driver 4.247550] [drm] Found bochs VGA, ID 0xb0c5 4.247550] [drm] Framebuffer size 16384 kB 4.252209] [TTM] Zone kernel: Available graphics memory: 94428 KiB 4.252209] [TTM] Initializing pool allocator 4.252213] [TTM] Initializing DMA pool allocator 4.346212] fbcon: bochsdrmfb (fb0) is primary device 4.361224] Console: switching to colour frame buffer device 128x48 4.364370] bochs-drm 0000:00:02.0: fb0: bochs-drm frame buffer device 4.366911] [drm] Initialized bochs-drm 1.0.0 20130925 for 0000:00:02.0 on m0 </pre>	<pre> 4.067009] floppy: error -5 while reading block 0 4.083271] parport_pc 00:03: reported by Plug and Play ACPI 4.085299] parport0: PC-style at 0x378, irq 7 [PCSP, TRISTATE] 4.126467] sd 0:0:0:0: Attached scsi generic sg0 type 0 4.132524] input: PC Speaker as /devices/platform/pcspkr/input/input5 4.136558] sd 0:0:1:0: Attached scsi generic sg1 type 0 4.142495] sr 1:0:0:0: Attached scsi generic sg2 type 5 4.145578] [drm] Initialized drm 1.1.0 20060810 4.213218] intel_powerclamp: No package C-state available 4.230946] [drm] Found bochs VGA, ID 0xb0c5 4.232688] [drm] Framebuffer size 16384 kB @ 0xfd000000, mmio @ 0xfefb0000 4.243939] [TTM] Zone kernel: Available graphics memory: 94428 KiB 4.245841] [TTM] Initializing pool allocator 4.248411] [TTM] Initializing DMA pool allocator 4.251887] fbcon: bochsdrmfb (fb0) is primary device 4.273292] Console: switching to colour frame buffer device 128x48 4.284566] bochs-drm 0000:00:02.0: fb0: bochsdrmfb frame buffer device 4.293388] [drm] Initialized bochs-drm 1.0.0 20130925 for 0000:00:02.0 on m0 4.303530] random: nonblocking pool is initialized 4.308480] ppdev: user-space parallel port driver </pre>
Debian GNU/Linux bullseye/sid grave ttyS0	Debian GNU/Linux bullseye/sid syl ttyS0
grave login: █	syl login: █
<pre> 4.254450] sr 1:0:0:0: Attached scsi generic sg2 type 5 4.259064] intel_powerclamp: No package C-state available 4.274382] [drm] Found bochs VGA, ID 0xb0c5 4.275850] [drm] Framebuffer size 16384 kB 4.285225] [TTM] Zone kernel: Available graphics memory: 94428 KiB 4.287231] [TTM] Initializing pool allocator 4.288505] [TTM] Initializing DMA pool allocator 4.304962] fbcon: bochsdrmfb (fb0) is primary device 4.339076] Console: switching to colour frame buffer device 128x48 4.343832] bochs-drm 0000:00:02.0: fb0: bochsdrmfb frame buffer device 4.349666] ppdev: user-space parallel port driver 4.352995] [drm] Initialized bochs-drm 1.0.0 20130925 for 0000:00:02.0 on m0 4.371522] random: nonblocking pool is initialized </pre>	<pre> eth0: flags=4098<BROADCAST,MULTICAST> mtu 1500 ether aa:aa:aa:aa:00:00 txqueuelen 1000 (Ethernet) RX packets 0 bytes 0 (0.0 B) RX errors 0 dropped 0 overruns 0 frame 0 TX packets 0 bytes 0 (0.0 B) TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0 lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536 inet 127.0.0.1 netmask 255.0.0.0 inet6 ::1 prefixlen 128 scopeid 0x10<host> loop txqueuelen 1 (Local Loopback) RX packets 40 bytes 2720 (2.6 KiB) RX errors 0 dropped 0 overruns 0 frame 0 TX packets 40 bytes 2720 (2.6 KiB) TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0 </pre>
Debian GNU/Linux bullseye/sid opeth ttyS0	root@immortal:~# █
opeth login: █	

2)

```

root@immortal:~# ifconfig -a
eth0: flags=4098<BROADCAST,MULTICAST> mtu 1500
    ether aa:aa:aa:aa:00:00 txqueuelen 1000 (Ethernet)
    RX packets 0 bytes 0 (0.0 B)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 0 bytes 0 (0.0 B)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING> mtu 65536
    inet 127.0.0.1 netmask 255.0.0.0
    inet6 ::1 prefixlen 128 scopeid 0x10<host>
    loop txqueuelen 1 (Local Loopback)
    RX packets 40 bytes 2720 (2.6 KiB)
    RX errors 0 dropped 0 overruns 0 frame 0
    TX packets 40 bytes 2720 (2.6 KiB)
    TX errors 0 dropped 0 overruns 0 carrier 0 collisions 0

root@immortal:~# █

```

3)

réseau : 192.168.0.0

masque:255.255.255.0

adresse min:192.168.0.1

adresse max:192.168.0.254

→ plage de 254

4)

5)

```
root@immortal:~# ping 192.168.0.1
PING 192.168.0.1 (192.168.0.1) 56(84) bytes of data.
64 bytes from 192.168.0.1: icmp_seq=1 ttl=64 time=0.013 ms
root@syl:~# ping 192.168.0.2
PING 192.168.0.2 (192.168.0.2) 56(84) bytes of data.
64 bytes from 192.168.0.2: icmp_seq=1 ttl=64 time=0.019 ms
root@grave:~# ping 192.168.0.3
PING 192.168.0.3 (192.168.0.3) 56(84) bytes of data.
64 bytes from 192.168.0.3: icmp_seq=1 ttl=64 time=0.024 ms
root@opeth:~# ping 192.168.0.4
PING 192.168.0.4 (192.168.0.4) 56(84) bytes of data.
64 bytes from 192.168.0.4: icmp_seq=1 ttl=64 time=0.025 ms
```

6)

```
root@immortal:~# tcpdump -i eth0
[ 419.171221] device eth0 entered promiscuous mode
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), capture size 262144 bytes
root@syl:~# tcpdump -i eth0
[ 247.473819] device eth0 entered promiscuous mode
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), capture size 262144 bytes
root@grave:~# tcpdump -i eth0
[ 248.486683] device eth0 entered promiscuous mode
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), capture size 262144 bytes
root@opeth:~# tcpdump -i eth0
[ 249.437560] device eth0 entered promiscuous mode
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), capture size 262144 bytes
```

7)

```

root@immortal:~# ping 192.168.0.5
PING 192.168.0.5 (192.168.0.5) 56(84) bytes of data.
From 192.168.0.1 icmp_seq=1 Destination Host Unreachable
From 192.168.0.1 icmp_seq=2 Destination Host Unreachable
From 192.168.0.1 icmp_seq=3 Destination Host Unreachable
^C
--- 192.168.0.5 ping statistics ---
5 packets transmitted, 0 received, +3 errors, 100% packet loss, time 4025ms
pipe 3
root@immortal:~# ping 192.168.0.6
PING 192.168.0.6 (192.168.0.6) 56(84) bytes of data.
From 192.168.0.1 icmp_seq=1 Destination Host Unreachable
From 192.168.0.1 icmp_seq=2 Destination Host Unreachable
From 192.168.0.1 icmp_seq=3 Destination Host Unreachable
^C
--- 192.168.0.6 ping statistics ---
4 packets transmitted, 0 received, +3 errors, 100% packet loss, time 3005ms
pipe 4
root@immortal:~#

[ 138.088214] IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
[ 138.088684] IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready
root@syl:~# tcpdump -i eth0
[ 247.473819] device eth0 entered promiscuous mode
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), capture size 262144 bytes
11:40:48.809595 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:49.807869 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:50.808427 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:51.825559 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:52.823344 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:53.823624 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:41:32.472131 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:33.471612 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:34.471582 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:35.477145 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:36.475932 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:37.475933 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
root@grave:~# ifconfig eth0 192.168.0.3/24
[ 139.624605] IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
root@grave:~# [ 139.627630] et1000: eth0 NIC Link is Up 1000 Mbps Full Duplex, X
[ 139.628519] IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready

root@grave:~# tcpdump -i eth0
[ 248.486883] device eth0 entered promiscuous mode
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), capture size 262144 bytes
11:40:48.809595 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:49.807869 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:50.808427 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:51.825559 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:52.823344 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:53.823624 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:41:32.472440 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:33.471930 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:34.471915 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:35.477432 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:36.475988 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:37.475930 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46

Debian GNU/Linux comes with ABSOLUTELY NO WARRANTY, to the extent
permitted by applicable law.
root@opeth:~# ifconfig eth0 192.168.0.4/24
[ 140.973971] IPv6: ADDRCONF(NETDEV_UP): eth0: link is not ready
root@opeth:~# [ 140.977012] et1000: eth0 NIC Link is Up 1000 Mbps Full Duplex, X
[ 140.977315] IPv6: ADDRCONF(NETDEV_CHANGE): eth0: link becomes ready

root@opeth:~# tcpdump -i eth0
[ 249.457580] device eth0 entered promiscuous mode
tcpdump: verbose output suppressed, use -v or -vv for full protocol decode
listening on eth0, link-type EN10MB (Ethernet), capture size 262144 bytes
11:40:48.833855 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:49.833828 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:50.834198 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:51.851572 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:52.849469 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:40:53.849788 ARP, Request who-has 192.168.0.5 tell 192.168.0.1, length 46
11:41:32.498305 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:33.497760 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:34.497777 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:35.503282 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:36.501850 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:37.501764 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46

```

8)

```

--- 192.168.0.5 ping statistics ---
5 packets transmitted, 0 received, +3 errors, 100% packet loss, time 4025ms
pipe 3
root@immortal:~# ping 192.168.0.6
PING 192.168.0.6 (192.168.0.6) 56(84) bytes of data.
From 192.168.0.1 icmp_seq=1 Destination Host Unreachable
From 192.168.0.1 icmp_seq=2 Destination Host Unreachable
From 192.168.0.1 icmp_seq=3 Destination Host Unreachable
^C
--- 192.168.0.6 ping statistics ---
4 packets transmitted, 0 received, +3 errors, 100% packet loss, time 3005ms
pipe 4
root@immortal:~# ping 192.168.0.255
ping: Do you want to ping broadcast? Then -b. If not, check your local firewalls
root@immortal:~# -b
-bash: -b: command not found
root@immortal:~# ping 192.168.0.255 -b
WARNING: pingng broadcast address
PING 192.168.0.255 (192.168.0.255) 56(84) bytes of data.
^C
--- 192.168.0.255 ping statistics ---
17 packets transmitted, 0 received, 100% packet loss, time 16128ms
root@immortal:~#

11:41:32.472440 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:33.471930 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:34.471915 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:35.477432 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:36.475988 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:37.475930 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:53:41.041572 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:42.050195 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:43.058161 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:44.065460 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:45.074137 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:46.081749 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:47.090096 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:48.097779 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:49.106086 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:50.114412 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:51.122108 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:52.130081 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:53.138101 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:54.146145 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:55.154595 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:56.162070 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:57.170162 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4

11:41:32.498305 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:33.497760 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:34.497777 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:35.503282 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:36.501850 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:41:37.501764 ARP, Request who-has 192.168.0.6 tell 192.168.0.1, length 46
11:53:41.067523 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:42.076553 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:43.083815 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:44.092292 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:45.099332 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:46.107611 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:47.115940 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:48.123844 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:49.131393 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:50.139870 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:51.147966 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:52.155958 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:53.163999 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:54.171974 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:55.180031 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:56.187361 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4
11:53:57.196003 IP 192.168.0.1 > 192.168.0.255: ICMP echo request, id 587, seq 4

```

Les requetes ne sont reçues que par les 3 autres machines. Elles y répondent toute.

```

root@syl:~# ping 192.168.0.255 -b
WARNING: pingng broadcast address
PING 192.168.0.255 (192.168.0.255) 56(84) bytes of data.
^C
root@opeth:~# ping 192.168.0.255 -b
WARNING: pingng broadcast address
PING 192.168.0.255 (192.168.0.255) 56(84) bytes of data.
^C
root@grave:~# ping 192.168.0.255 -b
WARNING: pingng broadcast address
PING 192.168.0.255 (192.168.0.255) 56(84) bytes of data.
^C

```

Cependant après avoir tester une deuxième fois plus rien ne répond, même après les avoir toutes ping individuellement.

```

root@immortal:~# ping 192.168.0.255 -b
WARNING: pinging broadcast address
PING 192.168.0.255 (192.168.0.255) 56(84) bytes of data.
64 bytes from 192.168.0.1: icmp_seq=1 ttl=64 time=0.012 ms
64 bytes from 192.168.0.4: icmp_seq=1 ttl=64 time=0.462 ms (DUPLICATE)
64 bytes from 192.168.0.2: icmp_seq=1 ttl=64 time=0.464 ms (DUPLICATE)
64 bytes from 192.168.0.3: icmp_seq=1 ttl=64 time=0.465 ms (DUPLICATE)
64 bytes from 192.168.0.1: icmp_seq=2 ttl=64 time=0.047 ms

```

après avoir fait la commande « `sysctl net.ipv4.icmp_echo_ignore_broadcasts=0` », immortal ping les 4 machines correctement.

9)

 **Impossible d'enregistrer le fichier « /etc/network/interfaces ».**
 Vous n'avez pas les permissions nécessaires pour enregistrer ce fichier. Vérifiez l'orthographe de votre emplacement et réessayez

```

1 #Autogénérer par script CREMI
2 #VERSION: 20180912_mtu_9000
3 #
4 auto lo
5 iface lo inet loopback
6
7 auto eth0
8 iface eth0 inet static
9     ethernet-wol g
10     mtu 9000
11     address    192.168.0.1
12     netmask    255.255.255.0
13     broadcast  192.168.0.255
14     gateway    192.168.0.254

```

la modification de fichier étant impossible je ne peux pas le tester mais voici la configuration.