

Re: link 2 linux boxes through rj45 c.o. cable

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- *From:* "heavytull" <heavytull@xxxxxxxxxxx>
 - *Date:* 21 Jul 2006 10:24:06 -0700
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Douglas Mayne wrote:

On Fri, 21 Jul 2006 08:49:17 -0700, heavytull wrote:

Douglas Mayne wrote:

On Fri, 21 Jul 2006 04:59:20 -0700, heavytull wrote:

heavytull wrote:

I would like to link two
linux boxes through their
ethernet cards with
a cross over cable.

/etc/rc.d/rc.inet1.conf on
both pc's have been
configured to get the
ethernet interface linked
with the ethernet card
working in DHCP mode.

<snip>

ps: on both boxes the
running linux is slackware
10.2

ok men, I might have badly told everything!

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the context:

there are two computers, one is equipped with an ethernet card and other stuff that actually is not useful now, so forget about wifi.

the other computer has also an ethernet card.

I would like link these boxes through by means of a cross over cable

(rj45) so that I can make some files transfers.

how should I proceed?

You are trying to create a two workstation network. That restates the obvious, but stop and think for a second. How would workstations on that isolated network get an IP address? You would have to setup a dhcp server. It takes more than making an entry in rc.inet1.conf.

calm down man; I'm not the one you should say that to!!

I'm calm.

Okay, forget about dhcp for now– here is another quicker method. You can setup each card manually.

i would prefer automatically anyway...

Then you'd need to setup dhcpd on that network. See below for more options.

Perhaps, you should run a killall on each workstation to stop the client, if it is running.

```
i ps -x |grep dhcpd
no dhcpd process running
```

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Okay.

```
On each box:  
# killall dhcpcd
```

```
Setup  
On box 1:  
ifconfig ethx 192.168.4.1
```

```
On box 2:  
ifconfig ethx 192.168.4.2  
ping -c3 192.168.4.1
```

```
On box 1:  
ping -c3 192.168.4.2
```

yes i did it and it is working fine!

Then you can transfer files between those two boxes, unless something is preventing you. Slackware comes with no firewall by default. A firewall would be blocking only if you'd set it up and enabled it.

above all it seems that the linux box which has also a wifi adapter bound together eth0 and eth1 to which is connected the wifi indeed samba is running on both machines and on the one which has no wifi i can see some computers on the whole network which is routed by a wifi hub.

it means that the data about the whole wifi network is redirected to the eth0!

but I can't access to any of the other machines. i don't know why ("could not connect to host for smb://mshome/"). i can't even ping to the eth1 of the computer equipped with wifi at this point i don't think that other machine can be seen on the whole network.

so there's a lot more to do, I even would like to set up ip masq for internet share.

why the linux box didn't assign an automatic ip address??

The secondary box might have automatically obtained an IP address if your first box was configured as a router in "bridged" mode. Read more below.

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I am assuming 192.168.4.0 is an unused subnet on you overall network.
Once that is working, you can worry about other settings to get the boxes communicating beyond this "private" line.

<snip>

Note: comments inline.

The simple case is getting the two boxes to talk to each other. I guess you have done that and can transfer files between the `_two_` boxes. If you want access beyond that, then that is more complicated. You'll need to setup one box as a router. There are two options for routers:

1. Routed mode which cross subnets
2. Bridged mode which uses the same subnet.

I think you may want to configure bridged mode to view other machines on you local network. Another option is to plug the computer into whatever network switches you have (eliminating the problem of configuring your Slackware box to do the same job.) You can probably do it either way, but you'll have to read up on networking first.

yes i need
thanks

—
Douglas Mayne