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How to bind a range of IP's in Debian / Ubuntu Linux

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Q. I've recently installed Debian Linux 4.0 on my server and Ubuntu Linux 7.04 on Laptop. I would love to have a multiple IP address that I can use for verity of purposes. I would like to bind 4 IP's to the 'eth0' device or NIC. How do I do that?

[1]

A.. Let us assume that your eth0 IP address is 192.168.1.1. You need to create alias or binding using eth0:0, eth0:1...eth0:N devices. You need to add range of IP's in /etc/network/interfaces config file under Debian/Ubuntu Linux. First make a backup of existing file:

```
# cp /etc/network/interfaces /root/working.interfaces
```

Now open file using vi text editor:

```
#vi /etc/network/interfaces
```

OR

```
$ sudo vi /etc/network/interfaces
```

Modify as follows:

```
auto eth0
auto eth0:0
auto eth0:1

iface eth0 inet static
address 192.168.1.1
netmask 255.255.255.248
gateway 192.168.1.254

iface eth0:0 inet static
address 192.168.1.2
netmask 255.255.255.248
gateway 192.168.1.254

iface eth0:1 inet static
address 192.168.1.3
netmask 255.255.255.248
gateway 192.168.1.254
# add rest of alias / binds below
```

Save and close the file.

Now restart networking, enter:

```
# /etc/init.d/networking restart
```

OR

```
$ sudo /etc/init.d/networking restart
```

Updated for accuracy.

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