NETWORKING

Google: Network Configuration

>ifconfig

Some devices: eth0, eth1, em0, wlan0,…

>ifconfig eth0 down (turn a device down)

>ifconfig eth up (turn a device up)

To temporary change the address of any card for the login session:

>ifconfig eth0 172.28.134.X netmask 255.255.255.0 (replace X with a specific value)

Default gateway:

>route add default GW 172.28.134.5

Check if the default gateway is already added to the routing table:

>ifconfig

>route

To assign a static address permanently (by default all system is configured with dhcp service)

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| --- | --- |
| Ubuntu  For dhcp service  >more /etc/network/interfaces  (auto eth0  Iface eth0 inet dhcp)  For static service  >nano /etc/network/interfaces  (change to:  iface eth0 inet static  address 172.28.134.X  netmask 255.255.255.0  gateway 172.28.134.5  dns-nameserver 8.8.8.8)  Restart network  >sudo /etc/init.d/networking restart  Or  >sudo service networking restart | Fedora  For dhcp service (by default)  >more /etc/sysconfig/network-scripts/ifcfg-eth0  For static service  >nano /etc/sysconfig/network-scripts/ifcfg-eth0  (change to:  DEVICE = eth0  BOOTPROTO = none  ONBOOT = yes  NETMASK = 255.255.255.0  IPADDR = 172.28.134.X  GATEWAY = 172.28.134.5  Restart network  >/ect/init.d/network restart |

Check your dns:

>more /etc/resolv.conf

Exercise:

1. Check your current network status, check routing table and dns server -🡪 ifconfig
2. Change network parameters temporarily -🡪 ifconfigx`
3. Assign static network parameter permanently
4. Choose a partner, using scp service, try to upload download files with that partner