Tools

The aims of this section is to help installing, configuring and using the NeCTAr software. Here are the hosts and addresses we use at the LPNHE:

- **CTA gedek server card**
  - When powered, and plugged the ethernet slot of the GEDEK server card should have green leds. If not the FPGA have to be re-programmed by Patrick Nayman.
  - Now we should be able to ping the GEDEK server card.

    ```
    address 192.168.1.18
    netmask 255.255.255.0
    ```

    Rq: this is not the Hess private network but a new one !
  - When the L1 trigger cable is powered using 500kH, the GEDEK server card will send data using eternet.
- **CTA lpnp506 client host**
  - partitions (this is a multiboot OS computer)

    ```
    sda1 Windows (ntfs)
    sda2 /boot (ext2)
    sda3 (swap)
    sda5 / Fedora (ext4) no good!
    sda6 / Debian (ext3)
    sda7 / ?
    sda8 / ?
    sdb1 /opt (fat32)
    ```

    * backup of the MBR

      `# dd if=/dev/sda of=/opt/mbr.bak bs=446 count=1`
    * backup of the */boot* partition

      `# tar -zcf /opt/boot.tgz /boot`
  - Public interface:
    rq: we put it in the public network in order to allow WINDOWS users to connect the CTA GEDEK server card remotly (windows don't understand well the routes).

    ```
    bellow with red led
    SysKonnect pci ethernet board
    module is skge

    hwaddr  00:E0:4C:00:D5:43
    address 192.168.1.181
    netmask 255.255.255.0
    ```
  - NeCTAr interface:

    ```
    above with green led
    intel pci ethernet board
    module is e100

    hwaddr  00:D0:B7:75:E5:D2
    address 134.158.155.191
    netmask 255.255.248.0
    gateway 134.158.152.1
    dns     134.158.152.146
    ```

rq: mother board ethernet card (module is 8139too) dosent' work (address mac is null). We disabled it from the bios. However, network was difficult to configure on every operating systems. We should have to use the `system-config-network` tool on FEDORA and the `network-admin` tool on DEBIAN to remove all configuration before.