

Installing NUT (Network UPS Tools) on Ubuntu 18.04 LTS

Original How-To URL: <https://zackreed.me/installing-nut-on-ubuntu/>

Install Nut

```
apt-get install nut
```

Edit /etc/nut/ups.conf

```
vi /etc/nut/ups.conf
```

Paste the foollowing at the bottom. Mine's an APC-1500, so I've set it to a recognizable name (apc-1500)

```
[apc-1500]  
driver = usbhid-ups  
port = auto
```

Create the following directories and reboot machine

```
mkdir /var/run/nut
```

```
chown root:nut /var/run/nut
```

```
chmod 770 /var/run/nut
```

Start NUT

```
upsdrvctl start
```

Should give the following output

```
Network UPS Tools - UPS driver controller 2.4.3  
Network UPS Tools - Generic HID driver 0.34 (2.4.3)  
USB communication driver 0.31  
Using subdriver: APC HID 0.95
```

Setup NUT to listen on Port 3493

```
vi /etc/nut/upsd.conf
```

Add the following lines where <IPADDRESS> is the IP of your machine

```
LISTEN 127.0.0.1 3493  
LISTEN :::1 3493  
LISTEN <IPADDRESS> 3493
```

Set the mode

Edit /etc/nut/nut.conf:

```
vi /etc/nut/nut.conf
```

Enter the following:

```
MODE=netserver
```

Start the network data server

```
upsd
```

Check the status

```
upsc apc-1500@localhost ups.status
```

Should output the following

```
0L
```

0L means your system is running On Line power. If you want to see all the info, try this instead

```
upsc apc-1500@localhost
```

Should output the following

```
...  
  
battery.charge: 100  
  
battery.charge.low: 10  
  
battery.charge.warning: 50  
  
battery.date: 2054/00/39  
  
battery.mfr.date: 2008/10/20  
  
---
```

Disable the beeper if needed

```
upscmd apc beeper.disable
```

Setup users to access the info and make changes.

```
vi /etc/nut/upsd.users
```

Add monitor master user and a monitor slave user for remote machines

```
[monuser]

    password = PASSWORD_REPLACE

    actions = SET FSD

    instcmds = ALL

    upsmon master

    # or upsmon slave

[monuserslave]

    password = slave

    upsmon slave
```

Reload upsd

```
upsd -c reload
```

Setup upsmon for our machine

```
vi /etc/nut/upsmon.conf
```

Paste the following

```
MONITOR apc-1500@localhost 1 local_mon PASSWORD_REPLACE master
```

Setup Nut in standalone mode

```
vi /etc/nut/nut.conf
```

Paste the following

```
MODE=standalone
```

```
Start NUT
```

```
service nut start
```

Setting up a Client (Slave) Computer

Install NUT

```
apt-get install nut
```

Edit /etc/nut/nut.conf

```
vi /etc/nut/nut.conf
```

Paste the following

```
MODE=netclient
```

Set your upsmon.conf to match the setup for your monuserslave above and the ip address of your master nut-server

```
vi /etc/nut/upsmon.conf
```

Paste the following where <IPADDRESS> is the ip of your NUT Server and <PASSWORD> is the password of your monuserslave password from above

```
MONITOR apc-1500@<IPADDRESS> 1 monuserslave <PASSWORD> slave
```

Restart your nut-client

```
service nut-client restart
```

Test with the following command where <IPADDRESS> is the IP of your NUT server

```
upsc apc-1500@<IPADDRESS>
```

Should output the following

```
Init SSL without certificate database
```

```
battery.charge: 100
```

```
battery.charge.low: 10
```

```
battery.charge.warning: 50
```

```
battery.date: 2054/00/39
```

```
battery.mfr.date: 2008/10/20
```

```
battery.runtime: 156
```

```
battery.runtime.low: 360
```

```
battery.type: PbAc
```

```
battery.voltage: 26.7
```

```
battery.voltage.nominal: 24.0
```

```
device.mfr: American Power Conversion
```

```
device.model: Back-UPS RS 1500 LCD
```

```
device.serial: 8B0843R44379
```

device.type: ups
driver.name: usbhid-ups
driver.parameter.pollfreq: 30
driver.parameter.pollinterval: 2
driver.parameter.port: auto
driver.version: 2.6.4
driver.version.data: APC HID 0.95
driver.version.internal: 0.37
input.sensitivity: medium
input.transfer.high: 139
input.transfer.low: 88
input.voltage: 122.0
input.voltage.nominal: 120
ups.beeper.status: disabled
ups.delay.shutdown: 20
ups.firmware: 839.H7 .D
ups.firmware.aux: H7
ups.load: 29
ups.mfr: American Power Conversion
ups.mfr.date: 2008/10/20
ups.model: Back-UPS RS 1500 LCD
ups.productid: 0002
ups.realpower.nominal: 865
ups.serial: 8B0843R44379

ups.status: OL LB

ups.test.result: No test initiated

ups.timer.reboot: 0

ups.timer.shutdown: -1

ups.vendorid: 051d

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