

# 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

```
OL
```

OL 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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Revision #3

Created 17 November 2020 19:31:28 by Dino Edwards

Updated 12 March 2022 18:02:25 by Dino Edwards