

Setting up a UPS with TrueNAS

TrueNAS supports monitoring UPS' using the open source [Network UPS Tool](#) (aka NUT). While they have done a good job of automating discovery, sometimes it is difficult to figure out which device is which when a UPS is plugged into a USB port.

Find UPS plugged into a USB port

The command

```
usbconfig
```

is your friend here. In this real life case, I found the Cyberpower PR1500 plugged in at ugen0.4.

```
ugen0.4: <CyberPower Systems PR1500LCDRTL2U> at usb0, cfg=0 md=HOST  
spd=LOW (1.5Mbps) pwr=ON (50mA)
```

It is on bus 0, port 4, so look for the direct link to that. It will either be called ugen* or uhid* in /dev

```
ls -ablph /dev/ugen* ; ls -ablph /dev/uhid*
```

This shows all entries named ugen* or uhid*, with the link that it actually points to.

```
lrwxr-xr-x  1 root  wheel      9B Nov 18 17:55 /dev/ugen0.4 -> usb/0.4.0
```

Services, then Actions for UPS

```
Identifier: anything you want  
UPS Mode: Master  
Driver: find something close. Fro my PR1500, I used s PR6000  
Port: auto  
Shutdown: UPS goes on battery  
Shutdown Timer: 600 (seconds, or 10 minutes)
```

Start and see if it works. Then, you can view the UPS with

```
upsc ups
```

where 'ups' is the name you chose as Identifier.

If it all appears to be working, put a check for Automatically start. NOTE: you can view some stats on the UPS under Reporting.

Track CPU Temperature (by core) `sysctl -a | grep temperature | grep cpu`

Power

```
ipmitool sensor | grep 'Power Meter' | cut -d'|' -f2 ; upsc ups | egrep 'ups.load|ups.realpower.nominal'
```

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