

# Power Outage Problems and Solutions: UPS NUT SERVER SETUP & WEBNUT UI with Docker

We have 1 ups so far.

```
root@rack2:~# lsusb
```

```
lsusb
```

```
Bus 002 Device 002: ID 8087:8002 Intel Corp. 8 channel internal hub
```

```
Bus 002 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
```

```
Bus 001 Device 004: ID 413c:a001 Dell Computer Corp. Hub
```

```
Bus 001 Device 005: ID 051d:0003 American Power Conversion UPS
```

```
Bus 001 Device 002: ID 8087:800a Intel Corp. Hub
```

```
Bus 001 Device 001: ID 1d6b:0002 Linux Foundation 2.0 root hub
```

```
root@rack2:~# sudo apt install nut nut-client nut-server
```

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```

```
root@rack2:~# sudo nut-scanner -U
```

```
sudo nut-scanner -U
```

Scanning USB bus.

```
[nutdev1]
```

```
driver = "usbhid-ups"
```

```
port = "auto"
```

```
vendorid = "051D"  
productid = "0003"  
product = "Smart-UPS SRT    FW:UPS 05.3 / ID=1010"  
serial = "AS1841190039"  
vendor = "American Power Conversion"  
bus = "001"
```

```
root@rack2:~# sudo cp /etc/nut/ups.conf /etc/nut/ups.example.conf
```

```
sudo cp /etc/nut/ups.conf /etc/nut/ups.example.conf
```

```
root@rack2:~# sudo nano /etc/nut/ups.conf
```

```
sudo nano /etc/nut/ups.conf
```

```
pollinterval = 1  
maxretry = 3  
  
[apc-ups]  
    driver = usbhid-ups  
    port = auto  
    desc = "APC Smart-UPS"  
    vendorid = 051D  
    productid = 0003  
    serial = AS1841110039
```

```
sudo nano /etc/nut/upsmon.conf
```

```
RUN_AS_USER root  
MONITOR apc-ups@localhost 1 admin secret master
```

```
sudo nano /etc/nut/upsd.conf
```

```
LISTEN 0.0.0.0 3493
```

```
sudo nano /etc/nut/nut.conf
```

```
MODE=netserver
```

```
sudo nano /etc/nut/upsd.users
```

```
[monuser]  
password = secret  
admin master
```

```
root@rack2:~# sudo service nut-server restart  
root@rack2:~# sudo service nut-client restart  
root@rack2:~# sudo systemctl restart nut-monitor  
root@rack2:~# sudo upsdrvctl stop  
root@rack2:~# sudo upsdrvctl start
```

```
sudo service nut-server restart  
sudo service nut-client restart  
sudo systemctl restart nut-monitor  
sudo upsdrvctl stop  
sudo upsdrvctl start
```

```
root@rack2:~# upsc apc-ups@localhost
```

```
upsc apc-ups@localhost
```

```
upsc apc-ups@localhost battery.charge
```

Now proceed to install client web ui on other machine:

here is the docker compose file:

```
services:
  nut:
    image: edgdl1er/webnut
    container_name: webnut
    environment:
      - UPS_HOST=your-host.local.lan
      - UPS_PORT=3493
      - UPS_USER=admin
      - UPS_PASSWORD=secret
    restart: unless-stopped
    security_opt:
      - no-new-privileges:true
    networks:
      - nginxproxymanager_default
    ports:
      - 6543:6543
networks:
  nginxproxymanager_default:
    external: true
```

## UPS Devices

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Search:

Name	Description	Status	Battery
<a href="#">apc-ups</a>	APC Smart-UPS	✓	99%

Showing 1 to 1 of 1 entries

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## APC Smart-UPS

Status: ✔  
Battery charge: 99%

### UPS Variables

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Search:

Name	Description	Value
battery.charge	Battery charge (percent of full)	99
battery.charge.low	Remaining battery level when UPS switches to LB (percent)	10
battery.charge.warning	Battery level when UPS switches to Warning state (percent)	50
battery.runtime	Battery runtime (seconds)	0
battery.runtime.low	Remaining battery runtime when UPS switches to LB (seconds)	150
battery.type	Battery chemistry	PbAc
battery.voltage	Battery voltage (V)	107.9
battery.voltage.nominal	Nominal battery voltage (V)	96.0
device.mfr	Description unavailable	American Power Conversion
device.model	Description unavailable	Smart-UPS SRT

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Next step is your programming still with nut client api that you are familiar with like nodejs:

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