

APC UPS Setup

How to set up UPS monitoring via USB, for APC UPS models.

1. Plug in the USB cable (dur)
2. Edit the UPS service in TrueNas:
 - 2.1: Choose USB driver with closest match to APC UPS model, and choose correct USB device (usually something like `/dev/ugenX.X`) and set UPS name to simply `ups`
 - 2.2: DO NOT check `Remote Monitor`
 - 2.3: Add Monitor user and password, copy same info into the `extra users` section in this format (note brackets!):

```
[{username}]  
[password = {password}  
[actions = set  
[actions = fsd  
[instcmds = all
```

2.4: Set shutdown to "UPS Reaches Low Battery", set command to: `shutdown -p +1`

`"System is shutting down due to low UPS battery! "`

2.5: DO NOT set up email alerts! (otherwise you get two sets for each event due to system alerting!)

2.6: Add `MAXAGE 25` to the "Auxiliary Parameters (upsd.conf)" box (prevents occasional 'connection to UPS lost' errors)

3. Enable the service!
4. Check box to auto-start service.

Checking UPS status and changing parameters remotely:

1. Check status of UPS (get all stats):

```
upsc ups@localhost
```

2. List commands that can be run from the terminal for a particular UPS:

```
upscmd -u [username] -p [password] -l ups@localhost
```

3. Run a command on a UPS:

```
upscmd -u [username] -p [password] ups@localhost command.name.here
```

Typical commands:

- test.start.battery.quick
 - test.start.battery.deep
 - test.start.battery.stop
 - beeper.disable
 - beeper.enable
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