

APC Smart-UPS & Network Shutdown overview



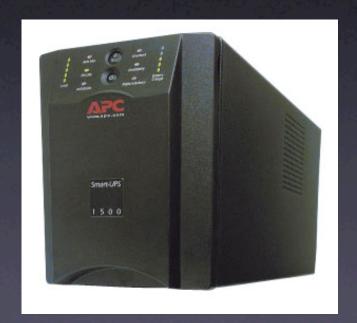
Goal

- Better power backup and graceful unattended shutdown capability for Mac servers during Library remodel
- Not depend on Library network being up during an outage



Hardware

- APC Smart-UPS 1500
 - approx. 24 mins at 50% load (480 Watts)
 - approx. 7 mins at 100% load (980 Watts)
 - \$430





Hardware

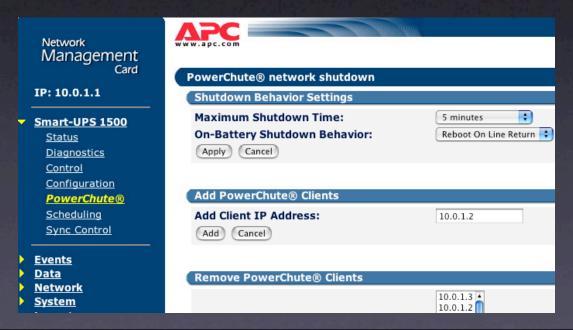
- 9617 Network Management Card
 - configure IP via network (DHCP), Windows Wizard, serial command console
 - access via web (SSL), telnet, SSH
 - \$220





Features

- Management card's Web GUI
 - Configure UPS settings, failure criteria and define PowerChute clients
 - Horribly slow with SSL enabled







Software



- APC PowerChute Network Shutdown 2.0
 - UPS signals clients via TCP/IP to gracefully shutdown during an outage
 - Installed in /usr/local/PowerChute, runs as a faceless Java process
 - Tries smooth shutdown first, then does hard shutdown if necessary
 - free
 - Hasn't been updated since 2002...





Software



- APC PowerChute Personal Edition 1.3.2
 - UPS signals clients via USB to gracefully shutdown during an outage
 - Tries smooth shutdown first, then does hard shutdown if necessary
 - System PreferencePane
 - Can be used in conjunction w/Network Shutdown on other clients
 - Free
 - Updated occasionally





Software



- APC Tracker 4.2.4 Equinux software
 - APC Tracker runs on clients, monitors UPS status and signals graceful shutdowns during outages.
 - Clients shut themselves down, not the UPS
 - Tries smooth shutdown first, then does hard shutdown if necessary
 - \$129/machine, volume discounts
 - Doesn't seem to do much that PNS doesn't do for free
 - Updated frequently

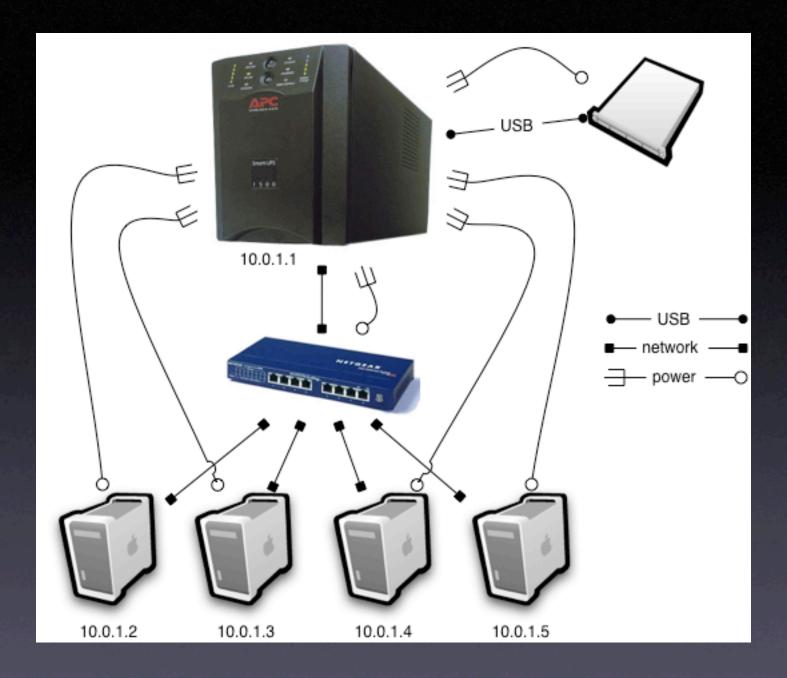




Our Setup

- Additional PCI ethernet card for each client
 - provides additional security
 - but breaks email notifications
- Netgear 8-port switch
 - Also powered by UPS
- Isolated network
- One Xserve connected to UPS via USB









Issues

- Can UPS tell clients to turn back on after outage?
- Scheduled startups?



Demo...

