

Midnight in the Garden of Good and Evil

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Credit

- ◆ significant parts excerpted from *CCS MicroNet: Past, Present, Future* presentation in progress by Jeff Carpenter, Microcomputer Network Administrator, CCS.
- ◆ title from book by John Berendt

Why NT?

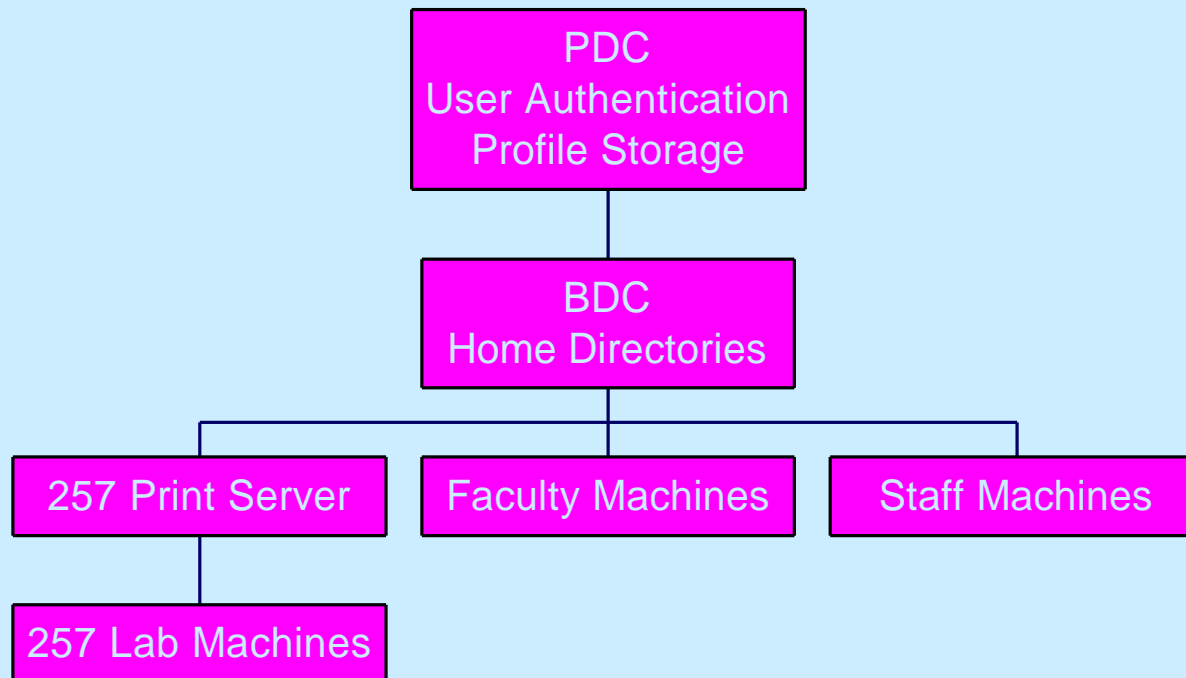
- ◆ NT was touted as being more robust/secure than 95 (and MS urged us to go this way)
- ◆ had sufficient resources & MS support for this effort
- ◆ Pressure to teach using latest GUI (textbooks already ordered)

Things Working Against Us

- ◆ had to deploy *fast*, sans reasonable documentation or testing time
- ◆ had to deploy in a hostile user environment
- ◆ had to deploy NT 4.0 before MS had shaken bugs out or ramped up their support
- ◆ little direct experience with NT prior to deploy (with small staff)
- ◆ initially did not use “master image” model, forcing modifications to be done by hand
- ◆ facilities in use almost all the time, had inadequate maintenance/repair access time

CCS MicroNet I

Network Topology (Single Domain)



MN1: Problems We Encountered (1)

- ◆ ab(users) and barricades
- ◆ user accounts
 - did not attempt UNIX integration or using painful GUI to enter 1200 accounts
 - attempt 1: sequence #'s
 - » file permissions & user training

MN1: Problems We Encountered (2)

- ◆ user accounts (cont.)
 - attempt 2: single login
 - » server performance/inconsistent machine state
 - » all “users” must be off to make changes
 - the Registry is **not** your friend
 - » poison pill
 - » lack of tools
- ◆ performance problems w/Mac services

CCS MicroNet I

◆ What Worked

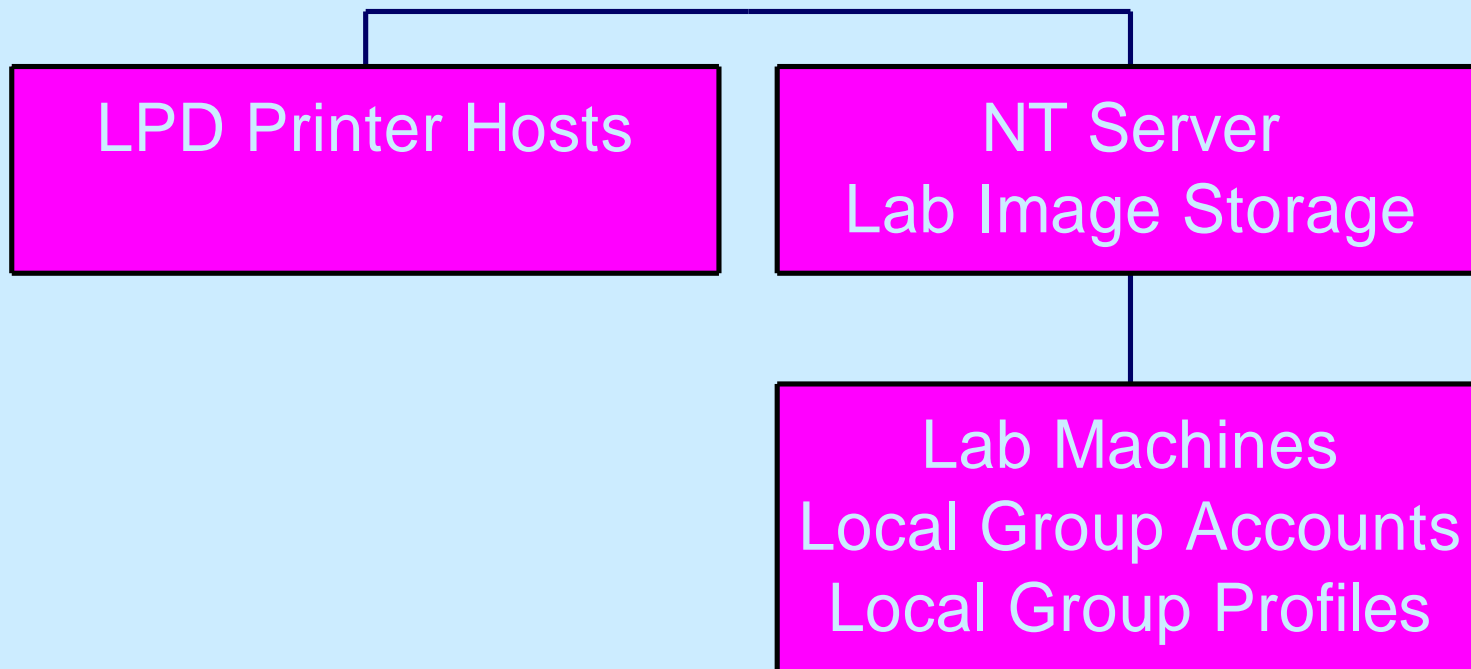
- Interactive Machine Building
- Local NT Printing Services
- Remote User Authentication

◆ What Didn't Work

- Non-Lab Printers
- Remote Profile Access (slow)
- Automated Machine Building/Re-Building
- Automated Software Updating

CCS MicroNet II

Network Topology (NT Workgroup)



CCS MicroNet II

◆ What Worked

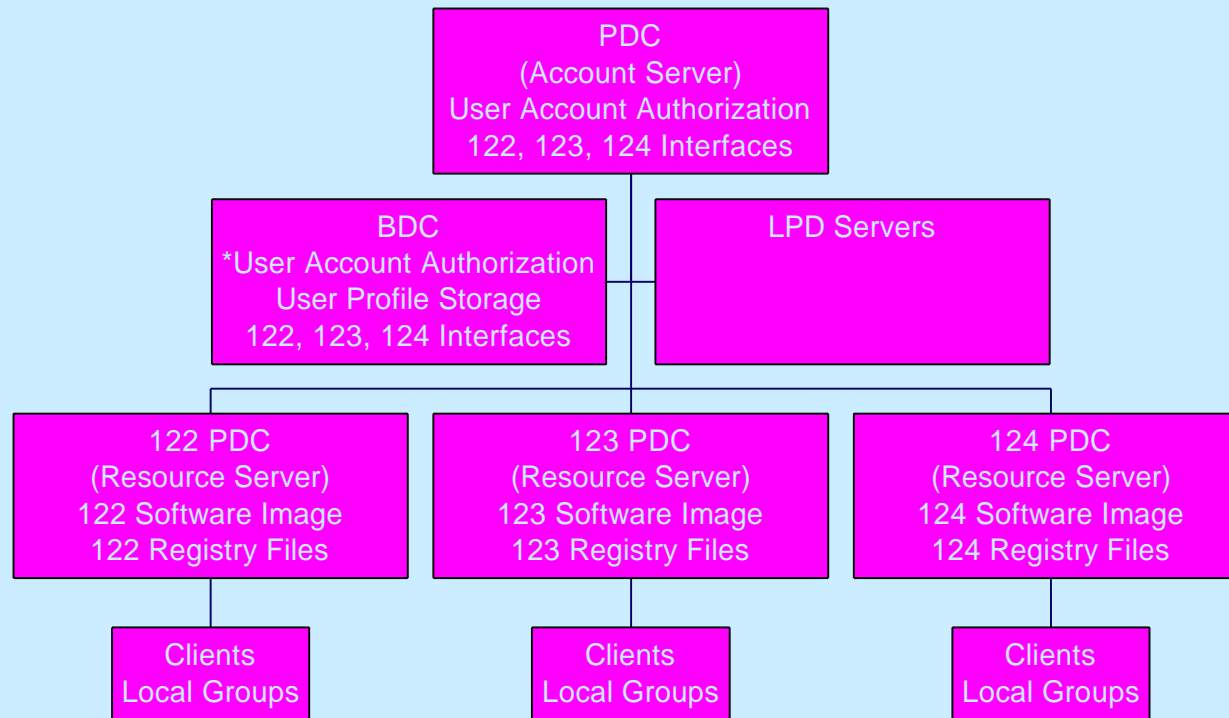
- LPR Printer Service
- Automated Client Re-Building
- Default + Client Registries
- DHCP
- FAT Partitions

◆ What Didn't Work

- Non-Group Accounts
- Domain Wide Administration
- Component-ized Registry Segments
- Remote Administration

CCS MicroNet III

Network Topology (Master Domain)



CCS MicroNet III

◆ What will work

- Local Group Accounts
- Network User Accounts/Profiles
- Automated Building/Re-Building
- LPR Printing
- Centralized Administration

◆ What Will Work

- Remote Administration
- Multiple Architectures
- Multiple Hardware Models
- Scalable
- Adaptable

Future Directions

- ◆ UNIX/NT account & storage integration
 - Sun NFS
 - Samba
- ◆ Messaging
- ◆ Perl