# Active Directory

Academic IT Directors
December 6<sup>th</sup> 2005

#### AD is...

- p Two (or more) Domain Controllers talking to each other and any clients you connect to it.
- Centralized user accounts and permissions for domain resources (computers, printing, files)
- Not necessarily better than Novell, just an alternative.
- Very redundant. DCs replicate; clients remember...

## AD isn't... (i.e., the fine print)

- p The solution to all your computer problems.
- p Easy, at least not to do it right.
- A quick fix. Conversion will take time.
- University supported. \*YOU\* have to deal with all accounts, software. But the other AD groups can help...

#### AD @ NCSU

- College of Natural Resources
- College of Textiles
- COE
  - Dept. of Electrical and Computer Engr.
  - Dept. of BioMedical Engr.
  - Dept. of Civil Engr.
  - Dept. of Industrial Engr.\*
  - ITECS
- CALS
  - Dept. of Agr. and Res. Economics
  - Dept. of Animal Science
  - Dept. of Crop Science
- CHASS\*

Others using ActiveDirectory:

ACS, DELTA, DSS, ITRE, NCSU Libraries

Others played with using

<u>ActiveDirectory:</u>

Computer Science, Physics, Biological & Agricultural Engr.

#### Why'd We Move to AD?

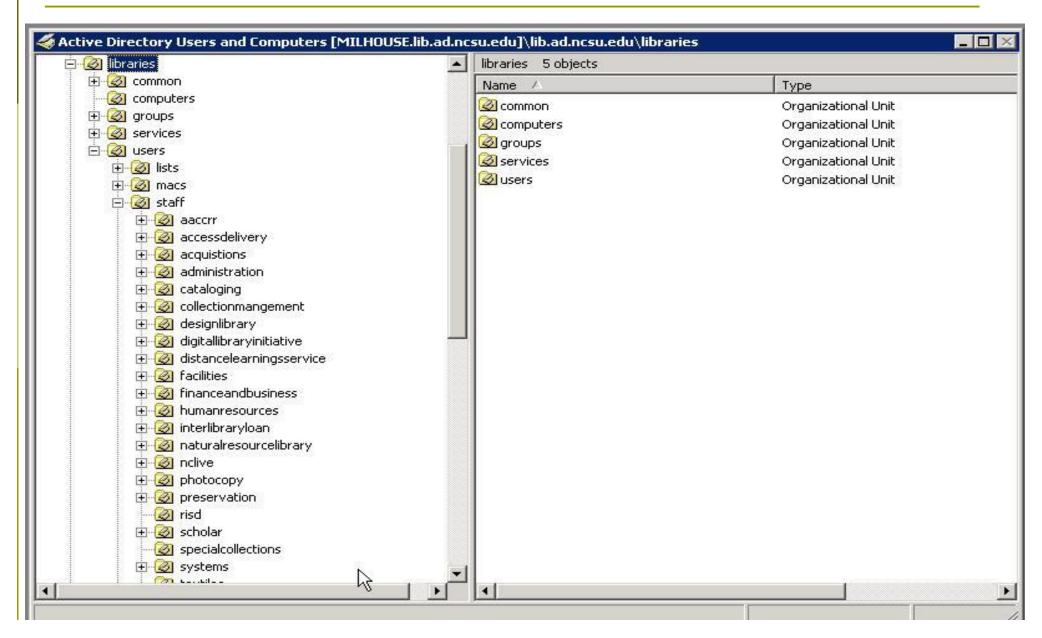
(common themes)

- Control
- Timing / Responsibility
- P IT Backgrounds
- Footprint / Overhead
- Ability to evolve as needs change
- Flexible to address different needs / designs
- Easier group policy / security maintenance

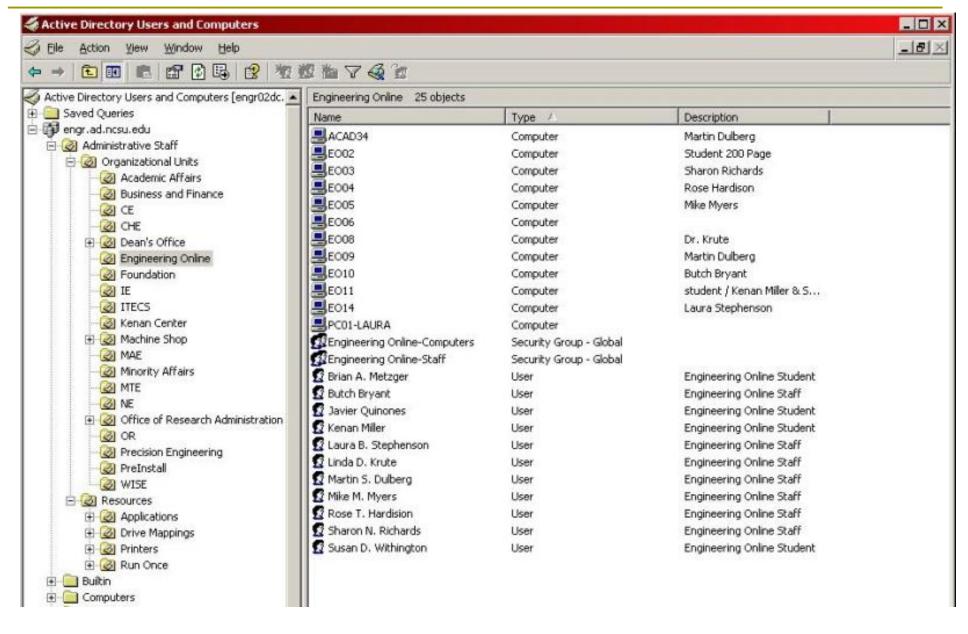
### Things you need to Consider

- User Management / Authentication
- Computer Management / Creation
- Printing
- Application Deployment
- Lab Machine Deployment (Ghost/RIS/Sneaker)
- Profiles VS Local VS Redirected Folders
- Support: College IvI VS University, 2x year updates; hardware/maintenance for DCs and supporting servers
- Conversion from Novell to AD on workstations

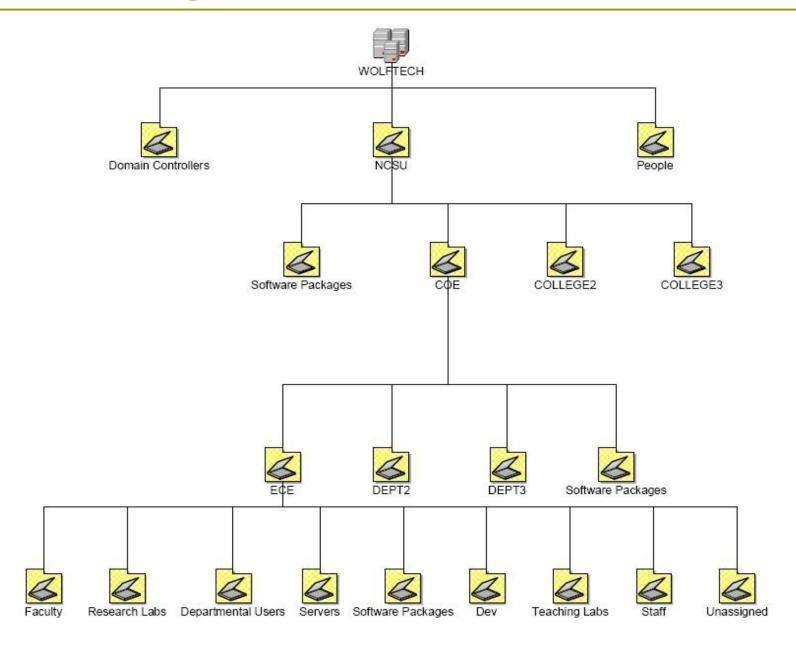
# AD Design: NCSU Library



# AD Design: ITECS



# AD Design: WolfTech



# AD Application Deployment

(post ITD Novell Lab kit)

- Ghost or Sneaker.net
- Microsoft SMS (PUSH)
- AD via MSI's and GPO's (PULL)

-----

- Software: Installshield, Wise; WinInstLE, Orca
- What are: MSIs, MSPs, MSTs
- DFS Distributed File System
- Computer vs. People distribution
- Assigned vs. Published distribution

#### Future AD @ NCSU

- Password Synch NCSU Passwd
- Automated User creation
  - Faculty/Staff by request of OU admins
  - Batch student account creation
  - Later part of the Realm ID creation?
- Automated Class Groups from RegRec
  - New DNS Methodology ("Yale Method")
  - Web (PHP) Administrative Interfaces
  - Single NCSU Forest
    - ∨ OU delegation vs. Multiple domains?
    - Exchange questions / requirements?

#### Create Your Own AD

- Request <college/dept>.ad.ncsu.edu
- 2. Create 2 (or more) Windows Domain Controllers
- 3. Add netlogon.dns from DCs to NCSU DNS (CHANGING)
- Maintain Domain, Servers
- Conform to new NCSU AD Audit Recommendations (see <a href="http://ncsu.edu/internal\_audit/main.php?name=activedirectory\_audit">http://ncsu.edu/internal\_audit/main.php?name=activedirectory\_audit</a>)

#### OR

#### Join the WolfTech AD Domain:

- Help develop single domain model.
- Get full admin rights to your OU.
- We manage the domain controllers for you.
- You manage everything else.

### **Questions?**