

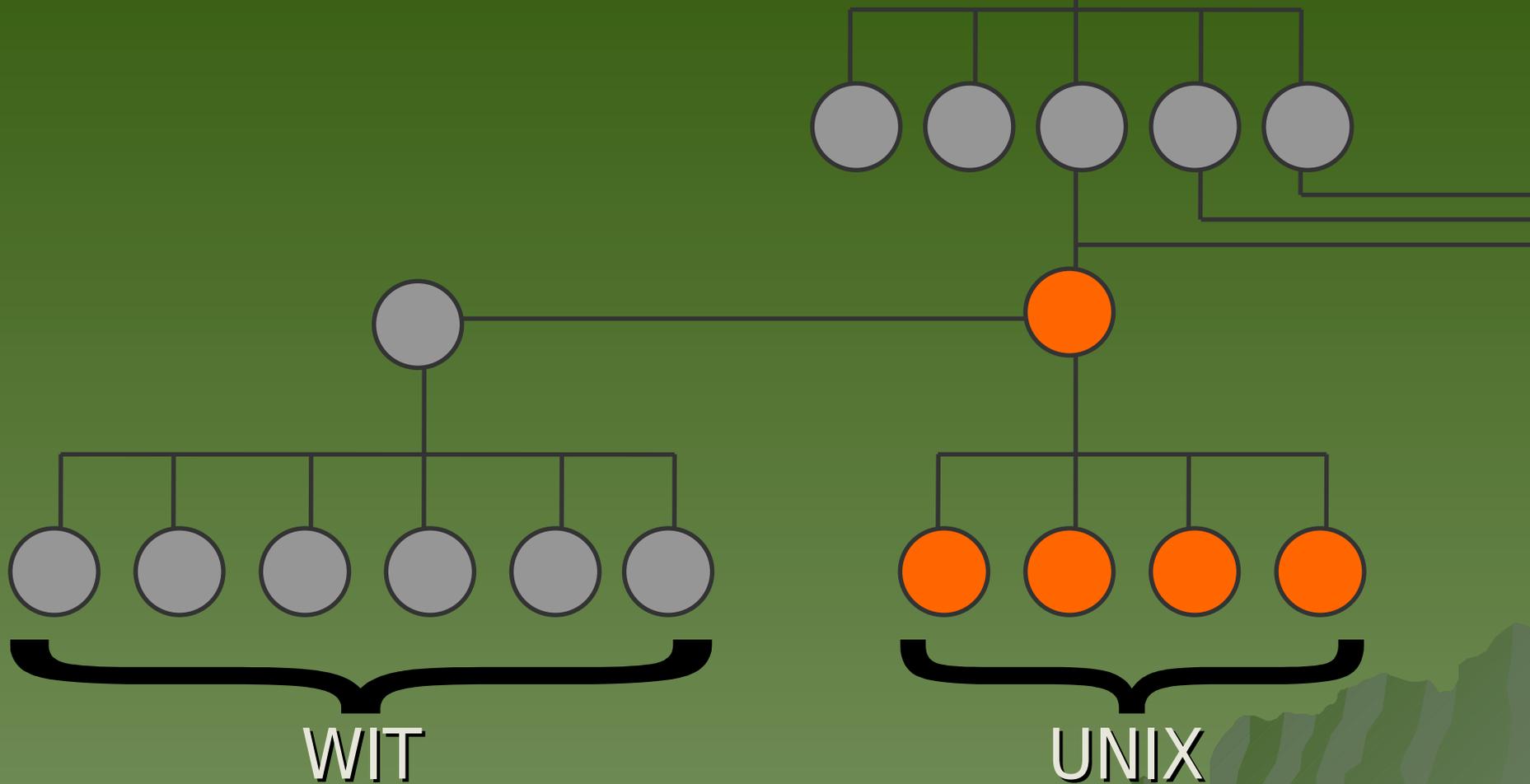
UNIX/Windows Integration

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ISS UNIX team

Overview

- ◆ Introduction
 - UNIX team
 - UNIX services
 - ◆ About Integration
 - ◆ Roadmap
- 

/intro/team

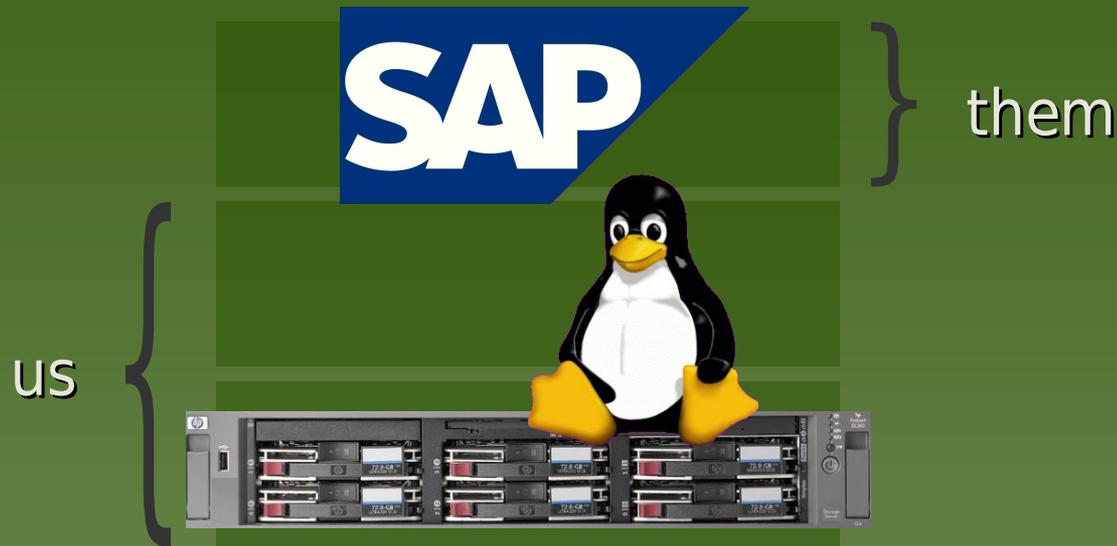


/intro/services:

platform; infrastructure; end-
user

A stylized, layered mountain range graphic in shades of green, located in the bottom right corner of the slide.

/intro/services/platform



/intro/services/infrastructure

- ◆ Mail hubs
- ◆ File servers
- ◆ Print servers

/intro/services/end-user

- ◆ `lists.ncl.ac.uk`
- ◆ Cyrus mail service
- ◆ version control service
- ◆ time share systems

...



Applying for a UNIX account

- ◆ Not automatic
 - ◆ Fill out a form
 - ◆ Separate password
 - ◆ Separate file storage
- 

/intro/services/example

```
PINE 4.62      MAIN MENU                               Folder: (CLOSED)  No Msgs

?      HELP          -  Get help using Pine

C      COMPOSE MESSAGE -  Compose and send/post a message

I      MESSAGE INDEX -  View messages in current folder

L      FOLDER LIST   -  Select a folder OR news group to view

A      ADDRESS BOOK  -  Update address book

S      SETUP         -  Configure Pine Options

Q      QUIT          -  Leave the Pine program

Copyright 1989-2005.  PINE is a trademark of the University of Washington.
Move current "sent-mail" to "sent-mail-feb-2007"?
? Help      Y Yes
            N [No]
```

/integration/challenges

Authentication

User metadata

File storage

/integration/authentication

- ◆ UNIX: Network Information Service
 - ◆ Windows: Active Directory
- 

/integration/metadata

njd33

DFdfg%^SfgDFDF

33017

19100

Jonathan. Dowland

/home/ucs/033/njd33

/bin/csh

/integration/filestorage

- ◆ UNIX: NFS

issfs2:home/ucs/033/njd33

- ◆ Windows: SMB/CIFS

//tower3/home13/njd33

[/roadmap](#)



/roadmap/authentication

- ◆ One account store
- ◆ Active Directory
 - Largest
 - Web single sign-on

/roadmap/authentication

- ◆ Secure binding
- ◆ UNIX account optional
 - Simplify procedure
- ◆ either/or grace period

/roadmap/authentication/protocols

- ◆ Kerberos
- ◆ LDAP

/roadmap/metadata

- ◆ AD 2003 schema changes
 - Includes UNIX uid/guid attributes
- ◆ Auto-populate fields

/roadmap/filestore

- ◆ Windows file servers no good for UNIX
 - Symlinks
 - Allowed characters
- ◆ NFS no good for windows
 - Same problems as UNIX

/roadmap/filestore

- ◆ Samba?
 - potential scaling issues
- ◆ AFS
 - Kerberos infrastructure
- ◆ Not this time

Summary



Summary

- ◆ Disparate systems bad

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- ◆ Disparate systems bad
- ◆ Integration good

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- ◆ Disparate systems bad
 - ◆ Integration good
 - ◆ Integration not that hard anymore
- 

Summary

- ◆ Disparate systems bad
 - ◆ Integration good
 - ◆ Integration not that hard anymore
 - ◆ One step at a time
- 

Questions / Further info

- ◆ jon.dowland@ncl.ac.uk
- ◆ <http://www.ncl.ac.uk/iss/unix/>
- ◆ [https://lists.ncl.ac.uk/wws/info/**ad-unix-project**](https://lists.ncl.ac.uk/wws/info/ad-unix-project)