

# PASS

What is it and why should you care?



# What is it?

- Part of the Infrastructure
- 3 main components to middleware
  - Authentication
  - Directory - Authorization / profile information
  - Data storage



# What uses PASS?

Institutional Research Data e-Portfolios ITS Homecoming  
Blogs.psu.edu User Managed Groups Macintosh Lab Computers  
Help Desk web site Smeal College of Business php.scripts.psu.edu  
Windows Lab Computers  
Course Online Web Accounts Palmer Museum of Art www.work.psu.edu  
Race Relations Project site **Personal Web Space**  
Office of Student Aid College of Communications www.greeks.psu.edu  
File sharing Clubs.psu.edu IMAP CACTUS  
Protected Personal Web space  
CBS UNIX cluster www.psu.edu Penn State Harrisburg  
Center for Space Research Programs  
Departmental Web Space  
Linux Lab Computers  
RS6Klab UNIX cluster  
( WebMail? )  
Linux User's Group Web Site World Campus



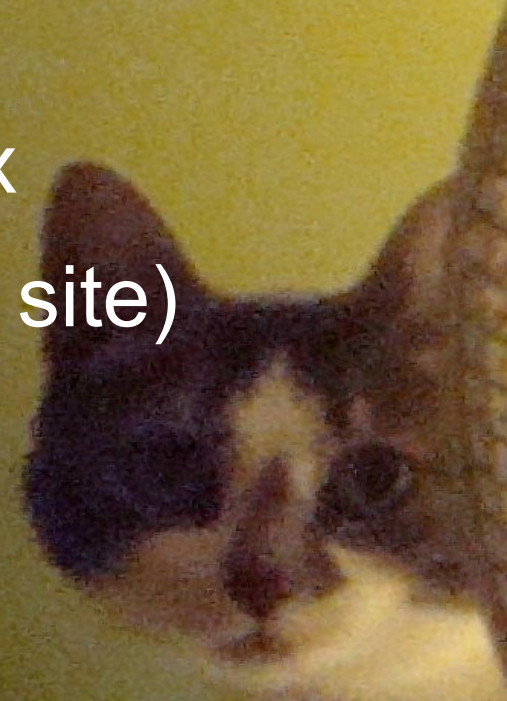
What uses PASS?

And much more...



# How do you access PASS?

- Gateways – CIFS, NFS
- Secure FTP – scp, sftp
- Web tool – PASS Explorer
- UN\*X clusters – rs6klab, cbs, armstrong, lxcluster
- Lab machines – Windows, Mac, Linux
- Others (indirectly by an application or site)



# What's new?

- DCE / DFS – end of life
- MIT Kerberos and LDAP – in place already
- Migration to GPFS from DFS in July
- Gateways fully kerberized
- Permissions revamped
- Quotas behave differently



# New Gateways

- Samba upgraded from version 2 to 3
  - Authentication now kerberos, no longer NTLM
- NFS upgraded from version 3 to 4
  - Authentication now kerberos, no longer web-based “mapping”
- Client support could be better
  - Linux mount.cifs does not work with kerberos
  - Linux NFS client requires nfs service principal



# New NFSv4 based Permissions

- More comprehensive / complicated than DFS
- ACL support over gateways (CIFS, NFS)
- Chmod disabled (for now)
- Simplier ACL Explorer
  - Integrated with PASS Explorer
  - Reset at any level
  - Wizard based design



# Quotas

- Faster I/O = slower quotas
- Enforce on write() vs enforce on open()
- More quota? Maybe this fall...



# PASS Beta

- You can help ITS test the new technology
- <http://css.its.psu.edu/PASSBeta/>
  - Sign up for Open Beta testing
  - Testing available until July 4

