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What are we doing?

- We are moving from user-centric areas
 _/home/\$USER
- To project areas
 - /hpss/prod/PROJECT
- The goal is to make HPSS' directory layout more like Spider/GPFS
- Organize data in HPSS by Project
- Planning on mid to late January to make the change



Why are we doing this?

- User access is based on project membership
- Confusion between user data and project data.
- Better understand data in HPSS
- Attempt to help users find data (data is restricted to specific project areas)
- Allow PIs to track and manage data better



How are we doing this?

- You will still have a home directory
 - Home directory will contain symlinks to project areas
 - /home/\$USER/PROJECT -> /hpss/prod/PROJECT
 - Will not be able to write to your /home/\$USER area
- Users with existing data will not be affected at this time
- New Users and Existing Users with no data in their home directory will be affected
- Directories will be scanned on a regular basis
 - Empty directories will be converted
 - Asking all users to move data to the appropriate project areas



Project Areas will change as well

- Mimic GPFS/Alpine directory layout
 - /hpss/prod/PROJECT/proj-shared
 - /hpss/prod/PROJECT/users/\$USER
 - /hpss/prod/PROJECT/world-shared (only for category 1 projects)
- For existing projects:
 - Project Areas already exist in /proj
 - Existing data in /proj/PROJECT copied to /hpss/prod/PROJECT/proj-shared
 - Symlink /proj/PROJECT -> /hpss/prod/PROJECT/proj-shared



Who is Affected?

- New Users will get this new layout by default
- Current Users that do not have data stored in their home directory will be switched to the new layout
- Legacy home directories (HPSS home directories that do not have current active users associated with it) will be moved to a private area
 - Data will not be accessible
 - We can easily retrieve and relocate the data as needed
- Current users with data in their HPSS home directory (either files or directories) will not be changed at this time



What is the migration plan for existing users?

- We will be working with users to have them move their data in /home/\$USER to the appropriate /hpss/prod/PROJECT area
- Once your home directory is 'empty' and scanned, your home directory will be automatically converted to the new layout
 - If you notice any issues, please contact the OLCF User Assistance Group <u>help@olcf.ornl.gov</u>



HSI

O:[/home/griffith]: Is -I /home/griffith:

Irwxrwxrwx 1 root root Irwxrwxrwx 1 root root

O:[/home/griffith]: cd stf008 O:[/home/griffith/stf008]: ls -l /home/griffith/stf008: drwxrwx--- 2 root stf008 drwxr-x--- 3 root stf008 drwxrwxr-x 2 root stf008 17 Dec 10 23:11 gen101@ -> /hpss/prod/gen101 17 Dec 10 23:11 stf008@ -> /hpss/prod/stf008

512 Dec 10 23:13 proj-shared 512 Dec 10 23:16 users 512 Dec 10 23:14 world-shared

O:[/home/griffith/stf008]: cd users/griffith O:[/home/griffith/stf008/users/griffith]: ls -l /home/griffith/stf008/users/griffith: -rw----- 1 griffith hpss 1628 Dec 10 23:18 log.ini



Questions?

