

/dune/data/ and /dune/data2/ need to move to /exp/dune/data by March 20, 2024

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/dune/data(2)/ disk should migrate to /exp/dune/data by March 20, 2024

- The NFS file systems we use are end of life and must be retired by May at the latest.
- Fermilab is replacing the NFS file systems with a new, faster, CephFS file system.
- **/app/ was migrated to /exp/app on February 21.**
 - This was done for you, but users had to change some scripts – this seems to have gone relatively smoothly
- Individual user home areas are on a different server and will not be affected.
- **You need to move your data on /dune/data/ and /dune/data2/ to /exp/dune/data by March 20**
 - **This move will not be done for you,** you need to copy your materials over before that date.
- This is a **quota-neutral move**—we get as much quota on the new system as we had on the old.

Current Status

- The data areas are mounted on all of the dunegpvm's as /exp/dune/data but they are mostly blank at the moment.
- You are responsible for migrating your /dune/data and /dune/data2 areas to /exp/dune/data.
- **best to do this before March 20**
 - Starting March 20, 2024, you cannot write additional data to the data volumes located in /dune/data.
 - After Friday 5/31/24, the system will be shut down and the data will no longer be available.
 - Areas for inactive users will be backed up.
- Instructions at:
https://wiki.dunescience.org/wiki/DUNE_Migration_Plan_from_NFS-based_NAS_to_CephFS and on the next page

Warning – there will be a network downtime on Wednesday, March 6, at 9:00 am FNAL time that may affect access to the new disks.

/dune/data(2) migration instructions

- /dune/data and /dune/data2 will need to be merged to /exp/dune/data.

- Users can move their data area by the following commands

```
cd /dune/data/users/$USER
mkdir /exp/dune/data/users/$USER
rsync -avx * /exp/dune/data/users/$USER
if [ $? -eq 0 ]; then touch MOVED; else touch RSYNC_FAILED; fi
```

- We suggest making /data2/ a subdirectory of /data/ to avoid overwriting identical files.

```
cd /dune/data2/users/$USER
mkdir /exp/dune/data/users/$USER/data2/
rsync -avx * /exp/dune/data/users/$USER/data2/
if [ $? -eq 0 ]; then touch MOVED; else touch RSYNC_FAILED; fi
```

- Warning: This can take some time if you have a lot of files.
- Warning #2: doing the rsync again will overwrite files on /exp/ so don't use /exp until you have done the copy
- The MOVED flag is there to tell us that you are done. Once that is there, and your copy succeeded you can delete all the stuff on /data/ and /data2/

Summary

- **You** should migrate your stuff on /dune/data and /dune/data2 to /exp/dune/data by March 20 but definitely before May 31, 2024. Delaying past the read-only date of March 20 could lead to you using /exp/dune and then overwriting in a late migration.
- instructions at:
- https://wiki.dunescience.org/wiki/DUNE_Migration_Plan_from_NFS-based_NAS_to_CephFS
- Good idea to check to see if you use files from other users on those disks and encourage them to move as well.