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# Incident documentation/20170118-Labs

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## Summary

~270 user home directories across labs instances that didn't have NFS mounted (non-tools/maps instances) got erased as an unintended side effect of the planned NFS migration([Task T154336](#)) for moving rest of labs projects on NFS to the secondary NFS cluster. This happened due to merging an erroneous puppet patch that made /home a symlink to the mount path across all instances, instead of just on nodes where /home was on NFS. We were able to restore most of the data using puppet filebucket restore mechanisms, but a few home directories, and some executable file permissions have been permanently lost.

## Timeline

- [17:09] Madhu starts labs (misc share) NFS migration to the new secondary NFS cluster
- [17:13] Madhu disables puppet across Labs instances with NFS mounted
- [17:58] Madhu merges patch (<https://gerrit.wikimedia.org/r/#/c/332735/>) that sets up symlinks for /home and /data/project to mounts from labstore-secondary
- [17:59] Tests on a few NFS mounted nodes and then starts rolling it out
- [18:30] Roll outs and puppet runs complete - spot checks nodes - realizes that some instances where /home isn't mounted from NFS have broken symlinks
- [18:40] Abogott and mutante report puppet failures across tools and labs because /home is a broken symlink
- [18:46] Madhu rolls out fix <https://gerrit.wikimedia.org/r/#/c/332803/>, but puppet has already run in a lot of nodes and wiped out all the home directories
- [19:00] Chase and Yuvi work on writing a script that uses puppet filebucket to restore the missing /home directories - after a lot of tweaking and setting up user permissions, seems to work fine. Madhu rolls out script across broken nodes and most directories are recovered.

## Conclusions

- List of affected nodes in this process - [Task P4784](#)
- List of nodes where /home is missing - [Task P4785](#)
- Most of the data was recovered, but we lost executable permissions set on files, and there has been one report of partially missing data.
- Having nfsclient.pp applied to every single labs instance, and then optionally mounting/unmounting shares based on config is scary - it leads to cases like this where instances that don't have NFS and shouldn't be affected or watched out for do end up being affected

## Actionables

- Do not include nfsclient.pp globally across all instances (<https://gerrit.wikimedia.org/r/#/c/333227/>)

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