

## Nyanshell part 1

This terminal teaches about Linux file attributes, which are often overshadowed by the more commonly used file permissions. It also teaches about how the `etc/passwd` file determines a user's shell.

The terminal is in the Speaker Unpreparedness Room in Hermy Hall if you are playing the game. If not, access the terminal directly at <https://docker2019.kringlecon.com/?challenge=nyanshell&id=5ce125ad-f059-4198-adb0-4c6fba3cdd4d>.

Someone has been playing games with Alabaster. They have changed his shell so that he cannot use his terminal. Alabaster says some important words: `overwrite`, `chatter`, `immutable`, and `sudo -l`.



Two more hints are available in the game. “On Linux, a user's shell is determined by the contents of `/etc/passwd`,” and “`sudo -l` says I can run a command as root. What does it do?”

If you switch user ( `su` ) to Alabaster's account to see what a flying hatted cat and a toaster pastry look like, you can get your terminal back with `Ctrl-C`.

### Questions

- 1) What file is being executed instead of Alabaster's normal shell, `bash`?
- 2) What are the file permissions on the flying cat file?
- 3) Where is the real `BASH` shell file?
- 4) Can you copy the real `BASH` on top of (overwrite) the flying cat file?