## Nyanshell part 3

File attributes allow the administrator to control what a file can do, and what can be done to the file. Attributes are applied by the file system for all users. The file permissions in the usual rwxrwxrwx control what different users can do with the file.

## Answers to previous questions

5) A hint tells us to use sudo -1. What does that command tell us?

```
elf@26fcbfd45e4a:~$ sudo -1
Matching Defaults entries for elf on 26fcbfd45e4a:
    env_reset, mail_badpass, secure_path=/usr/local/sbin\:/usr/local/bin\:/usr/sbin\:/usr/bin\:/bin
User elf may run the following commands on 26fcbfd45e4a:
    (root) NOPASSWD: /usr/bin/chattr
elf@26fcbfd45e4a:~$
```

This tells us that we may run the command /usr/bin/chattr as root, without entering a password.

6) Look up the command you find in question 5. How can it help us? Also, there is a companion command that starts with Is that may help; what is it? The chattr command changes attributes and its companion command is lsattr, or list attributes. You can find information about them in <a href="https://www.computerhope.com/unix/chattr.htm">https://www.computerhope.com/unix/chattr.htm</a>

Now that you know about the lsattr and chattr commands, you should be able to change things so that you can overwrite the nasty flying cat file with a fresh version of the BASH shell. Once you've done that, switch user to Alabaster's account to check to see if it worked.

## Questions

7) What commands did you use to rescue Alabaster?