IT 3100: Systems Design and Administration I

Ownership Count

Due according to the class schedule.

Assignment

In this assignment you will explore which users and groups files in the operating system belong to.

Requirements

On the machine [php.cs.dixie.edu], you will count how many files belong to each user/group combination. You will do this for each user/group combination that exists, in each of the directory trees `/etc`, `/usr`, and `/var`.

Details

- In some of these systems, you will not be able to access all of the files. Report on those you can access.
- For our purposes, directories are files, include them in the count.
- Be sure not to include files that are not local to the hard drive.
- Create a table for each of the directory trees that shows the user/group combination and the number of files found.

Hint:

```
ls -lR, awk, sort, and uniq
```

- Hint: Do them in that order. You could create a table of output for /var with a single line... then do it for /etc/ and the other directory.
- Hint2: Look at the ‘-c’ flag for the ‘uniq’ command.
- Hint, here are some counts I found in /var (Spring 2017)

```
2 _apt root
69 _man root
46 _root adm
1 _root crontab
1 _root Debian-exim
1 _root lxd
1 _root mail
1 _root mlocate
10399 _root root
2 _root shadow
1 _root staff
1 _root syslog
5 _root utmp
```

- if you are off by a few, that is ok. Different ways of doing it might result in different counts.

Submission and Passoff

- Submit a PDF with your 3 tables to the instructor.