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 [copier.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 tress /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:

```bash
ls -1R, 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)

```plaintext
2 _apt root  
69 man root  
46 root adm  
1 root cron  
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.