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.