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 \texttt{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 trees \texttt{/etc}, \texttt{/usr}, and \texttt{/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:

\texttt{ls \textasciitilde \textasciitilde \textasciitilde \textasciitilde \textasciitilde}, \texttt{awk}, \texttt{sort}, and \texttt{uniq}

* Hint: Do them in that order. You could create a table of output for \texttt{/var} with a single line... then do it for \texttt{/etc} and the other directory.

* Hint2: Look at the \texttt{\textasciitilde\textasciitilde\textasciitilde\textasciitilde\textasciitilde} flag for the \texttt{uniq} command.

* Hint, here are some counts I found in \texttt{/var} (Spring 2017)

\begin{verbatim}
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
\end{verbatim}

* 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.