CIS 90 Linux Lab Exercise

Lab 9: Editing files with vi
Spring 2013

Lab 9: Editing files with vi

In this lab you will use the vi editor to create new files and edit existing files.

Forum

Browse to: http://oslab.cabrillo.edu/forum/

Check the forum for any late breaking news about this lab. The forum is also the place to go if you get stuck, have a question or want to share something you have learned about this lab.

Procedure

Log on to Opus so that you have a command line shell at your service. Change directory to *edits* to start this lab.

1. Create a text file called *home* using **vi** and insert the following lines:
    ```
    cd
    clear
    echo This is the home directory of $LOGNAME
    echo ======================================
    ls -F
    ```

2. Use the **chmod** command to set the permissions on the file, home to `rwxr-xr-x`.

3. Enter the command **home** and see what happens. Is it what you would expect?

4. Move this shell script you have just made to your *bin* directory,
    so that you may run it from anywhere on the system.
    Congratulations: you have just written your first shell script!

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5. Run the spell command on the file *small_town*:
    spell small_town
    Note all the misspelled words.

6. Make a permanent list of the above misspelled words by running the **spell** command again, but this time, redirect the output to a file called, *words*.

7. Use vi to edit the small_town file and:
   - correct all the misspelled words.
   - move the "Reprinted from ..." line to the bottom.
   - get rid of duplicate lines and extraneous characters in the file.
   - use a consistent indentation.
   - fix the misspelling on the line: "The biggest business ..." where the misspelled
     word is the wrong word spelled correctly! (change on to in)
   TIPS:
   - use the **dd** command to delete lines.
   - use **yy** and **p** commands to copy and paste.
   - use **/string** command to search for misspelled words.
   - use **x** command to delete single characters.
   - use **i** command to do normal notepad-like screen editing, and **Esc** to get back to
     command mode.
   - use two login Putty sessions, one to edit *small_town*, the other for *words*.

8. When you have fixed all the spelling errors, run the **spell** command again.
   What should be done with words like "Ayshire", "moshpit" or "mashpit" that aren't in
   UNIX's dictionary?

9. Edit the file *words* and remove all the misspelled words that you have corrected.
   (Only Ayshire and moshpit should remain in the file.)

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10. Enter the following three commands from your shell prompt:
    ```
    date
    echo Now is the time for all good men to come to the aid of their party
    cal
    ```
    Use command line editing to redisplay the **echo** command, and change the word
    men to women. Then re-execute the command. Hint: to enter command line editing
    mode, press the up-arrow key.

11. Re-execute the command once more, but this time redirect the output to a file called
    women. You should now have a file named women with a single line in it.

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12. Here is a little project for you to accomplish on a UNIX system:
    - I have emailed a message titled, "Technology for Mountain Folk" to
      your Opus account. Read your mail and save this message to a file
      called, *vocab* in your *edits* directory.
    - **vi** the *vocab* file and remove the numbers and spacing in front of each
      definition. Also remove the extraneous mail headers.
    - Sort this list so that it is in dictionary order and save the results in a
      temporary file.
    - Rename the above temporary file to *vocab*. Now your vocabulary list is
      in alphabetic order. Make any necessary adjustments to the file, e.g.
      making sure the title is at the top of the page and that there are no
      broken sentences.

Submittal

To get credit for this lab, you must send me the following five files that you have
created or edited in this lab. I want these files bundled up into a single text file called
lab09.$LOGNAME (where $LOGNAME is your login name) and deposited in the
directory:

/home/rsimms/turnin/cis90

The five files are:
home
words
small_town
women
vocab

One command that almost does this could be:
cat home words small_town women vocab > /home/rsimms/turnin/cis90/lab09.$LOGNAME

Be sure to verify that your submittal was completed before the deadline. No late work is accepted.

Grading Rubric (30 points total)

6 points for each file's contents included in submittal
Less 1 point for each step not completed correctly