

## CIS133 – Homework #1

Please label each of your answers with the respective problem number and, if a question asks for an explanation of how you completed a task, assume you are writing the instructions for someone else to perform. I want either a bulleted or numbered list of the steps used.

In addition, please **change the terminal window colors** to something other than the default; white background with black text (or something with a strong contrast) works well for me.

- 1) Use the zypper command to install all updates.
  - a. What command(s) did you use to complete this task?
  - b. Provide a screenshot of the command and its output confirming that all updates are installed. (You should be able to re-run the command and see a message that says “nothing to do”.)
- 2) Change the *default* video display resolution size to a resolution that works for you. When done, the setting should be system wide. If configured correctly, the resolution will be the same for any user logging in at this system (by default). At this time you only have root and cis133 – test them both.
  - a. Provide a list of the steps used to complete the task.
  - b. Provide a screenshot of the file contents of the configuration file used to complete this task.
- 3) Use the zypper command to install the LXDE desktops.
  - a. What command did you use?
  - b. Use the cis133 user to login using the LXDE desktop and provide a screenshot of the desktop.
- 4) Add a widget to your desktop. Use one that you think would be practical. Pick one that has settings because you’ll be expected to adjust some settings in the next question.
  - a. What widget did you use?
  - b. What is the purpose of the widget and why do you think it would be practical?
  - c. Provide a screenshot of the desktop displaying the widget.
- 5) Change at least one of the default settings of the widget you added in the previous question.
  - a. Explain the effect your change had on the widget
  - b. Provide a screenshot of the widget’s settings.
- 6) Take some time to login to each of the following desktop environments: Gnome, LXDE, Kde, XFCE, iceWM, and OpenBox desktops. While logged in, take some time to ‘look around’. Navigate the desktop. Change the desktop background for the first 4 in the list and research how to change it in the others. You aren’t required to change the background for the last 2 but do some research as to how it might be done.
  - a. Provide a screenshot of the Gnome desktop with a changed background.
  - b. Provide a screenshot of the LXDE desktop with the changed background.
  - c. Provide a screenshot of the Kde desktop with the changed background.
  - d. Provide a screenshot of the XFCE desktop with the changed background.
  - e. Explain the process that might be used to change the background of the remaining 2. If you are able to successfully change the background, provide the detailed explanation of how you completed it and provide a screenshot of the desktop with a changed background.

- 7) Of the tested desktop environments you've used in this assignment, which do you prefer and why?
- 8) Open at least one virtual terminal and login as root. Execute a few commands – just for the sake of doing something while you're there. Toggle back and forth between that session and the GUI desktop.
  - a. Provide a screen shot of the virtual terminal screen.
  - b. How did you toggle back to the GUI?
- 9) Use the graphical interface to change the current default display manager gdm. Use a virtual terminal to restart the graphical interface and confirm your change worked. If successful, the login screen should look different.
  - a. Provide a step-by-step explanation of all tasks performed.
  - b. Provide a screenshot of the 'new' login screen.
- 10) Test a display manager setting that wasn't demonstrated in class; do not use gdm, sddm or kdm.
  - a. Include a screenshot that shows the setting used.
  - b. Include a screenshot of the "new" login screen.
- 11) Use the command line interface to change the current default display manager back to sddm. Use a virtual terminal to restart the graphical interface and confirm your change worked.
  - a. Provide a step-by-step explanation of all tasks performed.
  - b. Provide a screenshot of the sddm login screen.
- 12) Provide a detailed list of the steps you would use to change the default desktop to lxde.
- 13) Assume you do not want the users who login to your system to be able to change the desktop that they use when they logon. Without uninstalling the desktops from the machine, what could you do to enforce this?
- 14) A 'broken' virtual machine has been placed in your CIS133 VMware folder. Fix it. It must boot to the sddm windowmanager login screen. There are 2 users on the system: root and cis133 – both have a password of novell.

**Note:** You will be expected to fix some settings in files. The files you change are files we've covered in class. Point being... don't change a file that I haven't spent time on in class.

  - a. Include a list of steps you took to fix the machine.
  - b. Include the file name(s) of any file(s) you changed as well a screenshot of what was 'fixed' in the file(s).