LPIC-1 102-400 – Lesson 1 – Lab

* **Enter into both your Lab environments**
- **$ NAME=Nick** # set a shell variable
- **$ echo $NAME** # display the value of **NAME**
- **$ bash** # create a child shell
- **$ ps auxwf** # show processes in tree form
- **$ echo $NAME** # is **NAME** ser?
- **$ exit** # go back to the parent shell
- **$ export NAME** # export variable **NAME** into the environment
- **$ bash** # create a child shell
- **$ echo $NAME** # how about now?
- **$ echo $PATH** # display **PATH** value
- **$ echo $HOME** # display **HOME** value
- **$ echo $USER** # display **USER** value
- **$ echo $TERM** # display **TERM** value

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- **$ export PATH=$PATH:/opt/bin** # add another path in **PATH**
- **$ echo $PATH** # verify
- **$ alias** # Try this on both Debian and CentOS
- **$ alias grep='grep --color=auto'** # colorize **grep**
- **$ grep 'UUID' /etc/fstab** # **grep** with colors!
- **$ alias many='cd; ls -la; pwd'** # define a multi command alias
- **$ alias** # verify
- **$ many** # try the **many** alias
- **$ function manyf () { cd $1; ls -la; \ pwd; }** # define a function with arguments
- **$ set | grep -A 5 manyf** # verify
- **$ manyf /etc** # run **manyf** on **/etc**
- **$ set -o** # show current bash configuration
- **$ export PS1="\T; $PS1"** # redefine **PS1**
- **$ unset PS1** # you are not going to like this!
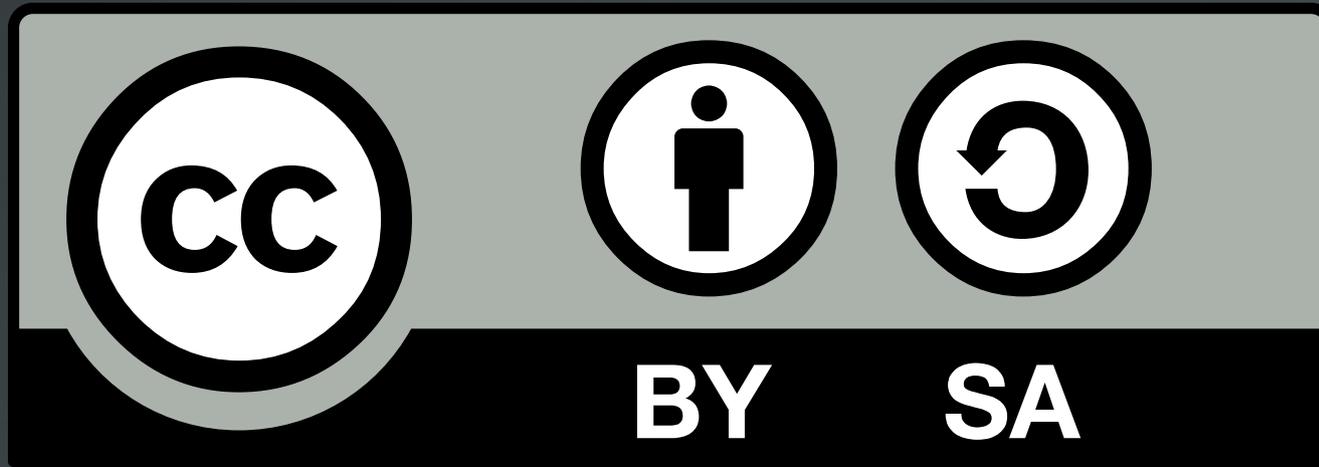
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- **export PS1="[\u@\h \W]\$"** # redefine **PS1**

- **$ su -** # login as **root**

- Add the following lines at the end of these files:
  echo "Hello $USER from /etc/profile" in **/etc/profile**
  echo "Hello $USER from /etc/bashrc" in **/etc/bashrc** or **/etc/bash.bashrc** (debian)

- **$ exit**

- Add the following lines at the end of these files:
  echo "Hello $USER from .bash_profile" in **~/.bash_profile** or **~/.profile** (debian)
  echo "Hello $USER from .bashrc" in **~/.bashrc**

- **$ logout** # logout from the system

- # Login back to the system again. Any surprises?

- **$ bash** # create a child **bash** shell

- **$ exit** # exit the child shell

- **$ su -** # login as root and delete those lines we added in the global **bash** configuration files

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- `$ cd /etc/skel ; ls -la` # try this on both CentOS and Debian
- `$ ls -la ; echo $?` # check the exit status of `ls` using a list
- `$ ls -la nothing ; echo $?` # what's the exit status now?
- `$ grep nothing /etc/fstab ; echo $?` # exit status?
- `$ grep ext /etc/ftsab ; echo $?` # exit status?
- `$ grep ext /etc/fstab ; echo $?` # exit status?
- `$ find /usr/share ; echo $?` # exit status
- `$ find /etc ; echo $?` # exit status
- `$ find /usr/share && echo 'Success!'` #
- `$ find /etc && echo 'Success!' || echo 'Fail!'` # success or fail?
- `$ find /usr/share && echo 'Success!' || echo 'Fail!'` # success or fail?
- `$ cd /etc && ls -la && pwd` # list and print working directory on success only
- `$ cd` # back to homedir
- `$ cd /etc || ls -la || pwd` # what happens here?

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