ID: LAB-L101



Title: Linux Lab Workbook

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1.0 Linux Lab Workbook

For each of the labs take the time to find out what each of the commands do. Use the <u>man</u> command to display what options the command takes, what its effects are, and what type of things to expect.

One of the key features of any UNIX type system is there is usually a number of different ways to achieve the same result. If your answer doesn't match mine but you get the right result then consider it correct!

1.1 Requirements

Before you start the exercises check the following sections to ensure you have the materials you need to run.

1.1.1 User ID

You will need to have a user id and password to logon to the specified Linux guest.

1.1.2 Telnet Client

To perform these lab exercises you will need access to a decent Telnet client. The default Windows client is pretty lousy, but it will work.

If you want one that I've found quite useful then go to http://www.chiark.greenend.org.uk/~sgtatham/putty/ and download the file to disk. Running this program will enable you to simply fire off a telnet session or allow you to configure and save various settings. This client also has a Secure Shell (SSH) feature for making secure connections to hosts.

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2.0 Labs

2.1 Lab One

The objective of this exercise is to give you experience in using telnet to connect to the Linux host, login using the user id and password provided, and then to logout.

- 1. Fire up the telnet client specifying Lab system as the host
- 2. When prompted provide your user id and password
- 3. Logout or exit from the session

2.2 Lab Two

The objectives of this exercise are to

- Familiarize yourself with a couple of commonly used commands, and,
- Let you explore the system a little.
- 1. Get help on the 1s command
- 2. Find out who else is on the system
- 3. What is your current directory (present working directory)?
- 4. Pipe the output of the ls -l / command to ls.output and see what you get

2.3 Lab Three

The objectives of these exercises are to find out how you can see what a system is running and what resources the system is using.

- 1. Use the <u>ps -ef | more</u> command to locate what daemons are running on the system
- 2. Use the top command to display the system activity

2.4 Lab Four

The objectives of these exercises are to:

- See how Linux can handle multiple file systems
- Examine the /proc file system which Linux uses to provide information about its internal operation
- 3. Find out what devices are mounted and what file systems are in use
- 4. Examine a couple of the /proc files using the more command (hint, use the 1s command to see what files exist within the /proc system)

2.5 Lab Five

The objective of this exercise is to familiarize you with the hierarchy of files within a file system.

5. Use the <u>cd</u> command to go to the "root" of the file system

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- 6. Use the 1s command to display the files and directories
- 7. Use the cd command to go to your home directory
- 8. Use the pwd command to display the name of the present working directory

2.6 Lab Six

The objective of this exercise is to get your hands dirty playing with files, directories and links

- 9. Explore your filesystem:
 - Identify 1st level directories
 - Locate a symbolic link
 - Use the umask command to display current default
- 10. Create 3 files ('all', 'group', 'owner') & assign permissions:
 - all -r/w to owner, group, and others
 - group r/w to owner and group, r/o to others
 - owner r/w to owner, r/o to group, none to others
- 11. Create a directory 'test' under your home directory
- 12. Create a file 'real.file' within this directory
- 13. Create a symbolic link in your home directory to 'real.file' called 'symbolic.link'

2.7 Lab Seven

- 14. What shell are you using
- 15. Editing the command line:
 - Scrolling through past commands
 - Inserting/deleting characters on command line
 - Using editing key: CTRL-T
- 16. Try command completion:
 - Note what happens when you issue: ls /etc/pro<TAB>
- 17. Invoke the C shell (and then exit)

2.8 Lab Eight

The objectives of these exercises are to increase your competency and confidence in dealing with files and directories.

- 18. Use the <u>ls -a</u> command to display directories. Where did all those files come from? When you use the SuSE YaST facility to add users, these files get put there as part of the creation process.
- 19. Use the -R option of 1s to display down file tree
- 20. Use cat to display a file
- 21. Use more to display a file one page at a time
- 22. Erase the link 'symbolic.link', erase the 'test' directory and its contents, then erase the 'all', 'group', and 'owner' files.

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3.0 Lab Nine - vi Primer and Exercises

Some things you should know right away:

It is pronounced, "vee-eye". That's important because you don't want people to think you are completely illiterate, and they will if you say "veye" or "vee".

There are people who will differ with this, but here is the deal: those people who pronounce differently know that a great number of people say "vee-eye", but a lot of the people who do pronounce it "vee-eye" do not realize that there are other ways. So be safe. Go with "vee-eye".

By the way, if you have any modern version of SCO, what you probably want is the graphical editor that is (of course) available only within the graphical environment. Somebody shut that off a long time ago? Try "startx". That editor does not begin to have the truly awesome power and beauty of vi, but there is no learning curve.

A caveat: it is hard to see leading or trailing spaces with the graphical Edit program, and there are places where spaces in the wrong spot can mysteriously break things. Be careful, and remember this.

Of course, you cannot use the graphical editor on a dumb terminal or over a dial-up connection. Nor can you use it if your graphical environment is kaplooey, or never worked at all. So having at least a minimal knowledge of vi is helpful, if not absolutely necessary.

3.1 Getting Started

Honestly, there are only a few things you have to know to use vi. There are lots of things you should know, lots of things you could know that could make your life easier now and then, but there really are only a handful of things you need to know to get a job done. It may take you ten times longer than it would if you learned just a little bit more, but you will get it done, and that is better than getting nothing done at all.

So let us get started. First thing to do is type:

vi /ect/frammif/mkil

No, that is not a misprint: I really want you to type "vi /ect/frammif/mkil". Trust me on this one; it is all in a good cause.

Okay, if you have done that, and your system is not the strangest Unix system in the whole world, you should see something that looks a lot like this:

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Without doing anything at all, I want you to look at your screen. Notice that the "/ect/frammif/mkil" is at the bottom of the screen and it says "[New file]". Memorize what this looks like, because every time you mistype the name of a file, this is what you will get.

Notice that, at least right now, vi doesn't care a bit that you don't (I'm pretty sure you don't) even have a directory "/ect", or a sub-directory under that called "frammif", never mind a file called "mkil". Right now, vi just doesn't care. All it knows is that there is no such file right now, so it must therefore be a "New" file. Simple minded, yes.

Notice the "~"'s running down your screen? Those are called "tildes" if you prefer accuracy, or "squigglies" by some people. I do not care what you call them, I just want to to remember that in vi, those "~"'s mean "Nothing is there". That's "nothing" as in absolutely nuttin'. Not a bunch of spaces such as separate every word on this page, but nothing at all. Zip, nothing, empty.

That makes sense, here. If /ect/frammif/mkil is a new file, there should not be anything in it. Good so far? Okay, let us try something. Press <ENTER>.

Nothing happened, right? Try the arrow keys. Do not hit any letters or anything else, just the arrow keys. Anything happen? Can you move down into those squigglies? No? Why not?

Because vi will not let you move over what is not there. Other editors (like the graphical Edit program we talked about above), would just assume you want to add spaces or empty lines, and would let you move down. Not vi, though. vi is picky about those things, and you are stuck right where you are.

Well, there has to be a way to add text, right? Of course. There are two ways (actually a whole lot more, but we are only going to learn two here-keep it simple, remember?). The

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first way is to type a lower case "i". If you can remember that "i" means insert, that will be good. Go ahead, type an "i", but don't type anything else. What happened?

Nothing, right? Actually, if someone else set up your editing environment, you might have seen "INSERT MODE" appear at the bottom of your screen, but probably not. So, that is the second thing you have learned about vi: if you type "i", nothing happens.

But wait: something did actually happen. Try typing something else now, anything at all. "The quick brown fox was not quick enough". Wow. Look at that. It is working! Press <ENTER>. Type some more. Great fun, right?

Okay, now I'm going to break it. Sorry, but this is the only way you are going to learn. Press <ESC>. Go ahead, there is no point in typing more. Press <ESC>. Press it again. And again. Wait, then <ESC>-<ESC>-<ESC> really fast, pause for a second and then two more. Did your computer beep at you every time you pressed <ESC>? It might have (it depends on a few things like: does your speaker work?), which is vi's charming way of saying "Just what is your basic problem, dude? You already pressed it once; I did what I am supposed to, but NOOO, you have to press it again, and again and again..."

OK, now try the arrow keys. If they don't work, use the "-" key to move up, the <ENTER> to move down, Backspace to move left, and <SPACE-BAR> to move right. Try to remember those in case you are ever in a situation where your arrow keys do not work. If it is easier for you, you can also use "h", "j", "k" and "1" to move around. Try it.

Notice that you still cannot move into those tildes. Nothing has changed; you've added some text that you can move around in, but that is all.

Now let us add a line. Get yourself right on the very first line and then type "o". The "o" stands for "open". Neat, is it not? A whole line opened up underneath where you were and you can type whatever you want until you want to move around again. When you want that, press <ESC>, and then you can move again.

If you cheated and used the arrow keys while you were typing, you might have found out that they work, too. But do not count on that: you might not always have arrow keys that work, and some versions of vi don't let you use them when you are typing.

Next lesson: Press <ESC> if you haven't already, and put yourself (well, the cursor) anywhere on one of the lines you just typed. Type a lower case "d". Nothing happens (you get a lot of "Nothing happens" with vi). Do it again. Whoops! Did you see that sucker disappear? No? Try it again, and pay closer attention. Type "d", and then type it again. Instant line eradicator!

Of course, sometimes you are going to delete a line you did not mean to delete. Type "<u>u</u>" ("undo"). Magic?! Type it again. Wow. Again. And again. It's like stuck, isn't it?

Let's try something else. Get on the very first line and press "<u>a</u>" twice. Now move to the very last line and type a "<u>p</u>". Wow, now you can move lines! But wait, there's more: type "p" again. And again. And once more. Now you can duplicate lines, too. "p" is for "put".

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Sometimes you don't want to remove lines, just characters. vi can do that. Put your cursor on top of a character. Pick a mean looking one, a character that doesn't deserve to be in your file. You are now judge, jury, and executioner. Does this character deserve to die? You bet! Type an "x" and the little creep is gone. Changed your mind? Bring it back with "u". Toy with it: "u" and it's gone, "u" and it's back. Gone, back, gone back. Only you can determine this letter's fate. There's another neat trick that can come in handy if you transpose characters while typing. Say you accidentally type "lteters". Put your cursor on the first "t" and hit "x". Then, without moving a muscle, hit "p". You now have "letters". Neat.

One more thing about "x" (actually about almost any command, but we'll use "x" to demonstrate). Put yourself at the beginning of a line and then type " \underline{i} ", followed by "hello". Hit <ESC>, then move back to the "h" of "hello". Watch carefully now: type " $\underline{5}\underline{x}$ ". "hello" disappears. Hit " \underline{u} " and then try " $\underline{3}\underline{x}$ ". Get the point? You could type " $\underline{5}\underline{8}\underline{x}$ " and the next 58 characters would disappear. The reason I mention this is that sometime you will do it accidentally, and if I didn't give you this hint, you wouldn't have a clue. Forewarned and all that.

You've now learned how to move around, how to insert and delete characters and whole lines, and that's enough. There is no editing task that you cannot accomplish with just this. Yes, there are faster and better ways to do all kinds of things that you might have to do, but there is nothing you cannot do just knowing these few commands.

But you do have to learn how to write your changes and get out, and (important) how NOT to write your changes and get out.

Let's try writing this file. To do that, press <ESC> if you are in insert mode, and then type a ":". The cursor moves to the bottom of your screen and your computer puts on a very patient expression. You probably won't want to try this, but you could sit there for 6 or 7 hours and vi would do ABSOLUTELY NOTHING. vi is very, very patient.

But you aren't, right? So type " \underline{w} ", which means "write". OK, cool, the file is written, and now we can.

What? What do you mean you got an error? What error? Let me see that stupid thing. What did you do now? You probably broke it for good this time, and people are going to be real mad at you because YOU PRESSED "w" WHEN YOU WEREN'T SUPPOSED TO!

Yeah, I'm kidding. You got "No such file or directory", didn't you? It's OK, nothing bad happened. vi just can't write this file because of those crazy directory names we used. I stacked the deck to deliberately create this problem for you.

Great. So you've typed 10,000 words of deathless prose that's due on your boss's desk NOW, and you can't write it. Real amusing, right?

Naw. You can write it, you just can't write it to /ect/frammif/mkil. How about we write it to myfile.safe instead? To do that, simply hit ":" again so you are back at the bottom, and this time type "w myfile.safe". You get back something like

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myfile.safe 3 lines, 64 characters

Are you worried what would have happened if your boss had an important file named "myfile.safe"? Did you just overwrite that file with a bunch of stupid "brown fox" gibberish? Can you do ANYTHING right?

Stop sweating. It wouldn't have happened. Try it again. Type " $\underline{:}$ ", then " \underline{w} myfile.safe". See? It won't overwrite an existing file unless you type "w!". You might also want to know that if vi says a file is read-only, but you should be able to write it anyway 'cause you are the superuser, the "w!" trick fixes that, too.

3.2 Warning!

That won't save you from complete stupidity. If you had started this session by giving the name of a real file (like "vi /etc/inittab"), and then had deleted a bunch of lines and added a bunch of new ones, and then typed ":w" (with nothing else, no name, just the bare "w"), vi would have happily, efficiently, and mercilessly overwritten /etc/inittab with your changes. The theory here is that you saw what you were doing, so you must know what you were doing. So be it.

But let's say you messed up the file and you don't want to write it, you just want to quit. Let's try it: mess up this file a little more. Delete a line, add a line, it doesn't matter, just do something. Now do the ":" again, and type "q" (for "quit").

Gotcha again. But notice that vi has given you a hint about what to do. It tells you that you need to type ":quit!" to get out. Actually, you just need ":q!", but you can type it out if it makes you feel better.

That's it. You know the basics. I wish you'd learn more, 'cause it's worth it, but if this is all you can take, it is enough. Quick review and we're out of here:

i	insert
0	open
dd	delete line
X	remove characters
u	undo
p	put
:W	write file
:w!	write absolutely
:q	quit after saving (combine with ":wq")

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:q!	quit without saving

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3.3 vi Quick Reference

STARTING AND QUITING VI			
vi	starts vi without a named file to save to.		
vi filename.txt	start vi on an existing file (or supply name to save to if no file yet exits.		
<esc> key</esc>	puts you in edit mode if you weren't already there (the following commands only work in edit mode).		
:q!	quit vi WITHOUT SAVING		
:wq	write (save) to supplied file name and quit		
<esc>-ZZ</esc>	also saves and quits		
:w newfile.txt	write to a new file and don't quit (still editing newfile.txt)		
:wq newfile.txt	write to a new file and quit2) CURSOR MOVEMENTh <j ^l="" vk=""></j>		
^ or 0	move cursor to start of line		
\$	move cursor to the end of the line		

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<ctrl> G</ctrl>	indicates current line number of file where cursor currently is		
<pre><ctrl> F</ctrl></pre>	moves cursor ahead one page		
<ctrl> B</ctrl>	moves cursor back one page		
<pre><shift> H</shift></pre>	moves cursor to top of screen		
<pre><shift> L</shift></pre>	*		
	moves cursor to bottom of screen		
1G	move to line 1		
G	moves to last line		
W	advances by a word (W doesn't stop at punctuation)		
b	backs up by a word (B as well)		
е	go to the end of a word		
BASIC EDITING			
i	puts you in insert mode, press <esc> to exit</esc>		
I	^ then i		
a	insert mode, but appending after cursor		
А	\$ then a		
0	insert mode, opening new line below where you are		
0	insert mode, opening new line above where you are		
u	undo		
х	etes a single character; 5x deletes next 5 characters		
J	deletes end-eof-line character (does a "Join" of current line with next line)		
	repeats last editing command		
r	replaces current character with another		
CW	changes remainder of current word to whatever you type; <esc> to end edit</esc>		
/word	finds occurrence of 'word' in the file		
n	finds next occurrence of 'word'		
dd	deletes line		
3dd	deletes 3 lines (from this line down)		
23,50d	deletes lines 23-50, inclusive		
3Y	"yank" three lines (place in unnamed buffer)		

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	Ţ
"a3Y	Yank three lines to a buffer called 'a'
р	puts deleted (or yanked lines) below this line
P	puts deleted (or yanked lines) above this line
"ap	places lines from buffer 'a'
COMMAND LINE EDIT	TING
:%s/word/WORD	Replaces first occurrence of word with WORD on every line of the file
:1,\$s/word/WORD/g	From lines 1 to the end of the file change word to WORD (g means all occurrences on a line).
:1,23s/^word/WORD/	From lines 1 to 23 replace "word" at the beginning of any line with "WORD"
:1,23s/word\$/WORD/	From lines 1 to 23 replace "word" at the end of any line with "WORD"
:1,\$s/^//	From lines 1 to the end of the file remove "" beginning any of those lines.
:g/word/d	Does a "grep" to find lines with 'word', then deletes those lines
:1,\$s/\&/and/g	Replaces every occurrence of & (escaped) with "and"
:g/word/p	Does a "grep" to find lines with 'word', then prints those line to the screen
:3,15s/^/\#	Put a # at the beginning of lines 3 through 15
:%s/\$/;	Append a semicolon to the end of every line (note that "%" = "1,\$")
FILE OPERATIONS	
:r path\filename	read in the specified file starting on the next line
:w	save
:w filename	save as filename
:wq	save and quit
:q	quit if no modifications since last save
:q!	quit no matter what (without saving)
:e filename	edit another file without having to quit and restart vi

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4.0 Lab One Answers

4.1 Using the Windows Client

23. Telnet to host



24. Provide user id and password when prompted

```
Welcome to SuSE Linux 7.0 (s390) - Kernel 2.2.16 (2).

reslx390 login: train01

Password:
Have a lot of fun...
train01@reslx390:~ >
```

25. Logout or exit to terminate the session

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```
Welcome to SuSE Linux 7.0 (s390) - Kernel 2.2.16 (2).

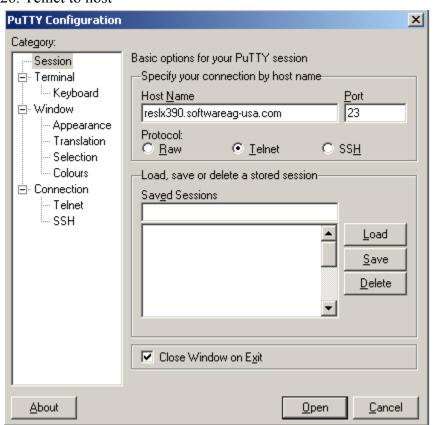
reslx390 login: train01
Password:
Have a lot of fun...
train01@reslx390:~ > logout

Connection to host lost.

C:\>_
```

4.2 Using Putty

26. Telnet to host



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27. Provide user id and password when prompted

```
Velcome to SuSE Linux 7.0 (s390) - Kernel 2.2.16 (2).

reslx390 login: train01
Password:
Last login: Tue Jul 10 18:56:31 from usanefe
Have a lot of fun...
train01@reslx390:~ >
```

28. Logout or exit to terminate session

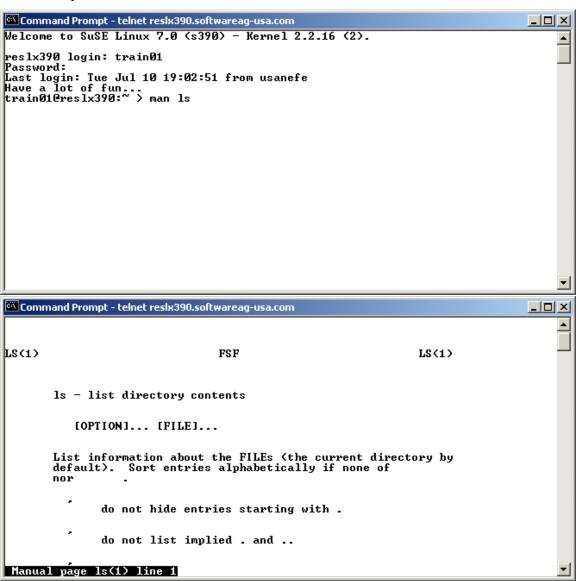
```
Velcome to SuSE Linux 7.0 (s390) - Kernel 2.2.16 (2).

reslx390 login: train01
Password:
Last login: Tue Jul 10 18:56:31 from usanefe
Have a lot of fun...
train01@reslx390:~ > exit.
```

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5.0 Lab Two Answers

29. Get help on the 1s command



(Press q to exit from "man")

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30. Find out who else is on the system

```
Command Prompt - telnet reslx390.softwareag-usa.com
                                                                                                         train010reslx390:~ > w
7:24pm up 7 days, 22:23,
USER TTY FROM
                                       3 users, load
LOGING
                                                      load average: 1.00,
                                                                                 1.00,
                                                                      JCPU
0.40s
                                                              IDLE
                                                                                 PCPU 
                                                                                         WHAT
                                                            7days
2:53m
                                                  2Jul 1
                                                                                0.25s
root
            console
                                                                                          -bash
usanefe pts/1 usanefe
train01 pts/2 usanefe
train01@res1x390:~>
                                                                                         -bash
                                                  4:19pm
                                                                      0.69s
                                                                                0.42s
                                                  7:20pm
                                                            1.00s
                                                                      0.71s
                                                                                0.23s
```

31. What is your current directory

```
Command Prompt - telnet reslx390.softwareag-usa.com

train01@reslx390:~ > pwd
/home/train01
train01@reslx390:~ >
```

```
Command Prompt - telnet resix390
                                                                                                                    train010res1x390:~ > ls -1 / >ls.output
train010res1x390:~ > cat ls.output
                                                                                                                           •
total 88
                                                         4096 Nov 30 2000 bin
4096 Mar 27 00:48 boot
4096 Nov 29 2000 cdro
drwxr-xr-x
drwxr-xr-x
                   2 root
                                     root
                    2 root
                                     root
drwxr-xr-x
                   2 root
                                                                            2000 cdrom
                                     root
                                                       12288 Jul 2 21:01 dev
drwxr-xr-x
                    6 root
                                    root
                                                         4096 Jul 10 16:29 etc
4096 Nov 29 2000 floppy
drwxr-xr-x
                  24 root
                                     root
drwxr-xr-x
                    2 root
                                    root
                                                         4096 Jul 10 16:29 home
4096 Feb 8 17:07 lib
6384 Nov 29 2000 lost+found
drwxr-xr-x
                  29 root
                                     root
                                                       4096 Feb 8
16384 Nov 29
drwxr-xr-x
                   5 root
                                    root
                   2 root
drwxr-xr-x
                                     root
                                                         4096 Jul
4096 Dec
                                                                      3 20:40 mnt
drwxr-xr-x
                    4 root
                                     root
                                                        4096 Dec 5 2000 opt 0 Jul 2 21:01 proc 4096 Jul 6 19:53 root 4096 Mar 27 00:31 sbin 4096 Mar 27 01:42 suse
drwxr-xr-x
                  15 root
                                     root
dr-xr-xr-x
                  50 root
                                     root
drwx--x--x
                   4 root
                                    root
drwxr-xr-x
                   5 root
                                     root
drwxr-xr-x
                   6 root
                                    root
                                                         4096 Jul 13 00:04 tmp
4096 Feb 22 14:45 usr
4096 Nov 30 2000 var
drwxrwxrwt
                    5 root
                                    root
                 22 root
drwxr-xr-x
drwxr-xr-x
                                    root
drwxr-xr-x 19 root
train010res1x390:~>
                                     root
```

32. Pipe the output of the ls -1 / command to ls.output and see what you get

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6.0 Lab Three Answers

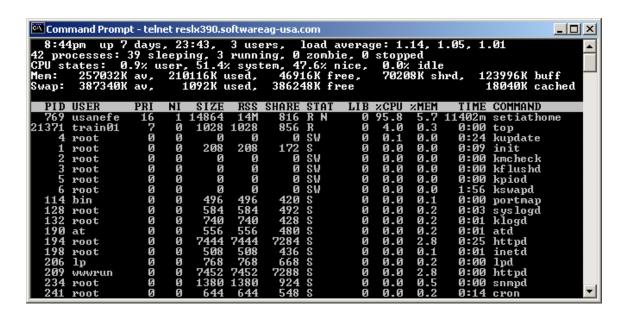
33. Use ps -ef to locate daemons

```
Command Prompt - telnet reslx390.softwareag-usa.com
                                                                                               _ U ×
train01Cres1x390:~
                          ps -ef
C STIME TTY
                   PPIĎ
UID
             PID
                                                     TIME CMD
                           Ø
Ø
boot
                             Ju102
                                                 00:00:09
                                                            init
root
                              Ju102
                                                 00:00:00
                                                            [kmcheck]
                              Ju102
                                                 00:00:00
                                                            [kf lushd]
root
                              Ju102
                                                 00:00:24
root
                                                            [kupdate]
                           Ø
                              Ju102
                                                 00:00:00
                                                            [kpiod]
root
                              Ju102
                                                 00:01:56
                                                           [kswapd]
root
                                                00:00:00 /sbin/portmap
00:00:03 /usr/sbin/syslogd
bin
                           Ø
                              Ju102
root
              128
                           Ø
                              Ju102
                                                 00:00:01 /usr/sbin/klogd
root
              132
                           Ø
                              Ju102
                                                                                -c 1
              190
194
198
206
                                                 00:00:01
                           Ø
                              Ju102
                                                           /usr/sbin/atd
lat.
                                                           /usr/sbin/httpd -f /etc/httpd/ht
                           И
                              Ju102
                                                 00:00:25
root
                        1
                           ő
                             Ju102
Ju102
Ju102
Ju102
Ju102
                                                00:00:01 /usr/sbin/inetd
00:00:00 lpd Waiting
00:00:00 /usr/sbin/httpd -f /etc/httpd/ht
00:00:00 /usr/sbin/snmpd -f
root
                       1
|1p
              209
234
241
276
                           ŏ
                     194
www.un
                           ŏ
root
                           Ō
                              Ju102
                                                 00:00:14
                                                            /usr/sbin/cron
boot
                                                 00:00:00 login
                              Ju102
boot
                     276
                                                 00:00:00
root
              318
                              Ju102
                                                            -bash
                             Ju102
                                                 00:00:00 db2wdog
              328
boot
                           0
0
0
db2as
                                                 00:00:05
                              Ju102
                                                           db2sysc
                                                 00:00:00 db2gds
              330
                     329
                              Ju102
root
db2as
              331
                     329
                              Ju102
                                                 00:00:00
                                                            db2ipccm
                           Õ
db2as
              332
                     330
                              Ju102
                                                 00:00:05
                                                            Scheduler
                                                 00:00:00 db2tcpcm
db2as
              333
                     329
                              Ju102
                     329
db2as
              334
                           Ø
                              Ju102
                                                 00:00:00 db2tcpdm
                                                 20:49:26
00:00:07
              769
usanefe
                              Ju102
                                                           setiathome -graphics
root
            2842
                             Ju103
                                                           /usr/sbin/rpc.mountd
           2843
20537
20538
root
                              Ju103
                                                 00:01:25
                                                           /usr/sbin/rpc.nfsd
                  198
20537
                                                 00:00:01
00:00:00
                           0
0
                                                            in.telnetd: usanefe
root
                             16:19
                             16:19
root
                                     pts/1
                                                           login
                                                                       usanefe
                           ő
Ø
                             16:19
16:29
           20539
20900
                  20538
                                                 00:00:00
usanefe
                                                            -bash
                                                 00:00:00 /usr/sbin/nscd
root
                             16:29
16:29
           20901
                  20900
                           Ō
                                                 00:00:00 /usr/sbin/nscd
boot
           20902
                  20901
                                                 00:00:00 /usr/sbin/nscd
broot
                             16:29
                  20901
           20903
                                                 00:00:00 /usr/sbin/nscd
boot
           20904 20901
                                                 00:00:00 /usr/sbin/nscd
boot
           20905
                  20901
                              16:29
                                                 00:00:00 /usr/sbin/nscd
root
           20906 20901
                                                 00:00:00
                                                            /usr/sbin/nscd
root
           21168 198
21169 21168
                                                 00:00:00
root
                                                            in.telnetd: usanefe
                           0 19:20 pts/2
0 19:20 pts/2
                                                 00:00:00
                                                           login
root
                                                                   -- train01
                                     pts/2
           21170 21169
train01
                                                 00:00:00
                                                            -bash
root 21196 241
train01 21220 21170
train01@res1x390:~>
                                                 00:00:00 [cron <defunct>]
                              19:30
                           0 19:30 pts/2
                                                 00:00:00 ps -ef
```

Or to be tricky...

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34. Use the top command to display system activity



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7.0 Lab Four Answers

35. Find out what devices are mounted and what file systems are in use

```
Command Prompt - telnet reslx390.softwareag-usa.com
                                                                                                                 train010res1x390:~ > df
Filesystem
                               1k-blocks
                                                      Used Available Usex Mounted on
                                                                 548084
395452
                                                                             71% /
82% /home
/dev/dasdb1
                                  1984260
                                                 1335380
/dev/dasdc1
                                  2365528
                                                 1849912
/dev/dasdd1
                                  2365528
                                                 1825176
                                                                  420188
                                                                             81% /suse
 /home/usanefe/ThinkBlue64-7.1-disc1a.iso
662122 662122
                                                                         0 100% /mnt/ThinkBlue64/CD1
 /home/usanefe/ThinkBlue64-7.1-disc2.iso
259506 25950
                                                   259506
                                                                         0 100% /mnt/ThinkBlue64/CD2
train01@reslx390:~ > mount
 /dev/dasdb1 on / type ext2 (rw)
/tev/dasdil on / type call and proc (rw)
/dev/dasdc1 on /home type ext2 (rw)
/dev/dasdc1 on /home type ext2 (rw)
/dev/dasdd1 on /suse type ext2 (rw)
devpts on /dev/pts type devpts (rw,gid=5,mode=0620)
/home/usanefe/ThinkBlue64-7.1-disc1a.iso on /mnt/ThinkBlue64/CD1 type iso9660 (r
w,loop=/dev/loop0)
/home/usanefe/ThinkBlue64-7.1-disc2.iso on /mnt/ThinkBlue64/CD2 type iso9660 (rw
,loop=/dev/loop1)
train010res1x390:~>
```

36. Examine a couple of /proc files using the more command

```
Command Prompt - telnet reslx390.softwareag-usa.com
                                                                                                 train010reslx390:~ > ls /proc
                 21168
21169
                           318
328
329
                                                                                 slabinfo
         20539
                                 6
769
                                                                 mdstat
         206
209
                                                  interrupts
                                                                 meminfo
                                                                                 stat
                 21170
21237
234
241
                                 bus
                                                  ioports
                                                                 misc
                                                                                 swaps
         20900
                           330
331
332
132
                                 cmdline
                                                                 modules
                                                  kcore
                                                                                 sys
         20901
                                                  kcore_elf
                                 config.gz
                                                                 mounts
                                                                                 tty
         20902
                                                                                 uptime
                                 cpuinfo
                                                  kmsg
                                                                 net
                           333
                                                                 partitions
198
         20903
                                                  ksyms
                                 dasd
                                                                                version
         20904
                           334
                                 devices
                                                  loadavg
                                                                 s390dbf
         20905
                  2843
                                 dma
                                                  locks
                                                                 scsi
                   / more /proc/cpuinfo
: IBM/S390
                                 filesystems
train010res1x390:~
vendor_id
# processors
bogomips per cpu: 164.24
processor 0: version = F
train01@res1x390:~ > mor
                           = FF,
                                    identification = 030950, machine = 7060
                       > more /proc/modules
4112 2 (autoclean)
20260 2 (autoclean)
n1s_cp437
                             20260
                                          (autoclean)
isofs
                             11156
35952
                                        õ
                                                          (unused)
vfat
                                          (autoclean)
                                        И
                                          (autoclean)
lfat.
                                                          [vfat]
                             21200
ctc
                                       1 (autoclean)
train01@res1x390:~ >
```

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8.0 Lab Five Answers

- 37. Explore the file system
 - cd /
 - <u>ls</u>
 - <u>cd</u> ~
 - pwd

```
command Prompt - telnet reskx390.softwareag-usa.com

train01@reslx390:^ > cd /
train01@reslx390:/ > ls
bin cdrom etc home lost+found opt root suse usr
boot dev floppy lib mnt proc sbin tmp var
train01@reslx390:^ > pwd
/home/train01
train01@reslx390:^ >
```

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9.0 Lab Six Answers

38. Explore your file system

- Identify 1st level directories
- Locate a symbolic link
- Use the umask command to display the current default

```
Command Prompt - telnet reslx390.softwareag-usa.com
                                                                                             train010res1x390:~ > umask
train010res1x390:~ >
trainU1@reslx39U:~ > ls -1 /lib
total 10780
                                             4096 Nov 29
                                                             2000 YaST
drwxr-xr-x
                2 root
                             root
                                               12 Nov 29
598 Nov 3
11 Nov 29
                                                             2000 cpp -> /usr/bin/cpp
2000 ld-2.1.3.so
2000 ld.so.1 -> ld-2.1.3.so
lrwxrwxrwx
                1 root
                             root
-rwxr-xr-x
                1 root
                             root
                                           367598 Nov
1rwxrwxrwx
                1 root
                             root
                                            21498 Nov
                1 root
-rwxr-xr-x
                             root
                                                             2000 libBrokenLocale.so.1
```

- 39. Create 3 files 'all', 'group', 'owner'
 - all give r/w permission to owner, group, and others
 - group give r/w permission to owner, group, and r/o to others
 - owner give r/w permission to owner, r/o to group, and none to others

```
Command Prompt - telnet reslx390.softwareag-usa.com
                                                                                                                                                train01Creslx390:~ > touch all group owner
train01Creslx390:~ > ls -l all group owner
                        1 train01 training
                                                                           0 Jul 10 20:01 all
0 Jul 10 20:01 group
0 Jul 10 20:01 owner
 -rw-rw-rw-
 -rw-rw-r--
                        1 train01
                                             training
rwr-r-- 1 train01 training 0 train01@res1x390:~ > chmod 0666 all train01@res1x390:~ > chmod 0664 group train01@res1x390:~ > chmod 0640 owner train01@res1x390:~ > ls -1 all group owner
                                                                           0 Jul 10 20:01 all
0 Jul 10 20:01 group
0 Jul 10 20:01 owner
                        1 train01
 -rw-rw-rw-
                                             training
                        1 train01
                                             training
                        1 train01
  rw-r--
                                            training
```

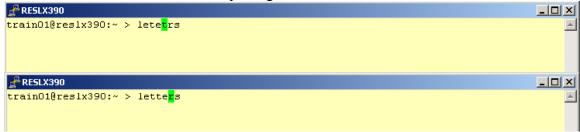
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- 40. Create a directory 'test' under your home directory
 - Create a file 'real.file' in this directory
 - Create a symbolic link in your home directory to 'real.file' called 'symbolic.link'

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10.0 Lab Seven Answers

- 41. What shell are you using (see screen shot under "Invoke the C shell")
- 42. Editing the command line:
 - Scrolling through past commands: Use the up arrow and down arrow cursor keys
 - Inserting/deleting characters on command line: Use the <CTRL-U>, ,
 <INS> keys
 - Use the <CTRL-T> to correct spelling errors on the command line



- 43. Try command completion:
 - Note what happens when you issue: <u>ls</u> /etc/pro<TAB>
- 44. Invoke the C shell (and then exit)

```
train01@reslx390:~ > echo $SHELL /bin/bash
train01@reslx390:~ > csh
reslx390 /home/train01> exit
exit
train01@reslx390:~ >
```

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11.0 Lab Eight

- 45. Use the 1s -a command to display directories
- 46. Use the -R option of 1s to display down file tree

```
₽ RESLX390
                                                                                train01@reslx390:~ > ls -a
             .dayplan.priv .jazz
                                     .susephone
                                                    .xcoralrc
                                                                      group
             .dvipsrc
                           .kermrc
                                     .tex
                                                    .xfm
                                                                      owner
                           .lyxrc
             .emacs
.Xdefaults
                                     .uitrc.console .xinitrc
                           .muttrc .uitrc.vt100
.nc_keys .uitrc.vt102
                                                    .xserverrc.secure test
.Xmodmap
             .exrc
                                     .uitrc.vt100
             .gimprc
                           .profile .uitrc.xterm
.bash_history .grok
                                                   .xtalkrc
             .history
                           .seyon
.bashrc
                                     .urlview
                                                    .zsh
.dayplan
                           .stonxrc .vimrc
                                                    all
train01@res1x390:~ > 1s -aR
             .dayplan.priv .jazz
                                     .susephone
                                                   .xcoralrc
                                                                      aroup
             .dvipsrc .kermrc .emacs .lyxrc
                                                                     owner
                                     .uitrc.console .xinitrc
.Xdefaults
             .emacs
                           .muttrc .uitrc.vt100 .xserverrc.secure test
             .gimprc .nc_keys .uitrc.vt102
                           .profile .uitrc.xterm
.bash history .grok
                                                   .xtalkrc
.bashrc
             .history
                                     .urlview
                           .seyon
                                                    .zsh
.dayplan
             .hotjava
                           .stonxrc .vimrc
                                                    all
./.grok:
./.hotjava:
. .. properties
./.seyon:
. .. phonelist protocols script.CIS script.PCBoard script.QWK script.unix startup
. .. Apps Graphics Hosts Toolbox magic xfmdev xfmrc
./test:
  .. real.file
trainO1@reslx390:~ >
```

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47. Use cat to display a file

```
₽ RESLX390
train01@reslx390:~ > cat .profile
# .profile is read for all login shells
# all other interactive shells will read .bashrc
# So read .bashrc also from .profile and make all changes to .bashrc.
# Then you should always have your correct setup.
test -z "$PROFILEREAD" && . /etc/profile
if test -f ~/.bashrc; then
       . ~/.bashrc
# some people don't like fortune. If you have humor, please enable it by
# uncommenting the following lines.
#if [ -x /usr/bin/fortune ] ; then
#
     /usr/bin/fortune
#
     echo
#fi
train01@reslx390:~ >
```

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48. Use more to display a file one page at a time

```
RESLX390
                                                                                      train01@reslx390:~ > more .bashrc
# Bash knows 3 diferent shells: normal shell, interactive shell, login shell.
# ~/.bashrc is read for interactive shells and ~/.profile is read for login
# shells. We just let ~/.profile also read ~/.bashrc and put everything in
test -z "$PROFILEREAD" && . /etc/profile
# Some people like DOS like aliases
if test -f /etc/profile.dos ; then
        . /etc/profile.dos
#alias hilbert='finger @hilbert.suse.de'
#export EDITOR=/usr/bin/pico
#export NNTPSERVER=news.suse.de
# commands common to all logins
if ! [ $TERM ] ; then
    eval 'tset -s -Q'
    case $TERM in
      con*|vt100) tset -Q -e ^?
    esac
fi
# nearly no known program needs $TERMCAP - 'Slang'-programs get confused
# with a set $TERMCAP -> unset it.
# unset TERMCAP
# Some programs support several languages for their output.
# If you want them to use german, please uncomment the following line.
#export LANG=de_DE.ISO-8859-1
--More--(66%)
```

49. Erase the link 'symbolic.link', erase the 'test' directory and its contents, then erase the 'all', 'group', and 'owner' files.

```
# RESLX390

train01@reslx390:~ > rm symbolic.link

train01@reslx390:~ > rm -rf test

train01@reslx390:~ > ls

all group owner

train01@reslx390:~ > rm all group owner

train01@reslx390:~ > ls

train01@reslx390:~ > ls
```

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12.0 Appendix C. How to Speak 'Strine

(Courtesy of www.twi.ch & http://australia-online.com/diction.html.)

If you want to pass for a native of Australia try speaking slightly nasally, shortening any word of more than two syllables and then adding a vowel to the end of it, making anything you can into a diminutive (even the Hell's Angels can become mere bikies) and peppering your speech with as many expletives as possible.

12.1 Common Words

Arvo

Afternoon. "The Sarvo" means this afternoon, as in "Seeya the sarvo". On Xmas morning a lot of people go to the beach to test out their new prezzies. But by the early arvo, they're at home stuffing themselves with Chrissie din-dins!

Avagoodweegend

Classic Aussie farewell comparable to American TGIF, basically means "Have a good weekend!"

Bend the Elbow

To have a drink - pretty well self-explanatory!

Bickie

Rhymes with "sticky". Literally means a biscuit, but Aussie bickies are more like American cookies, and American biscuits are more like Australian scones (pronounced like the "Fonz"!)... go figure!

Bloody

Universal epithet: the great Australian adjective. Used to emphasize any point or story. Hence "bloody beauty" (bewdy!) or "bloody horrible" or even "absabloody-lutely"!

Bludger

Lazy bastard, definitely an insult in Oz. Originally thought to be someone who lives off the earnings of a call girl. In conversation, the verb 'to bludge' is most commonly used like the US 'to bum' a cigarette.

Bob's Yer Uncle

"Everything is OK" or "Everything's Sweet" or "Going according to plan". Similar phrase includes: "She's apples!"... Bob may refer to Australia's long-serving Prime Minister, Sir Robert "Bob" Menzies.

Bon-Bons

Christmas Crackers. Special party favours which are essential on the Christmas table. Shaped like big lollies, their contents always include a corny joke or riddle, small plastic toy and a paper party hat (which must be worn by all who attend Chrissie dinner, even guests)

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Bonzer

Pronounced "bonza" - grouse, great, excellent.

Boxing Day

December 26th. Public holiday and traditional outdoor barbie day. Major Aussie sporting events kick off on this day including the 'Sydney to Hobart' and the 'Melbourne Test'.

Chew the Fat

To talk, engage in pleasant conversation, to have a chinwag.

Chook

Chicken. Often served barbecued at fancy turns (parties). If your hostess is befuddled and/or overcome by trying to do too many things at once, one might say she was "running around like a chook with its head cut-off!"

Chrissie

Christmas. By now you probably realize that Aussies like to shorten any words they can by adding an "o" or "ie" or "y". No bloke named Christopher would be called Chrissie, probably 'Chrisso' or 'Toffa'.

Crack a Tinnie

Means to open up a can of beer major pastime during Aussie silly season.

Dial

Face. If some says to put a 'smile on your dial' it basically means to cheer up, she'll be right, mate.

Dunny

The toilet, W.C., or bathroom. If someone busting to know where the dunny is, tell 'em to "follow their nose to the thunderbox".

Esky

Portable icebox or cooler - it's always a good idea to have one in the boot (trunk) of your car stocked with some cold ones (ice cold tubes) just in case the party's bar runs dry.

Fair Dinkum

Kosher, the real thing - as in "Fair Dinkum Aussie" (true blue Australian original). Often used by itself as a rhetorical question to express astonishment verging on disbelief ... "Fair Dinkum, mate?" (you' ve got to be kidding, haven't you?)

Full as a Goog

Completely filled with food (and drink). A 'Goog' is an egg (sometimes called a "googie egg").

G'day

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Universal greeting, used anytime day or night, but never as a farewell. Pronounced "gud-eye", usually followed by "mate" (mite) or a typically strungtogether "howyagoinallright" (= how are you today, feeling pretty good?)

Good Onya

Omnipresent term of approval, sometimes ironic, offering various degrees of heartfelt congratulations depending on inflection. Indispensable during Aussie small talk - substitute "really, oh yeh, aha, etc."

Good Tucker

Excellent food. After pigging out at Chrissie lunch, it's polite to tell your hosts how good the tucker was.

Grouse

Rhymes with "house" and means outstanding, tremendous. Can be applied universally to all things social ... "grouse birds (women), grouse band, in fact, grouse bloody gay and hearty (great party!)"

Happy as Larry

Fortunate, lucky. Who "Larry" is may forever be lost at the bottom of the Katherine Gorge.

Holls

Vacations or 'holidays'. Since most Aussies get at least 4 weeks 'holls' every year they usually take 2 or 3 of them at Chrissie which is our biggest family get together time (like US Thanksgiving).

Hooroo

Pronounced "who-roo"... means "see ya later", make sure you don't say g'day when meaning goodbye - it's a dead giveaway you're not a true blue Aussie battler!

Laughing Gear

Mouth. Common phrase is "Wrap your laughing gear around this one" i.e. Have a drink!

Lolly

A sweet or candy. But to "Do Your Lolly" means to get agitated and angry, similar to "Spit the dummie"

Mate

Friend, associate, or anyone you can't remember the name of

Melbourne Test

Game of cricket played by Australia's national cricko team versus visiting country usually starting on Boxing day. The game lasts for up to 6 days, and is watched religiously on the TV (like a 5 day Superbowl)

Ocker

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Pronounced "ocka" - Typical uncultivated Australian, similar to American "redneck".

Paralytic

Extremely drunk. Not good form too early on at a bash (party) especially if you end up having an "up & under" or "chunder" (puking or throwing-up while inebriated).

Plonk

Wine. Never used to describe the other main alcoholic beverage at an Australian social occasion - beer, i.e. the golden nectar, throat charmer, ice cold tube, etc.

Poets Day

Friday. Stands for P*ss off early, tomorrow's Saturday.

Prezzie

A present or gift. If you've been a good little vegemite you'll probably get lots of bonza prezzies.

Pull your head In!

Use sparingly, since this equates a rather annoyed "shut up & mind your own business". Only say this to the host if you know you're leaving (or off like a bride's nightie).

Raw Prawn

Not necessarily an uncooked shrimp! If someone says "Don't come the Raw Prawn with me, mate" it basically means "Don't try to fool me or rip me off" or "Rack off Noddy, you're being a tad offensive".

Rels/Relos

Relatives, The family members you probably only see every Christmas!

Ripper

Pronounced "rippa" means beaut, tippy-tops, grouse - that bloke named "Jack" in the old Dart (England) was certainly not ripper!

Sheila

Archaic term now only found in Paul Hogan movies

Shout

To shout means to buy the next round (of drinks usually), so if someone says "It's your shout, mate" don't get vocal, just buy a couple of tinnies (cans of beer) and remain sociable, the next few drinks are someone else's responsibility!

Silly Season

Traditional summer holiday period, kicking off in December and running through to our national holiday Australia Day, January 26th (similar to the US July 4th).

Spit The Dummie

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A "dummie" is Australian for a child's pacifier. Your Hostess will not usually have cause to spit the dummie (completely lose her cool or go ballistic) if you and your mates can act like proper toffs (refined gentlemen) and enjoy the soiree!

Starters

This is the Australian for Hors D'oeuvres or "appetizers". Aussies call their appetizers "entrees". Also your first drink of the day, hence the ubiquitous question heard throughout the Silly Season: "What's for Starters?" Also commonly called a "Heart Starter".

Strewth

This is pronounced "sta-ruth". A general exclamation of disbelief or shock: i.e. "Strewth, would ya hava go at that, then?!" (My goodness, can you believe what we're seeing!?)

Sydney to Hobart

World famous Australian ocean Yacht race that commences on Boxing Day in Sydney Harbour boats from all around the world race down the East Coast across Bass Strait to our Apple Isle, "Tassie" (Tasmania).

The Go

Equivalent to the "rage" or current trendy thing. The latest trend in clothing or whatever is described as "all the go!"

Whinge

Rhymes with "hinge" as in door! Means to complain incessantly or to "belly ache" (= "whine"). Whingers are not fun to have around and definitely not likely to be asked back again to the next party. If you must whinge, keep it amongst your good mates!