**Split into computer and not pages!!!**

**CS 302 Final Exam**

**Users**

0) Did you put your name on the test?  
 a) Yes I did  
 b) Yes I want to to fail the class, so I skipped it

1) Suppose I’m entered in /etc/shadow, but not in /etc/passwd. What happens? (Chose as many as you want, zero or more.)  
 I can log in but not see my file  
 I can log in but not run sudo  
 I can log in but not change my password  
 I cannot log in

2) I have a user. When they type 'ls' they see '1002' where they ought to see their own name as the owner of their files. Which of these might fix this?

a) chmod b) Move the file to their home dir c) edit /etc/passwd d) chown

3) Make me a user named `bryar`, password ‘lucas’ home directory `/home/ethan`

**Apache**

1) (true/false) If you add files to your web site, you have to restart Apache in order to serve them. In other words, if I add a file the web site, to see that file as a web client I’ll need to restart the Apache server.

2) In On gabe’s computer (gabe.org) in the Apache config, it says “Alias /anthony /craig”. What URL should someone go to to access this alias? Your answer should start with http://

3) Every user on my system want it to be such that when people access the URL [http://*server/~user*](http://server/~user) it shows them the web site at /home/*user*/Web. How should I set this up?  
 (a) Documentroot (b) Alias (c) Userdir (d) CustomLog

4) Every time someone looks at a computer screen showing stuff from your web site, there will be how many hits on your server?  
 a) zero or more b) one or more c) two or more

**Samba and NFS**

1) (Yes/No)Is it possible to access any Samba share without having a Samba password?

2) (True/False) NFS can only share files to clients it is directly connected to. NFS cannot share files where the clients are multiple networks hops away. NFS cannot access files where the client and the server are on different ethernets.

3) I created a Samba account for Tom (usename: tom). What command did I type?

**Command Line**

1) Show me on the screen the number of files in /etc and below, including all subdirectories recursively.

2) The command “wc -c /var/log/\*” produces both output lines and error lines. I only want to see the output lines, and not the error lines. What command should I type?

3) What does "wc < ls" do? Pick exactly one.  
 a) Make a file called ls  
 b) Run a command named ls  
 c) Read from a file called ls  
 d) Run commands called wc and ls.

4) In the command line "daniel | jef | gavin |tylor" where those are all legitimate commands, which command produces the output shown on the screen?  
 daniel jef gavin tylor

5) Show me every file in your home directory that contains in it’s data (not filename) the three consecutive letters “the”. SHOW ME.

**Shell Scripting**

1) What does this code print?  
 A=it.txt  
 for b in A  
 do  
 echo $A $b  
 done

2) Write me any shell script that prints the load average, and ONLY the load average. It should only print ONE number. Hint: See the command uptime.

**Postfix**

1) (Good/Bad) Adam (adam@adam.com) wants to send email to avery[@avery.org](mailto:joshua@lalonde.org). Adam has “mydestinations = avery.org” in his /etc/postfix/main.cf file. Is this good or bad?

2) (Yes/No) Zane ([zane@zane](mailto:zane@zane).com) wants all mail destined for him to be actually sent to gabby@gabbie.com. Mail originating from the local computer and mail originating from far away .. any email on the internet that directed towards [zane@zane.com](mailto:zane@zane.com) should end up at gabby@gabbie.com . Can a single .forward file on gabbie.com accomplish this?

3) Where is received email stored for the user ‘jake’? Name a file or directory. (Hint: There are two reasonable answers)

4) Which server should receive the email when you send to batman@ justiceleague.com? (Yes, justiceleague.com is a real server) Hint: Look it up!

**Misc**

1) Given the directory information listed below, who can delete /home/turman/tmp/it?

(a) Just truman (b) anyone but truman (c) Anyone

d------rwx 2 truman truman 4096 Apr 30 22:11 /home/thruman/tmp

-rw------- 1 truman truman 0 Apr 30 22:11 /home/truman/tmp/it

2) (NFS/Anything Else )What might you use an X509 Certificate for

4) How big is the hard drive on your computer. I want an answer in gigabytes.

4) Why does a bicycle need a pickle?  
 a) Yes, my name is on the test.  
 b) Yes, I will definitely put my name on the test.