



5. Close the typescript by typing [CTRL] + D . Reboot the system (into multiuser mode) and log into it as a **root**.

Add to the typescript by

**script -a /root/midterm**

6. Create a new Linux group "**midgrp**" and a new user with name "**Mid One**", login name "**midone**", with home directory being **/mid209/midone** that belongs to the newly created group "**midgrp**" and has the password "**test1mid**". What commands did you use, what files did you have to modify?

7. Log into the system as the newly created user on a different console. Make a typescript of the rest of this session by:

**script midtermuser**

8. While logged in as user **midone** create a file named **notgood** in midone's home directory. The content of the file should be as follows:

```
#!/bin/csh
```

```
cat /etc/shadow
```

Make the file executable by the owner. Does it show you the content of the shadow file? Explain. Make all necessary changes (as root if necessary) in order for it to work.

9. Using commands **ps** , **head** or **tail** , and **sort** find out which 2 processes use most of the CPU time and most of the system memory. Write the command/pipe line(s) used below.

8. As user **midone** do whatever is necessary to periodically (every 10 minutes) store output of **ps auxw** into file **/mid209/midone/pslog**. Log the date and time to the same file at the same time as well. What file(s) or command(s) did you modify / run ? How?

Close the typescript by [CTRK] + D and log user **midone** out.

9. As user **root** find all files under */usr* and */mid209* that have the **setuid** bit set. Write the command(s) you used below.

10. Without removing user **midone** make sure that **midone** cannot log into the system. How would you let him/her know that he/she is in trouble and needs to talk to sysadmin? Do it and describe it below.

13. List all modules currently running on your system. What commands did you use? What are the modules running doing?

14. Create new DOS filesystem on a floppy disk provided. Mount it under */mnt* and copy on it **all** files created and modified during the midterm. What commands did you use? Close root's typescript and copy */root/midterm* on the floppy one more time. On the floppy disk create a file that has name the same as is your name . Umount the floppy and turn it in together with this report.