

HW 2

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1. (10 points) Consider the `ls -l` output below, label the output appropriately:

```
drwxr-xr-x 2 aviv scs 4096 2013-12-22 10:57 demo/  
-rw-r--r-- 1 aviv scs 13454 2013-12-22 10:56 text.dat
```

2. (10 points) Describe the permission strings below in plain English? What permission does the owner have, group have, and other have?

- (a) `rw-rw-rw-`

Owner: read, write execute. Group: read, write. Global: read, write.

- (b) `r-x--x--x`

Owner: read, execute. Group: execute. Global: execute.

- (c) `rw-rw-r-`

Owner: read, write. Group: read, write. Global: read.

3. (20 points) Using the man page (or **trying it yourself in the terminal**) describe the resulting action of the following `chmod` commands.

- (a) `chmod a+x file`

Gives all users (User, group, and global) execute privileges.

- (b) `chmod u+x file`

Gives the user execute privileges.

- (c) `chmod a-w file`

Takes away all write privileges.

- (d) `chmod g+rw file`

Gives group read and write privileges

4. (10 points) On a lab computer, type `groups` into the shell. What groups are you in?

I am in the "cfy gp mids" group

5. (10 points) In what configuration is the following information found?

- (a) The list of all users on the systems?

Stated in the `/etc/passwd` file. Last name, First name, Midn, USN, etc

- (b) The default group of a user?
- Question not worded well. Unsure of what it is asking
- (c) The list of all groups and members (perhaps not the default group?)
- Question not worded well. Unsure of what it is asking
6. (20 points) On a lab computer, run `~aviv/bin/ic221-up` and change into the `hw/02` directory. There is a program called `runme`. Change the permission of this program such that it is executable and run it.
- (a) What command did you use to run it?
- I used the `./` command to run the program
- (b) What is the output of running the command?
- The output is 4 cat looking things. With the middle two looking at each other.
7. (20 points) Use `ls` to list the directory `~aviv/ic221-hw/hw02/` where you'll find a secret file called `secret` that you **do not** have permission to execute.
- (a) Explain how you could still execute this program despite not having group or global execute permissions?
- I copied the secret program into my own directory which in turn made me the owner of the file
- (b) Do so, and what is the output?
- The output is a submarine