Command Line Fu

Manipulating Users		
useradd [options] *username*	add new user	username is always the last thing in the command
usermod [options] *username*	modify an existing user	username is always the last thing in the command
userdel [-r] *username*	delete an existing user	-r to remove all the user's files

```
useradd -c "full name" -e 2017-10-31 -G group1,group2 -d /home/mydir/user1 -m user1
```
-c comment, usually used for full name
-e expiry date in format YYYY-MM-DD
-d set user's home directory
-m create home directory
-G secondary groups user is a member of (groups must exist)

```
usermod -a -G group3 username
```
-a add instead of overwrite (this will add username to group3 without modifying any other groups)

```
usermod -G group3 username
```
this will overwrite all the secondary groups so that username is only a member of group3

```
userdel -r username
```
delete username and all their files

chage (change age)

```
chage -E 2020-01-01 -I 14 -m 5 -M 90 -W 7 linuxuser
```
-E Set the expiry date
-I Set the number of days of inactivity after a password has expired before the account is locked.
-m Set the minimum number of days between password changes
-M Set the maximum number of days during which a password is valid.
-W Set the number of days of warning before a password change is required

```
chage -l linuxuser
```
list all the values for linuxuser

Manipulate Groups		
groupadd *groupname*	creates a new group	
groupdel *groupname*	deletes an existing group	

Setting Password		
passwd *username*	set password for username	requires root privilege
passwd	set password for current user	no special privs needed

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Other important things

Show the groups a user belongs to:

```
id alex
uid=500(alex) gid=504(alex) groups=504(alex),500(zoo),502(mammals)
```

/etc/passwd - contains username,comment,home directory, shell
/etc/shadow - contains encrypted passwords, account and password expiry dates
/etc/group - contains group names and the users that belong to the groups
/home - default location for newly created accounts
/bin/bash - default shell for newly created accounts