

Working with Users, Groups & File Permissions

- Users
 - useradd [options] <username>
 - -m : make (create) home dir with skeleton files (/etc/skel). If you forget the -m, it is best to delete the user and start over.
 - -c : full name – originally comment
 - -e : expiration date
 - -s : default shell
 - -d : home directory
 - userdel [options] <username>
 - -r removes user's files – best practice
 - passwd <username> : prompts you for a new password; you do not have to enter the old one
 - usermod [options] <username> : user modify
 - -l new_username old_username : rename (login name)
 - -a -G group1,group2 username: append a user to multiple groups.
- Groups
 - groupadd <groupname>
 - groupdel <groupname>
 - groupmod -n <new_name> <old_name>
 - gpasswd -a <user> <group> : add user to group (add a user to a single group)
 - gpasswd -d <user> <group> : delete user.
 - * groups : shows all groups the current user (you) belongs to
 - * groups <username> : shows all groups the user belongs to.
 - * cat /etc/group : shows all groups and which user belong to each group
- File Ownership (change owner)
 - chown <user> <file> : file ownership
 - chown <user>:<group> <file> : file and group ownership
 - chown :<group> <file> : group ownership
 - chgrp <group> <file> : group ownership
- File Permissions (change mode - user, group, other)
 - chmod u+x <file> : add execute
 - chmod u=rwx, g-rx, o+r <file> : set user to rwx, substrate rx from group, add read to other
 - chmod -R 755 <folder> : rwx, r-x, r-x to folders and files recursively
- File Access Control List (FACL) – allows more than one user (owner) and one primary group

- `getfacl <file>` : will let you know if FACL is installed and enabled.
- `setfacl -m -u:<username>:rwx <filename>`
- `setfacl -m -g:<groupname>:rwx <filename>`