

Files and Directories

REDIRECTION(OUTPUT REDIRECTION)

- Your keyboard is your standard input (stdin) device, and the screen or a particular terminal window is the standard output (stdout) device.
- The redirection operators
- Output redirection with > and |

REDIRECTION(OUTPUT REDIRECTION)

- Sometimes you will want to put output of a command in a file, or you may want to issue another command on the output of one command. This is known as redirecting output.
- Redirection is done using either the ">" (greater-than symbol), or using the " | " (pipe) operator which sends the standard output of one command to another command as standard input.

REDIRECTION(OUTPUT REDIRECTION)

- cat test1
 some words
- cat test2some other words
- cat test1 test2 > test3
- cat test3some wordssome other words

REDIRECTION(INPUT REDIRECTION)

In another case, you may want a file to be the input for a command that normally wouldn't accept a file as an option. This redirecting of input is done using the "<" (less-than symbol) operator.

REDIRECTION(THE >> OPERATOR)

- Instead of overwriting file data, you can also append text to an existing file using two subsequent greater-than signs:
- Example:cat wishlistmore moneyless work

REDIRECTION(THE >> OPERATOR)

- date >> wishlist
- cat wishlist

more money

less work

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The date command would normally put the last line on the screen; now it is appended to the file wishlist.

- Change the file permissions.
- Specifications = u user, g group, o other, + add permission, - remove, r read, w write, x execute.

- chmod <specification> filename
- chmod (u,g,o)(+,-,=)(r,w,x)

- Add read permission for the owner and the group.
 - chmod go+r myfile
- Allow all users to read, write or execute myfile.
 - chmod a +rwx myfile

 Remove read permission from the group and others.

chmod go -r myfile

- Assigns multiple permissions.
- chmod u=rw,og=x myfile

- Change the permissions of a directory recursively.
- To change permission of a directory and everything within that directory, use this command.
- chmod -R <specification > dirname

Examples:

First, we grant the group execute permission and then we take write permission away from the owner:

Is -I file 1.txt

chmod g+x file1.txt

Is -I file 1.txt

• chmod u-w file 1.txt

Is -I file.txt

FILE OWNERSHIP COMMANDS (CHOWN, CHGRP)

Change ownership of a file to user owner1.
 chown owner1 filename

 Change primary group ownership of file filename to group grp_owner.

chgrp grp_owner filename

FILE OWNERSHIP COMMANDS (CHOWN, CHGRP)

- Change primary group ownership of directory dir-name to group grp_owner recursively.
- To change group ownership of a directory and everything within that directory, use this command.

chgrp -R grp_owner dir-name