UNIX and Shell From the Start

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Connecting

ssh (secure shell) to one of our servers using:

- ▶ PuTTY on windows with login.netsoc.tcd.ie
- using a terminal on unix \$ssh name@login.netsoc.tcd.ie

The Basics

If you have never worked with a UNIX shell then these next few slides are the slides to get you started.

We will go through:

- ► Is
- ▶ cd
- ► rm
- rmdir
- mkdir
- ► mv
- ▶ cp

But first; What are we looking at?

What is this?

paddy@cube:~\$

This is your prompt. It shows your username (paddy), the hostname (cube), and the directory (~: tilde means home).

Is lists the contents of a directory.

in this example the -al are the arguments passed to ls.

- -a means all and will list hidden files in a directory
- -I means long listing format and will list more info about each file

output:

-rw-r---- 1 paddy paddy 3047 Aug 19 22:51 .bashrc shows the privileges, number of files in a folder, user etc.

cd will change directory.

If we do ls -a we can se that there are folders called . and .. "." means the current directory and ".." means the directory that is above this one. to change into a different directory:

cd .. or cd < foldername from ls>

rm removes a file forever.

WARNING: UNIX is not like windows and does not have a recycling bin. If you rm something it will be gone forever. Usage:

- -r means recursively and will delete all file in a folder and the folder
- -v means verbal and will list files as it deletes
- -f means force

mkdir

Creates one or more new folders

\$mkdir <filename> <filename2> <etc>

mν

Moves or renames files or directorys.

The argument -f can be used to force.

To rename a file or directory:

\$mv file1 file2

\$mv directory1 directory2

Move a file to a directory:

\$mv file1 Directory

If the folder you are moving a file to has a file with the same name it will be deleted first. See WARNING about rm.

Copy a file

\$cp file1 file2

Copy to a different directory:

\$cp file directory

man

man is your friend.

man is the manual for commands in UNIX.

If you want to know how to use Is for example then type :

\$man ls

This will show you a list of arguments for Is along with things like the Author and usage etc.

man should be your first port of call, yes even before Google.

ls