



COMP9311 DATABASE SYSTEMS

LINUX BASIC COMMANDS & ENVIRONMENT SETUP

- **www home address of 9311:**
- <http://www.cse.unsw.edu.au/~cs9311>
- <https://webcms3.cse.unsw.edu.au/COMP9311/20T3/>

Login CSE servers

- Vlab (<https://taggi.cse.unsw.edu.au/Vlab/>):
 - Web browser (<http://vlabgateway.cse.unsw.edu.au>)
 - VNC client program

Linux Commands

pwd

```
$ pwd
```

“Print working directory”

```
weill % pwd  
/import/glass/4
```

Linux Commands

ls

```
$ ls
```

“List directory”

```
weill % ls  
Desktop Documents Downloads Music Pictures
```

```
$ ls -l
```

Long listing.

Linux Commands

cd

```
$ cd ../
```

“Change directory”

```
weill % pwd  
/import/glass/4  
weill % cd ../  
weill % pwd  
/import/glass
```

Linux Commands

■

```
$ pwd
```

```
$ cd .
```

```
$ pwd
```

“.” means “this directory”

```
weill % pwd  
/import/glass/4  
weill % cd .  
weill % pwd  
/import/glass/4
```

Linux Commands

ls -a

```
$ cd
```

```
$ ls -a
```

Can combine options

```
$ ls -la
```

```
weill % ls
adams cage chopin glass kamen liszt ravel reed
weill % ls -la
total 9
dr-xr-xr-x 10 root root 512 Sep 11 22:15 .
drwxr-xr-x 31 root root 4096 Sep 11 20:05 ..
dr-xr-xr-x 2 root root 512 Sep 11 22:13 adams
dr-xr-xr-x 2 root root 512 Sep 11 22:15 cage
dr-xr-xr-x 2 root root 512 Sep 11 22:15 chopin
dr-xr-xr-x 2 root root 512 Sep 11 22:14 glass
dr-xr-xr-x 2 root root 512 Sep 11 22:12 kamen
dr-xr-xr-x 2 root root 512 Sep 11 22:15 liszt
dr-xr-xr-x 2 root root 512 Sep 11 22:11 ravel
dr-xr-xr-x 2 root root 512 Sep 11 22:14 reed
```

Linux Commands

~

```
$ pwd
```

```
$ cd ~
```

```
$ pwd
```

“~” means “home directory”

Linux Commands

- **Paths**

Absolute: starts with “/”

Relative: doesn't

Linux Commands

cp

```
$ cp [options] source dest
```

“Copy”

```
$ cp -r source dest
```

“recursive copy (including hidden files)”

Linux Commands

rm

```
$ rm [options] file
```

“remove ”

```
weill % ls  
a.txt  b.txt  c.txt  
weill % rm a.txt  
weill % ls  
b.txt  c.txt  
weill % rm b.txt c.txt  
weill % ls  
weill %
```

Linux Commands

cat

```
$ cat file1 [file2...]
```

“display the content of text files and to combine several files to one file ”

```
weill % cat a.txt  
This is text A.  
weill % cat b.txt  
This is text B.  
weill % cat a.txt b.txt  
This is text A.  
This is text B.
```

Linux Commands

mv

```
$ mv [options] source dest
```

“move files and directories”

```
weill % ls
a.txt  b.txt  folder
weill % mv a.txt folder/
weill % ls
b.txt  folder
weill % ls folder/
a.txt
```

Linux Commands

ssh

```
$ ssh (IP/Domain_name)
```

“securely connect to a remote server”

```
$ ssh greig
```

```
wagner % hostname  
wagner  
wagner % ssh greig  
greig % hostname  
greig
```

Environment Setup

Follow the instructions of [Lab1](#).

- Getting to Grieg and making your /srvr/ Directory
- Setting up your PostgreSQL Server

Connect to the server: Other ways

- SSH (https://taggi.cse.unsw.edu.au/FAQ/Logging_In_With_SSH/):
 - ❑ Connect to the server: login.cse.unsw.edu.au
 - Mac: Terminal
 - Windows: PuTTY