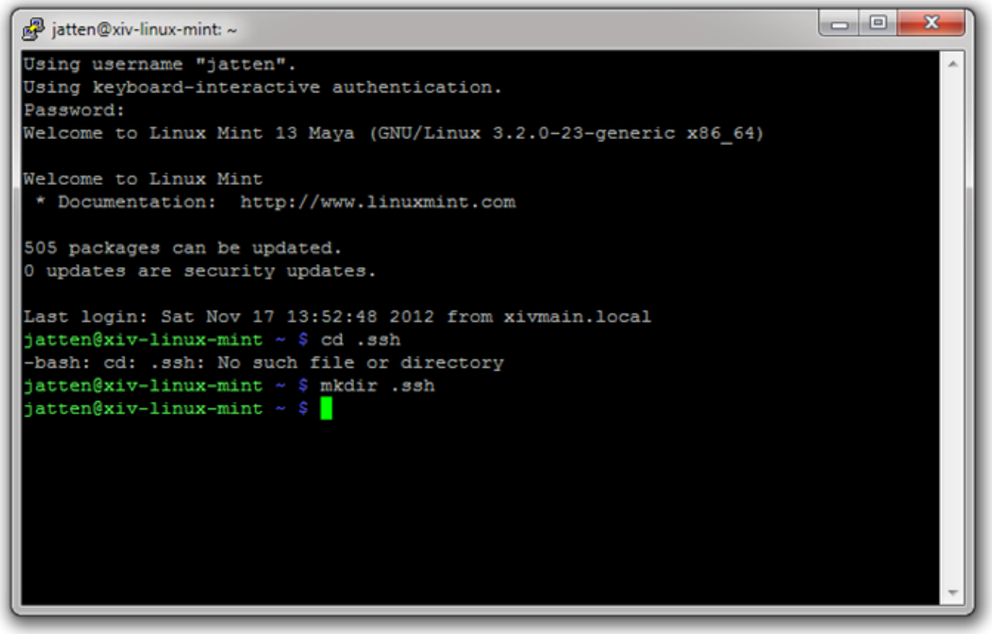
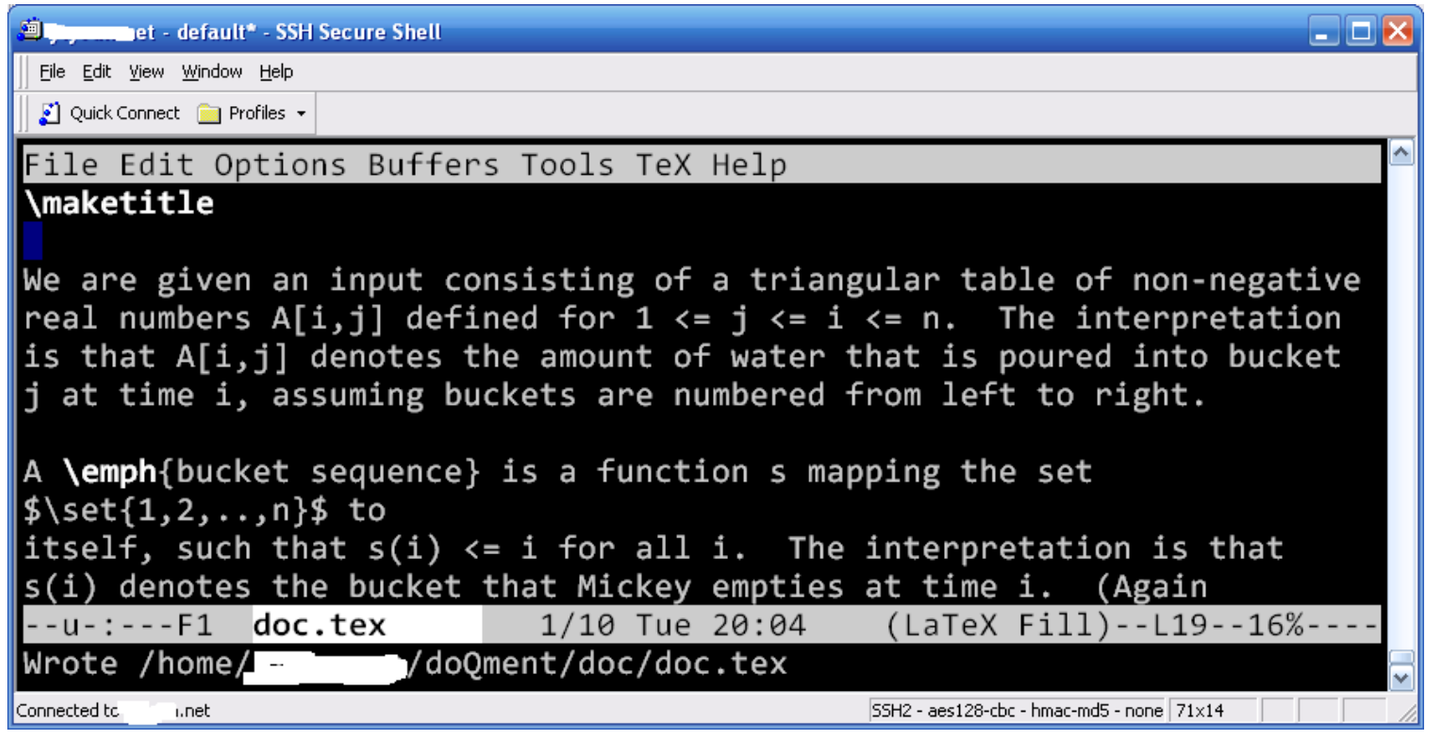
Manipulating Data on Linux

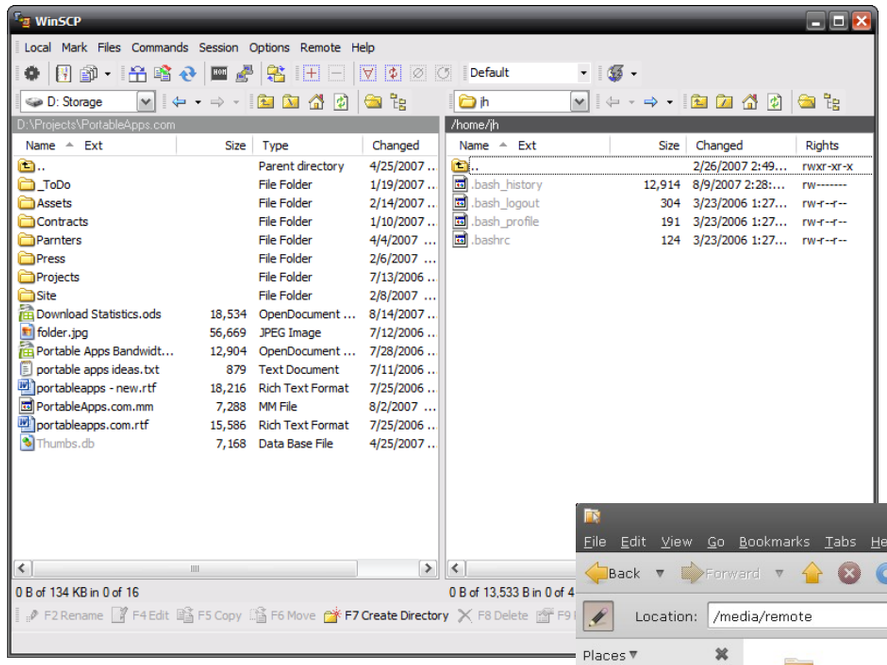
- Login to your linux server via SSH
  - putty, SSH Secure Shell

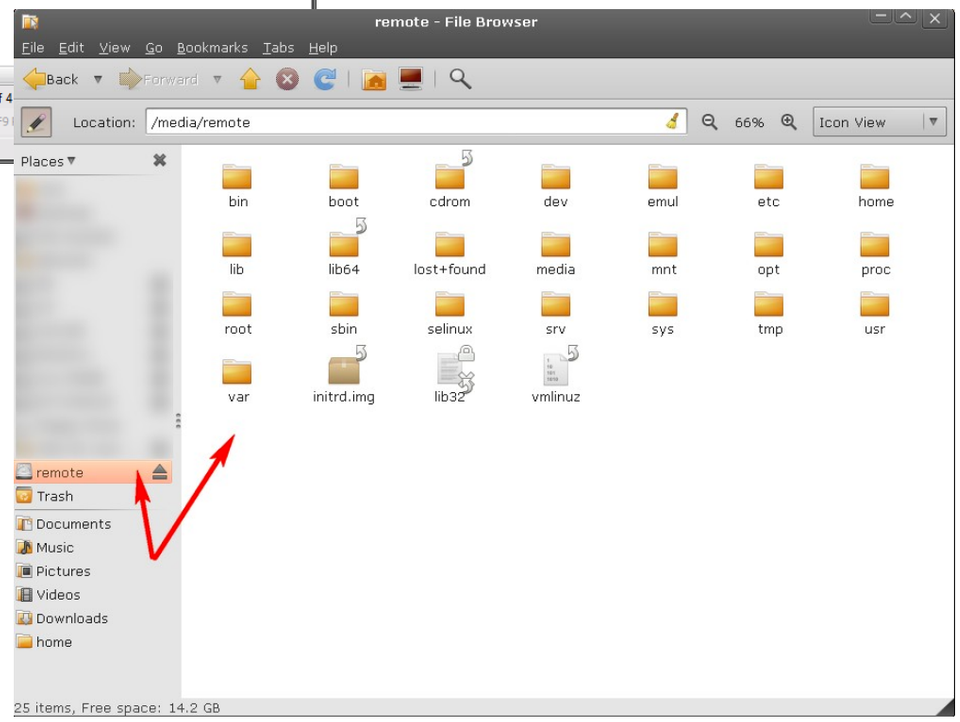




Manipulating Data on Linux

- Getting your data to and from the Linux host
  - scp, WinSCP
  - sshfs
  - ftp
  - wget, curl





Manipulating Data on Linux

- Simple data files - examination and slicing
  - What kind of file is it?
    - file anonymous
  - How big is the file?
    - ls -lh red+blue_all.txt
    - wc -l red+blue_all.txt

Manipulating Data on Linux

- Viewing and Manipulating the data
  - more & less
  - head & tail

Short answer:

Just use `less` and forget about `more`

Longer version:

`more` is old utility

Manipulating Data on Linux

- Viewing and Manipulating the data
  - cat

```
bash > cat greens.txt
turquoise
putting
sea
leafy
emerald
bottle

bash > cat blues.txt
cerulean
sky
murky
democrat
delta

# now concatenate the files
bash > cat greens.txt blues.txt >greensNblues.txt

# and dump the concatenated file
bash > cat greensNblues.txt
turquoise
putting
sea
leafy
emerald
bottle
cerulean
sky
murky
democrat
delta
```

Manipulating Data on Linux

- Viewing and Manipulating the data
  - paste

```
bash > cat file_1
aaa bbb ccc ddd
eee fff ggg hhh
iii jjj kkk lll

bash > cat file_2
111 222 333
444 555 666
777 888 999

bash > paste file_1 file2

aaa bbb ccc ddd         111 222 333
eee fff ggg hhh         444 555 666
iii jjj kkk lll         777 888 999
```