

Unix Administration

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Unix Administration

0) Warmup

Collect all bash/shell commands you know.

Basic navigation / file management

- pwd
- cd
- ls
- mv
- mkdir
- cp
- rm, rmdir, rm -r
- touch - creating a file

Open files

- display file.png
- open file.
- evince file.pdf

Ownership and permission

- chmod
- chown

Displaying file content / operations on file content

- more, less (display a file on the terminal), cat (concatenates files/ view file)
- head, tail

File manipulation

- sed (file manipulation), diff (shows differences between files),

Process management

- top, ps (show all running processes)
- kill
- CTRL + C to stop the current process

Secure data transfer

- ssh, scp

Miscellaneous

- echo, grep
- man - display manual
- exit - exiting a process
- sleep
- >
- shutdown - shutting down the computer
- clear

- which
- source - run a shell script
- psql (program name to run the program) - gives you access to the Postgres shell
- nano - Opens a text editor

1) Set environment variables

- Global variables
- Windows: Manually via settings
- Linux: ~/.bashrc

```
export <name>=value
```

- Mac:
 - older version: ~/.bash_profile
 - newer version: ~/.zshrc
 - you can check by running

```
echo $0
```

in your terminal

2) Create a cronjob

Maybe next week.

3) Write an install script for EC2

Put the following into a shell script (file with .sh extension) and run `*source <filename>.sh` inside the EC2 instance

```
'''Create a startup script for AWS Metabase'''

# Download the Metabase file
wget https://downloads.metabase.com/v0.35.4/metabase.jar

# Update apt-get
sudo apt-get update -y
sudo apt-get upgrade -y

# Install java
sudo apt-get install -y openjdk-11-jre-headless

# Start Metabase
sudo nohup java -jar -DMB_JETTY_PORT=80 metabase.jar &
```