NASA 2016 HW4 SA Part

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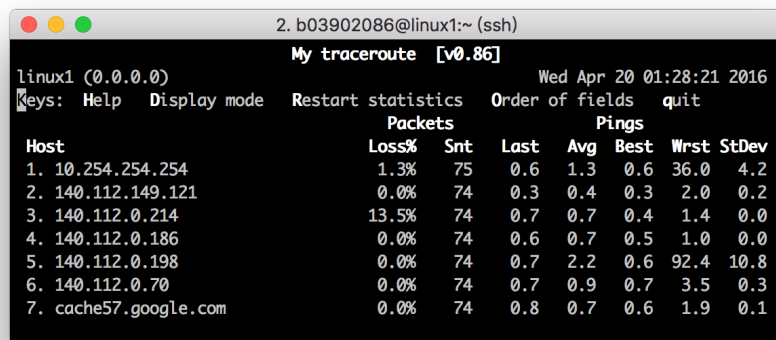
1.

Reference: http://www.tecmint.com/ifconfig-command-examples/

```
sudo ifconfig eth0 192.168.217.1 netmask 255.255.255.0 broadcast
192.168.217.254
```

2.
```
mtr www.google.com
```


3.

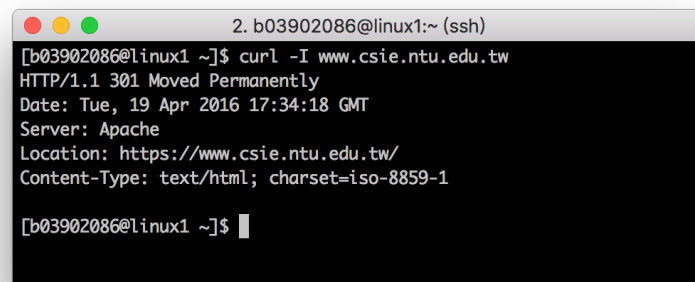Reference: http://alvinalexander.com/linux-unix/how-view-http-headers-command-line-curl-telnet

```
curl -I www.csie.ntu.edu.tw
```

4.

```
dig csie.ntu.edu.tw MX
```

```
[b03902086@linux1 ~]$ dig csie.ntu.edu.tw MX

; <<>> DiG 9.10.3-P4 <<>> csie.ntu.edu.tw MX
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 36116
;; flags: qr aa rd ra; QUERY: 1, ANSWER: 2, AUTHORITY: 3, ADDITIONAL: 4

;; OPT PSEUDOSECTION:
; EDNS: version: 0, flags:; udp: 4096
;; QUESTION SECTION:
;csie.ntu.edu.tw.                IN      MX

;; ANSWER SECTION:
csie.ntu.edu.tw.        600     IN      MX      1 ms.csie.ntu.edu.tw.
csie.ntu.edu.tw.        600     IN      MX      2 ms.csie.ntu.edu.tw.

;; AUTHORITY SECTION:
csie.ntu.edu.tw.        86400   IN      NS      ntuns.ntu.edu.tw.
csie.ntu.edu.tw.        86400   IN      NS      csman2.csie.ntu.edu.tw.
csie.ntu.edu.tw.        86400   IN      NS      csman.csie.ntu.edu.tw.

;; ADDITIONAL SECTION:
csman.csie.ntu.edu.tw.  600     IN      A       140.112.30.21
ntuns.ntu.edu.tw.       46737   IN      A       140.112.254.6
csman2.csie.ntu.edu.tw. 600     IN      A       140.112.30.12

;; Query time: 0 msec
;; SERVER: 140.112.30.21#53(140.112.30.21)
;; WHEN: 三  4月 20 01:36:07 CST 2016
;; MSG SIZE  rcvd: 188

[b03902086@linux1 ~]$
```

5.

References: http://note.tc.edu.tw/931.html

http://linux.die.net/man/8/ss

```
ss -n | grep :80
```

(The `netstat` command may be deprecated.)