

Network Administration/System Administration Homework #4

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System Administration

1.

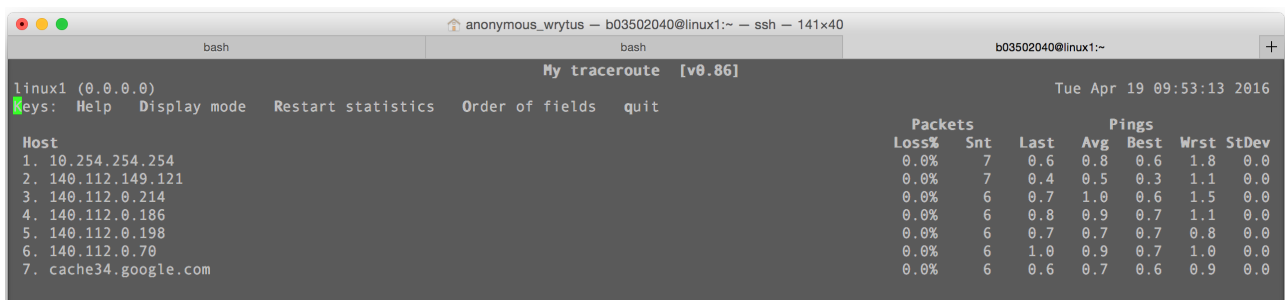
```
`ifconfig eth0 192.168.217.1 netmask 255.255.255.0`  
`route add default gateway 192.168.217.254`
```

REFERENCE:

(1) [<http://dreamtails.pixnet.net/blog/post/27029635-linux用指令設定ip,-netmask,-gateway>]

2.

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



REFERENCE:

(1) [[https://en.wikipedia.org/wiki/MTR_\(software\)](https://en.wikipedia.org/wiki/MTR_(software))]

3.

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

```
bash
b03502040@linux1 [~] curl -I www.csie.ntu.edu.tw
HTTP/1.1 301 Moved Permanently
Date: Tue, 19 Apr 2016 02:29:17 GMT
Server: Apache
Location: https://www.csie.ntu.edu.tw/
Content-Type: text/html; charset=iso-8859-1
b03502040@linux1 [~]
```

REFERENCE:

- (1) [<http://serverfault.com/questions/249483/shell-command-to-see-the-http-headers>]
- (2) [<http://osxdaily.com/2011/07/07/get-http-header-info-from-web-sites-using-curl/>]
- (3) [<http://web-sniffer.net/>]

4.

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

```
bash anonymous_wrytus - b03502040@i
bash
b03502040@linux1 [~] dig csie.ntu.edu.tw -t MX
; <<>> DiG 9.10.3-P4 <<>> csie.ntu.edu.tw -t MX
;; global options: +cmd
;; Got answer:
;; ->>HEADER<<- opcode: QUERY, status: NOERROR, id: 5369
;; 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.        14550   IN      A       140.112.254.6
csman2.csie.ntu.edu.tw.   600     IN      A       140.112.30.12
;; Query time: 3 msec
;; SERVER: 140.112.30.21#53(140.112.30.21)
;; WHEN: 二 4月 19 10:28:38 CST 2016
;; MSG SIZE rcvd: 188
b03502040@linux1 [~]
```

5.

``lsof -i :80` 或 `netstat -tulpn | grep :80``

REFERENCE:

(1) [<http://www.cyberciti.biz/faq/what-process-has-open-linux-port/>]