

NASA 2016 HW4 SA Part

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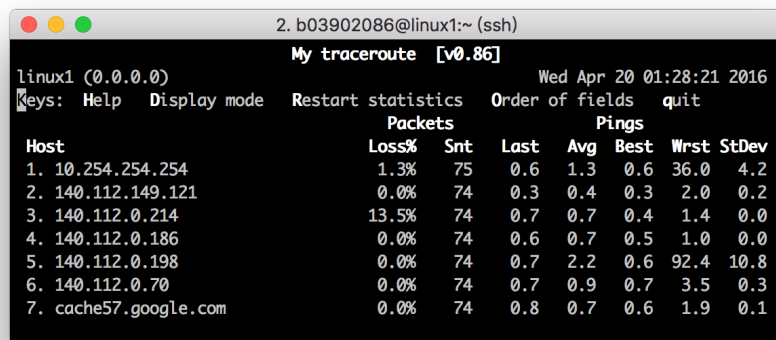
1.

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
```

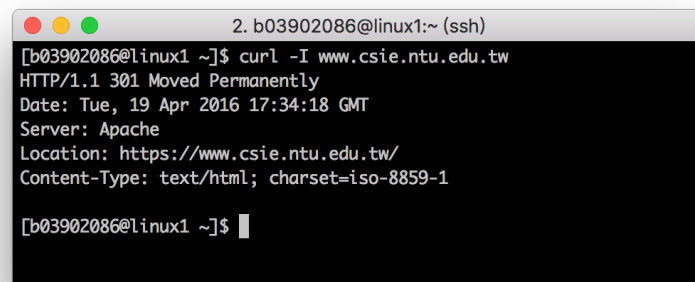


My traceroute [v0.86]							
linux1 (0.0.0.0) Wed Apr 20 01:28:21 2016							
Keys: Help Display mode Restart statistics Order of fields quit							
Host	Packets		Pings				
	Loss%	Snt	Last	Avg	Best	Wrst	StDev
1. 10.254.254.254	1.3%	75	0.6	1.3	0.6	36.0	4.2
2. 140.112.149.121	0.0%	74	0.3	0.4	0.3	2.0	0.2
3. 140.112.0.214	13.5%	74	0.7	0.7	0.4	1.4	0.0
4. 140.112.0.186	0.0%	74	0.6	0.7	0.5	1.0	0.0
5. 140.112.0.198	0.0%	74	0.7	2.2	0.6	92.4	10.8
6. 140.112.0.70	0.0%	74	0.7	0.9	0.7	3.5	0.3
7. cache57.google.com	0.0%	74	0.8	0.7	0.6	1.9	0.1

3.

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

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



```
[b03902086@linux1 ~]$ curl -I www.csie.ntu.edu.tw  
HTTP/1.1 301 Moved Permanently  
Date: Tue, 19 Apr 2016 17:34:18 GMT  
Server: Apache  
Location: https://www.csie.ntu.edu.tw/  
Content-Type: text/html; charset=iso-8859-1  
[b03902086@linux1 ~]$
```

4.

dig csie.ntu.edu.tw MX

```
2. b03902086@linux1:~ (ssh)
[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.)