# 1 CheatSheet: Linux Networking

LINUX

Updated: November 3, 2019

- PDF Link: cheatsheet-networking-A4.pdf, Category: linux
- Blog URL: https://cheatsheet.dennyzhang.com/cheatsheet-networking-A4
- $\bullet$ Related posts: CheatSheet: Linux File, CheatSheet: Linux Process, #denny-cheatsheets

File me Issues or star this repo.

# 1.1 Linux Networking

	Name	Comment
-	Examine network nic traffic	ethtool -S eth0
	Check system configuration	sysctl -a
	Ports for well-known services	cat /etc/services
	Reference	SSH CheatSheet, Tcpdump CheatSheet, CheatSheet: Curl & Wget
	Reference	CheatSheet: Linux File, CheatSheet: Linux Process, CheatSheet: Linux Networking

### 1.2 HTTP

Name	Command
See HTTP request statistics	httpstat https://www.google.com (brew install httpstat)
Monitor HTTP URLs	SaaS: uptimerobot.com
Examine web page performance	SaaS: pingdom.com
Test webpage from different browsers	SaaS: www.browserling.com
Export local http service to Internet	SaaS: ngrok.com
Reference	CheatSheet: Curl & Wget, GitHub: free-for-dev

# 1.3 TCP

Name	Comment
List all listening tcp ports	netstat -tunlp
Port scan for a given host	sudo nmap -0 192.168.1.103, SaaS: viewdns.info/portscan
Add 97ms latency to eth0	Link: tc, tc qdisc add dev eth0 root netem delay 97ms
Check tc status	tc -s qdisc
Remove tc rule	tc qdisc del dev eth0 root netem
Check network speed	SaaS: www.att.com/speedtest
Tcp manual	man 7 tcp
Reference	Tcpdump CheatSheet

#### 1.4 Route

Name	Comment	
List route rules	route -n, netstat -nr	
Add default rule	route add default gw 10.0.0.1 netmask 255.255.255.0 dev eth0	
Add route rule	route add -net 0.0.0.0 gw 192.168.1.1 netmask 0.0.0.0 dev eth0	
Del route rule	route del -net 192.168.3.0 netmask 255.255.255.0 dev eth1	

#### 1.5 DNS

Name	Comment
Check dns naming	sudo nslookup www.google.com
Print routing table	netstat -rn
List all the router hops	traceroute
DNS lookup utility	host www.google.com
DNS pin test	SaaS: viewdns.info
Websites To Register DNS	Link: Google Domain DNS, Link: GoDaddy, Link: Amazon Route 53

### 1.6 CDN

Name	Command		
CDN services	cloudflare, isDelivr		

# 1.7 TCP sockets workflow

Name	Comment
create a new anonymous socket	s = socket( <parameters>)</parameters>
Bind tcp port to a socket	<pre>bind(s, <local ip:port="">)</local></pre>
Create a socket to remote endpoint	<pre>connect(s, <remote ip:port="">)</remote></pre>
Create local socket and make it eligible to take requests	listen(s,)
Accept client requests	s2 = accept(s)
Read n bytes from a socket	<pre>n = read(s, buffer, n)</pre>
Write n bytes to a socket	<pre>n = write(s, buffer, n)</pre>
Close a socket	close(s)
Shutdown stdin and stdout/stderr for a socket	shutdown(s, <side>)</side>
Read socket options	<pre>getsockopt(s,)</pre>
Change socket options	setsockopt(s,)

# 1.8 More Resources

License: Code is licensed under MIT License.

https://github.com/trimstray/the-book-of-secret-knowledge

Updated: November 3, 2019