# 1 CheatSheet: Linux Networking

LINUX

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

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# 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 TCP

Name	Comment
Port scan for a given host	sudo nmap -0 192.168.1.103, SaaS: viewdns.info/portscan
Simulate network latency test	$\operatorname{tc}$
Add 97ms latency to eth0	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

## 1.3 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

#### 1.4 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

#### 1.5 CDN

Name	Command	
CDN services	cloudflare, jsDelivr	

# 1.6 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	<pre>shutdown(s, <side>)</side></pre>
Read socket options	<pre>getsockopt(s,)</pre>
Change socket options	setsockopt(s,)

# 1.7 More Resources

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

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