1 CheatSheet: Linux Networking   LINUX

- PDF Link: cheatsheet-networking-A4.pdf, Category: linux

- Blog URL: `https://cheatsheet.dennyzhang.com/cheatsheet-networking-A4`

- Related posts: CheatSheet: Linux File, CheatSheet: Linux Process, #denny-cheatsheets

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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 -O 192.168.1.103`, SaaS: viewdns.info/portscan
Simulate network latency test	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>)`
Bind tcp port to a socket	`bind(s, <local IP:port>)`
Create a socket to remote endpoint	`connect(s, <remote IP:port>)`
Create local socket and make it eligible to take requests	`listen(s, ...)`
Accept client requests	`s2 = accept(s)`
Read n bytes from a socket	`n = read(s, buffer, n)`
Write n bytes to a socket	`n = write(s, buffer, n)`
Close a socket	`close(s)`
Shutdown stdin and stdout/stderr for a socket	`shutdown(s, <side>)`
Read socket options	`getsockopt(s, ..)`
Change socket options	`setsockopt(s, ..)`

1.7   More Resources

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