1 CheatSheet: SRE/DevOps/Sysadmin   INTERVIEW

- PDF Link: cheatsheet-sre-A4.pdf, Category: interview

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

- Related posts: CheatSheet: Leetcode For Code Interview, CheatSheet: Well-Known Papers For IT Industry, #denny-cheatsheets

File me Issues or star this repo.

1.1 Reference

Name	Summary
Cheatsheet	CheatSheet: Leetcode For Code Interview, CheatSheet: Common Code Problems & Follow-ups
Cheatsheet	CheatSheet: System Design For Job Interview, CheatSheet: SRE/DevOps/Sysadmin
Cheatsheet	CheatSheet: Behavior Questions For Coder Interview, Shell CheatSheet

1.2 Good Mindsets

Num	Name	Summary
1	First thing: `Stop The Bleed`	
2	Pets VS Cattles	
3	Fix a process VS Fix a problem	
4	Evaluate Business Impact First	
5	Prevention VS Treatment	
6	Postmortem Culture	
7	Understand Workflow & Use Cases	Crucial for trouble shooting
8	Automation VS Convention	
9	Principle Of Least Privilege	
10	Design Tools VS Use Tools	Operational knowledge is not good enough

1.3 Top 20 Linux Basic Questions

Num	Name	Summary
1	What is /proc directory?	
2	What happens, when opening `https://www.google.com`	
3	What happens, when running "ls -l *"	
4	What happens, when pressing "Ctrl + c"	
5	How to solve ssh "Connection refused" errors?	
6	How does sudo work? Given `sudo`, why people may need `su`?	
7	Explain the output of `top` command	
8	Explain the output of `sar` command	
9	How to daemonize a process?	
10	What are common scenarios of linux kernel panics?	
11	What are coredump and kdump?	
12	Program startup process in userspace	Link: Program startup process in userspace
13	Explain init.d workflow	
14	Explain Linux Boot Process	
15	What's your favorite shell and why?	Link: Bash vs Zsh
16	Figure out who has logged to server now and previously?	w, last, lastb; /var/run/*tmp
17	How to choose RAID levels for different scenarios?	
18	Forget root password. How to reset it?	
19	What is init program?	
20	How linux signal trap works? And what signals can't be ignored	

1.4 Top 20 Linux Advanced Questions

Num	Name	Summary
1	Whether it's possible to sniff HTTPS traffic? And why?	
2	Why is I/O uninterruptible?	
3	Compare to Linux process, what things containers can't support?	
4	What is localhost and why would ping localhost fail?	
5	How does the Linux kernel handle a system call	Link: System calls in the Linux kernel
6	How do you feel about systemd?	Init processes start serially, long booting time
7	How to quickly crash an linux machine?	
8	How to deprovision a user completely?	
9	How reliable `history` command is? And how to alleviate the problem?	
10	Explain the workflow of "docker stop $container$_{id}$"	
11	With `bg` in one terminal, `jobs` doesn't show in another terminal	
12	How to setup http proxy with SLA for different traffic?	
13	What's your wishlist for linux?	
14	What's your ideal monitoring system in your imagination?	

1.5 Top 10 Networking Questions

Num	Name	Summary
1	Difference between switch and router?	L2, L3
2	What is a DNS amplification attack?	
3	Difference between L2 and L3 switch?	
4	What is TCP SYN scan? How it's conducted?	
5	Which port ICMP is using?	Neither TCP or UDP. Link
6	Proxy server vs Loadbalancer. Proxy server vs Reverse proxy server	
7	Brief introduction about 802.1x	
8	List `all methods` which can stop one ip ssh to the server	
9	Explain how iptable routing rules works	

1.6 SRE/System Engineering

Num	Name	Summary
1	Reference	Github: chassing/linux-sysadmin-interview-questions, Github: 0xAX/linux-insides
2	Reference	Link: Facebook Production Engineering Internship Interview
3	Reference	Link: SRE INTERVIEW QUESTIONS

1.7 More Resources

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   `https://syedali.net/engineer-interview-questions/`