

# Reading materials

There are hundreds of materials on Linux

Some of them are:

<https://daphnia.com/powercoders-linux-intro.html>

[LPI Learning Materials](#) for LPIC-101 and LPI-102 exams

[Cumulus Networks Linux 101](#): Chapters 1 and 2

Shell:

<https://missing.csail.mit.edu/2020/course-shell/> and command line

<https://missing.csail.mit.edu/2020/command-line/>

Shell scripting:

<https://missing.csail.mit.edu/2020/shell-tools/>

VI/VIM:

<https://missing.csail.mit.edu/2020/editors/>

You will find the same topics covered in many other articles, presentations.

Specific topics:

SystemD:

<https://www.digitalocean.com/community/tutorials/systemd-essentials-working-with-services-units-and-the-journal>, [Daemons](#)

SELinux:

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/9/html-single/using\\_selinux/index](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/9/html-single/using_selinux/index)

Commands:

<https://github.com/LeCoupa/awesome-cheatsheets/blob/master/languages/bash.sh>

<https://explainshell.com/>

## Commands

- cd, ls, cat, du, df
- touch, vi
- aliases and .bashrc
- cp, mv, rm, ln
- which and find

- chown, chmod, sudo
- grep, awk, sort
- dmidecode, lscpi, parted -l

#### Advanced:

- strace
- Documents in

[https://access.redhat.com/documentation/en-us/red\\_hat\\_enterprise\\_linux/9](https://access.redhat.com/documentation/en-us/red_hat_enterprise_linux/9)

## Topics

Apart from topics provided in 'learning materials':

1. Hardware - CPU, RAM, NICs and how they can be checked in Linux?

-System load: top, free

-Performance of Networking and storage

2. Linux Firewall (iptables/nftables) and firewalld
3. File System privileges and SELinux
4. STDOUT, STDIN, STDERR
5. SysV init and SystemD
6. User Space/Kernel space,system signals, strace
7. Restarts/power off

## Exercises

1. How 'll' command is implemented in Linux?
2. Use most/all commands listed in [Commands](#) above on your Linux system. Redirect output of each command to the same text file (so need to **append** output to the file rather than overwrite the file all the time). Send the resulting file to Konstantin via Slack.