

# Homework 2

April 2, 2020

```
[3]: pwd
```

```
/home/jupyter-zhannaspace
```

```
[70]: cd /  #goto root directory
```

```
[5]: pwd
```

```
/
```

```
[71]: ls -F1  # list all dirs and files
```

```
bin/  
boot/  
cdrom/  
dev/  
etc/  
home/  
initrd.img@  
initrd.img.old@  
lib/  
lib64/  
lost+found/  
media/  
mkdir/  
mnt/  
opt/  
proc/  
root/  
run/  
sbin/  
snap/  
srv/  
swap.img  
sys/  
tmp/  
usr/  
var/
```

vmlinuz@  
vmlinuz.old@

[34]: `cd /bin`

[35]: `ls -F`

bash*	journalctl*	readlink*
btrfs*	kbd_mode*	red*
btrfsck@	kill*	rm*
btrfs-debug-tree*	kmod*	rmdir*
btrfs-find-root*	less*	rnano@
btrfs-image*	lessecho*	run-parts*
btrfs-map-logical*	lessfile@	rzsh@
btrfs-select-super*	lesskey*	sed*
btrfstune*	lesspipe*	setfacl*
btrfs-zero-log*	ln*	setfont*
bunzip2*	loadkeys*	setupcon*
busybox*	login*	sh@
bzcat*	loginctl*	sh.distrib@
bzcmp@	lowntfs-3g*	sleep*
bzdiff*	ls*	ss*
bzegrep@	lsblk*	static-sh@
bzexe*	lsmod@	stty*
bzfgrep@	mkdir*	su*
bzgrep*	mkfs.btrfs*	sync*
bzip2*	mknod*	systemctl*
bzip2recover*	mktemp*	systemd@
bzless@	more*	systemd-ask-password*
bzmore*	mount*	systemd-escape*
cat*	mountpoint*	systemd-hwdb*
chacl*	mt@	systemd-inhibit*
chgrp*	mt-gnu*	systemd-machine-id-setup*
chmod*	mv*	systemd-notify*
chown*	nano*	systemd-sysusers*
chvt*	nc@	systemd-tmpfiles*
cp*	nc.openbsd*	systemd-tty-ask-password-agent*
cpio*	netcat@	tar*
dash*	netstat*	tempfile*
date*	networkctl*	touch*
dd*	nisdomainname@	true*
df*	ntfs-3g*	udevadm*
dir*	ntfs-3g.probe*	unlockmgr_server*
dmesg*	ntfscat*	umount*
dnsdomainname@	ntfscluster*	uname*
domainname@	ntfscmp*	uncompress*
dumpkeys*	ntfsfallocate*	unicode_start*
echo*	ntfsfix*	vdir*

ed*	ntfsinfo*	wdctl*
efibootdump*	ntfsls*	which*
efibootmgr*	ntfsmove*	whiptail*
egrep*	ntfsrecover*	ypdomainname@
false*	ntfssecaudit*	zcat*
fgconsole*	ntfstruncate*	zcmp*
fgrep*	ntfsusermap*	zdiff*
findmnt*	ntfswipe*	zegrep*
fsck.btrfs*	open@	zfgrep*
fuser*	openvt*	zforce*
fusermount*	pidof@	zgrep*
getfacl*	ping*	zless*
grep*	ping4@	zmore*
gunzip*	ping6@	znew*
gzexe*	plymouth*	zsh*
gzip*	ps*	zsh5*
hostname*	pwd*	
ip*	rbash@	

```
[37]: cd /boot
```

```
[38]: ls -F
```

```
config-4.15.0-88-generic      initrd.img-4.15.0-91-generic
config-4.15.0-91-generic     System.map-4.15.0-88-generic
efi/                          System.map-4.15.0-91-generic
grub/                          vmlinuz-4.15.0-88-generic
initrd.img-4.15.0-88-generic  vmlinuz-4.15.0-91-generic
```

```
[14]: file config-4.15.0-88-generic
```

```
config-4.15.0-88-generic: Linux make config build file, ASCII text
```

```
[39]: cd /cdrom
```

```
[40]: ls -F
```

```
[41]: pwd
```

```
/cdrom
```

```
[42]: ls -a
```

```
. .
```

```
[43]: cd /dev
```

```
[44]: ls -F
```

autofs	kmsg	sda1	tty3	tty6	ttyS30
block/	kvm	sda2	tty30	tty60	ttyS31
bsg/	lightnvm/	sg0	tty31	tty61	ttyS4
btrfs-control	log@	shm/	tty32	tty62	ttyS5
bus/	loop0	snapshot	tty33	tty63	ttyS6
char/	loop1	snd/	tty34	tty7	ttyS7
console	loop2	stderr@	tty35	tty8	ttyS8
core@	loop3	stdin@	tty36	tty9	ttyS9
cpu/	loop4	stdout@	tty37	ttyprintk	uhid
cpu_dma_latency	loop5	tty	tty38	ttyS0	uinput
cuse	loop6	tty0	tty39	ttyS1	urandom
disk/	loop7	tty1	tty4	ttyS10	usb/
dri/	loop-control	tty10	tty40	ttyS11	userio
ecryptfs	mapper/	tty11	tty41	ttyS12	vcs
fb0	mcelog	tty12	tty42	ttyS13	vcs1
fd@	mei0	tty13	tty43	ttyS14	vcs2
full	mem	tty14	tty44	ttyS15	vcs3
fuse	memory_bandwidth	tty15	tty45	ttyS16	vcs4
hidraw0	mqueue/	tty16	tty46	ttyS17	vcs5
hidraw1	net/	tty17	tty47	ttyS18	vcs6
hpet	network_latency	tty18	tty48	ttyS19	vcsa
hugepages/	network_throughput	tty19	tty49	ttyS2	vcsa1
hwrng	null	tty2	tty5	ttyS20	vcsa2
i2c-0	port	tty20	tty50	ttyS21	vcsa3
i2c-1	ppp	tty21	tty51	ttyS22	vcsa4
i2c-2	psaux	tty22	tty52	ttyS23	vcsa5
i2c-3	ptmx	tty23	tty53	ttyS24	vcsa6
i2c-4	pts/	tty24	tty54	ttyS25	vfio/
i2c-5	random	tty25	tty55	ttyS26	vga_arbiter
i2c-6	rfskill	tty26	tty56	ttyS27	vhci
i2c-7	rtc@	tty27	tty57	ttyS28	vhost-net
initctl@	rtc0	tty28	tty58	ttyS29	vhost-vsock
input/	sda	tty29	tty59	ttyS3	zero

[45]: `cd /etc`

[24]: `pwd`

/etc

[46]: `ls -F`

acpi/	inputrc	protocols
adduser.conf	iproute2/	python/
alternatives/	iscsi/	python2.7/
apache2/	issue	python3/
apm/	issue.net	python3.6/
apparmor/	java-11-openjdk/	python3.8/

apparmor.d/	kernel/	rc0.d/
appport/	kernel-img.conf	rc1.d/
apt/	landscape/	rc2.d/
at.deny	ldap/	rc3.d/
bash.bashrc	ld.so.cache	rc4.d/
bash_completion	ld.so.conf	rc5.d/
bash_completion.d/	ld.so.conf.d/	rc6.d/
bindresvport.blacklist	legal	rc.local
binfmt.d/	libaudit.conf	rcS.d/
byobu/	libnl-3/	resolv.conf@
ca-certificates/	libpaper.d/	rmt*
ca-certificates.conf	lighttpd/	rpc
calendar/	locale.alias	rsyslog.conf
cloud/	locale.gen	rsyslog.d/
console-setup/	localtime@	screenrc
cron.d/	logcheck/	securetty
cron.daily/	login.defs	security/
cron.hourly/	logrotate.conf	selinux/
cron.monthly/	logrotate.d/	sensors3.conf
crontab	lsb-release	sensors.d/
cron.weekly/	ltrace.conf	services
cryptsetup-initramfs/	lvm/	shadow
crypttab	machine-id	shadow-
dbus-1/	magic	shells
debconf.conf	magic.mime	skel/
debian_version	mailcap	sos.conf
default/	mailcap.order	ssh/
deluser.conf	manpath.config	ssl/
depmod.d/	mdadm/	subgid
dhcp/	mime.types	subgid-
dnsmasq.d/	mke2fs.conf	subuid
dnsmasq.d-available/	modprobe.d/	subuid-
dpkg/	modules	sudoers
environment	modules-load.d/	sudoers.d/
ethertypes	mtab@	supervisord.conf
fonts/	mysql/	sysctl.conf
fstab	nanorc	sysctl.d/
fuse.conf	netplan/	systemd/
gai.conf	network/	terminfo/
ghostscript/	networkd-dispatcher/	texmf/
glvnd/	NetworkManager/	thermald/
groff/	networks	timezone
group	newt/	tmpfiles.d/
group-	nsswitch.conf	ucf.conf
grub.d/	octave.conf	udev/
gshadow	opt/	ufw/
gshadow-	os-release@	updatedb.conf
gss/	overlayroot.conf	update-manager/

gtk-2.0/	pam.conf	update-motd.d/
gtk-3.0/	pam.d/	update-notifier/
hdparm.conf	papersize	vim/
host.conf	passwd	vmware-tools/
hostname	passwd-	vtrgb@
hosts	perl/	wgetrc
hosts.allow	pm/	X11/
hosts.deny	polkit-1/	xdg/
ImageMagick-6/	pollinate/	zsh/
init/	popularity-contest.conf	zsh_command_not_found
init.d/	profile	
initramfs-tools/	profile.d/	

[47]: `cd /home`

[48]: `ls -F`

azat/	jupyter-azat/	jupyter-nurlaura/
jupyter-admin/	jupyter-cubefiction/	jupyter-nurlaura2/
jupyter-aiana178/	jupyter-danenok/	jupyter-official-nanakai/
jupyter-aigerimuniat/	jupyter-darganius/	jupyter-orissim/
jupyter-aizadait/	jupyter-ekdana/	jupyter-tsagynysh/
jupyter-amayakof/	jupyter-inkar601/	jupyter-unisat/
jupyter-amirkhan/	jupyter-kkenzh/	jupyter-yeldana/
jupyter-arrayka/	jupyter-nazymungarova/	jupyter-zhandos/
jupyter-aruzhan149/	jupyter-nuray.serkali/	jupyter-zhanelbaltabay/
jupyter-aselleon/	jupyter-nurike/	jupyter-zhannaspace/

[49]: `cd /lib`

[50]: `ls -F`

apparmor/	init/	netplan/
console-setup/	klibc-wBFLvVtxy4xJqEadIBJMa78iJz8.so*	open-iscsi/
cpp@	libhandle.so.1@	recovery-mode/
crda/	libhandle.so.1.0.3	systemd/
cryptsetup/	lsb/	terminfo/
ebtables/	modprobe.d/	udev/
firmware/	modules/	ufw/
hdparm/	modules-load.d/	x86_64-linux-gnu/

[52]: `cd /"lost+found"`

bash: cd: /lost+found: Permission denied

[53]: `cd /media`

[56]: `pwd`

`/media`

[57]: `ls -a`

`. . .`

[59]: `cd /mnt`

[61]: `ls -a`

`. . .`

[63]: `cd /opt`

[65]: `ls -F`

`tljh/`

[66]: `cd /proc`

[68]: `ls -F`

1/	12495/	248/	388/	52/	79/	diskstats	net@
10/	1250/	25/	39/	526/	791/	dma	pagetypeinfo
1009/	12514/	252/	4/	536/	8/	driver/	partitions
1021/	12567/	253/	40/	54/	80/	execdomains	sched_debug
1051/	127/	254/	42/	549/	814/	fb	schedstat
1053/	12760/	255/	43/	55/	83/	filesystems	scsi/
1070/	12784/	257/	438/	56/	8383/	fs/	self@
1075/	128/	259/	44/	57/	84/	interrupts	slabinfo
1087/	12811/	26/	45/	58/	85/	iomem	softirqs
1088/	13/	265/	457/	6/	8658/	ioports	stat
1093/	132/	268/	46/	61/	8741/	irq/	swaps
11/	1320/	27/	461/	62/	8836/	kallsyms	sys/
11416/	14/	271/	48/	63/	889/	kcore	sysrq-trigger
1149/	141/	28/	480/	6315/	9/	keys	sysvipc/
1157/	15/	30/	482/	64/	909/	key-users	thread-self@
1164/	1526/	31/	483/	65/	9418/	kmsg	timer_list
11695/	158/	32/	484/	66/	996/	kpagecgroup	tty/
11739/	16/	32223/	485/	67/	acpi/	kpagecount	uptime
1179/	18/	32229/	487/	68/	asound/	kpageflags	version
12/	19/	33/	488/	69/	buddyinfo	loadavg	version_signature
12369/	2/	337/	49/	7/	bus/	locks	vmallocinfo
12381/	20/	34/	496/	7258/	cgroups	mdstat	vmstat
12452/	21/	36/	4977/	76/	cmdline	meminfo	zoneinfo
12455/	2163/	37/	499/	77/	consoles	misc	

12458/	22/	38/	50/	778/	cpuinfo	modules
12474/	24/	385/	500/	78/	crypto	mounts@
1249/	247/	386/	51/	782/	devices	mtrr

[69]: `cd /root`

bash: cd: /root: Permission denied

[ ]: