01_Apr_hw

April 2, 2020

```
[1]: pwd
```

```
/home/jupyter-aiana178
```

```
[2]: cd /
```

```
[3]: ls
```

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

```
[4]: ls -l
```

```
total 4194404
drwxr-xr-x   2 root root      4096 Mar  6 20:45 bin
drwxr-xr-x   4 root root      4096 Mar 17 15:26 boot
drwxr-xr-x   2 root root      4096 Mar  6 20:32 cdrom
drwxr-xr-x  20 root root      4000 Mar 24 22:10 dev
drwxr-xr-x 109 root root      4096 Apr  1 06:23 etc
drwxr-xr-x  32 root root      4096 Mar 28 00:21 home
lrwxrwxrwx   1 root root        33 Mar 17 15:25 initrd.img ->
boot/initrd.img-4.15.0-91-generic
lrwxrwxrwx   1 root root        33 Mar  6 20:33 initrd.img.old ->
boot/initrd.img-4.15.0-88-generic
drwxr-xr-x  22 root root      4096 Mar  6 20:55 lib
drwxr-xr-x   2 root root      4096 Feb  3 18:22 lib64
drwx------   2 root root     16384 Mar  6 20:31 lost+found
drwxr-xr-x   2 root root      4096 Feb  3 18:22 media
drwxr-xr-x   2 root root      4096 Mar 10 11:55 mkdir
drwxr-xr-x   2 root root      4096 Feb  3 18:22 mnt
drwxr-xr-x   3 root root      4096 Mar 17 17:06 opt
dr-xr-xr-x 165 root root         0 Mar 24 22:09 proc
drwx------   5 root root      4096 Mar 12 21:39 root
drwxr-xr-x  26 root root       920 Apr  2 02:09 run
drwxr-xr-x   2 root root     12288 Mar  6 20:43 sbin
drwxr-xr-x   4 root root      4096 Mar 17 15:24 snap
```

```
drwxr-xr-x    3 root root       4096 Mar 17 17:21 srv
-rw-------    1 root root 4294967296 Mar  6 20:33 swap.img
dr-xr-xr-x   13 root root          0 Apr  1 19:32 sys
drwxrwxrwt   26 root root       4096 Apr  2 03:53 tmp
drwxr-xr-x   10 root root       4096 Feb  3 18:22 usr
drwxr-xr-x   13 root root       4096 Mar 13 11:04 var
lrwxrwxrwx    1 root root         30 Mar 17 15:25 vmlinuz ->
boot/vmlinuz-4.15.0-91-generic
lrwxrwxrwx    1 root root         30 Mar  6 20:33 vmlinuz.old ->
boot/vmlinuz-4.15.0-88-generic
```

[5]: `ls -a`

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

[6]: `file "lost+found"`

```
lost+found: directory
```

[7]: `file lost+found`

```
lost+found: directory
```

[8]: `cd /lost+found`

```
bash: cd: /lost+found: Permission denied
```

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

```
bash: cd: /lost+found: Permission denied
```

[10]: `cd /root`

```
bash: cd: /root: Permission denied
```

[11]: `file swap.img`

```
swap.img: regular file, no read permission
```

[12]: `file initrd.img`

```
initrd.img: symbolic link to boot/initrd.img-4.15.0-91-generic
```

[13]: `cd bin`

[14]: `ls`

```
bash                egrep         nc.openbsd    ss
btrfs               false         netcat        static-sh
btrfsck             fgconsole     netstat       stty
btrfs-debug-tree    fgrep         networkctl    su
btrfs-find-root     findmnt       nisdomainname sync
btrfs-image         fsck.btrfs    ntfs-3g       systemctl
btrfs-map-logical   fuser         ntfs-3g.probe systemd
btrfs-select-super  fusermount    ntfscat       systemd-ask-password
btrfstune           getfacl       ntfscluster   systemd-escape
btrfs-zero-log      grep          ntfscmp       systemd-hwdb
bunzip2             gunzip        ntfsfallocate systemd-inhibit
busybox             gzexe         ntfsfix       systemd-machine-id-setup
bzcat               gzip          ntfsinfo      systemd-notify
bzcmp               hostname      ntfsls        systemd-sysusers
bzdiff              ip            ntfsmove      systemd-tmpfiles
bzegrep             journalctl    ntfsrecover   systemd-tty-ask-password-agent
bzexe               kbd_mode      ntfssecaudit  tar
bzfgrep             kill          ntfstruncate  tempfile
bzgrep              kmod          ntfsusermap   touch
bzip2               less          ntfswipe      true
bzip2recover        lessecho      open          udevadm
bzless              lessfile      openvt        ulockmgr_server
bzmore              lesskey       pidof         umount
cat                 lesspipe      ping          uname
chacl               ln            ping4         uncompress
chgrp               loadkeys      ping6         unicode_start
chmod               login         plymouth      vdir
chown               loginctl      ps            wdctl
chvt                lowntfs-3g    pwd           which
cp                  ls            rbash         whiptail
cpio                lsblk         readlink      ypdomainname
dash                lsmod         red           zcat
date                mkdir         rm            zcmp
dd                  mkfs.btrfs    rmdir         zdiff
df                  mknod         rnano         zegrep
dir                 mktemp        run-parts     zfgrep
dmesg               more          rzsh          zforce
dnsdomainname       mount         sed           zgrep
domainname          mountpoint    setfacl       zless
dumpkeys            mt            setfont       zmore
echo                mt-gnu        setupcon      znew
ed                  mv            sh            zsh
```

```
efibootdump       nano        sh.distrib     zsh5
efibootmgr        nc          sleep
```

[15]: `ls -l`

```
total 16196
-rwxr-xr-x 1 root root 1113504 Jun  6  2019 bash
-rwxr-xr-x 1 root root  716464 Mar 12  2018 btrfs
lrwxrwxrwx 1 root root       5 Mar 12  2018 btrfsck -> btrfs
-rwxr-xr-x 1 root root  375952 Mar 12  2018 btrfs-debug-tree
-rwxr-xr-x 1 root root  371856 Mar 12  2018 btrfs-find-root
-rwxr-xr-x 1 root root  396432 Mar 12  2018 btrfs-image
-rwxr-xr-x 1 root root  375952 Mar 12  2018 btrfs-map-logical
-rwxr-xr-x 1 root root  371856 Mar 12  2018 btrfs-select-super
-rwxr-xr-x 1 root root  375952 Mar 12  2018 btrfstune
-rwxr-xr-x 1 root root  371856 Mar 12  2018 btrfs-zero-log
-rwxr-xr-x 3 root root   34888 Jul  4  2019 bunzip2
-rwxr-xr-x 1 root root 2062296 Mar  6  2019 busybox
-rwxr-xr-x 3 root root   34888 Jul  4  2019 bzcat
lrwxrwxrwx 1 root root       6 Jul  4  2019 bzcmp -> bzdiff
-rwxr-xr-x 1 root root    2140 Jul  4  2019 bzdiff
lrwxrwxrwx 1 root root       6 Jul  4  2019 bzegrep -> bzgrep
-rwxr-xr-x 1 root root    4877 Jul  4  2019 bzexe
lrwxrwxrwx 1 root root       6 Jul  4  2019 bzfgrep -> bzgrep
-rwxr-xr-x 1 root root    3642 Jul  4  2019 bzgrep
-rwxr-xr-x 3 root root   34888 Jul  4  2019 bzip2
-rwxr-xr-x 1 root root   14328 Jul  4  2019 bzip2recover
lrwxrwxrwx 1 root root       6 Jul  4  2019 bzless -> bzmore
-rwxr-xr-x 1 root root    1297 Jul  4  2019 bzmore
-rwxr-xr-x 1 root root   35064 Jan 18  2018 cat
-rwxr-xr-x 1 root root   14328 Apr 21  2017 chacl
-rwxr-xr-x 1 root root   63672 Jan 18  2018 chgrp
-rwxr-xr-x 1 root root   59608 Jan 18  2018 chmod
-rwxr-xr-x 1 root root   67768 Jan 18  2018 chown
-rwxr-xr-x 1 root root   10312 Jan 22  2018 chvt
-rwxr-xr-x 1 root root  141528 Jan 18  2018 cp
-rwxr-xr-x 1 root root  157224 Nov  5 18:09 cpio
-rwxr-xr-x 1 root root  121432 Jan 25  2018 dash
-rwxr-xr-x 1 root root  100568 Jan 18  2018 date
-rwxr-xr-x 1 root root   76000 Jan 18  2018 dd
-rwxr-xr-x 1 root root   84776 Jan 18  2018 df
-rwxr-xr-x 1 root root  133792 Jan 18  2018 dir
-rwxr-xr-x 1 root root   72000 Jan  8 18:31 dmesg
lrwxrwxrwx 1 root root       8 Jan 31  2018 dnsdomainname -> hostname
lrwxrwxrwx 1 root root       8 Jan 31  2018 domainname -> hostname
-rwxr-xr-x 1 root root  170520 Jan 22  2018 dumpkeys
-rwxr-xr-x 1 root root   35000 Jan 18  2018 echo
-rwxr-xr-x 1 root root   51512 Apr 26  2016 ed
```

```
-rwxr-xr-x 1 root root    18424 Apr 21  2017 efibootdump
-rwxr-xr-x 1 root root    40056 Apr 21  2017 efibootmgr
-rwxr-xr-x 1 root root       28 Sep 18  2019 egrep
-rwxr-xr-x 1 root root    30904 Jan 18  2018 false
-rwxr-xr-x 1 root root    10312 Jan 22  2018 fgconsole
-rwxr-xr-x 1 root root       28 Sep 18  2019 fgrep
-rwxr-xr-x 1 root root    64784 Jan  8 18:31 findmnt
-rwxr-xr-x 1 root root     1185 Mar 12  2018 fsck.btrfs
-rwxr-xr-x 1 root root    35928 Dec 11  2018 fuser
-rwsr-xr-x 1 root root    30800 Aug 11  2016 fusermount
-rwxr-xr-x 1 root root    23160 Apr 21  2017 getfacl
-rwxr-xr-x 1 root root   219456 Sep 18  2019 grep
-rwxr-xr-x 2 root root     2301 Apr 28  2017 gunzip
-rwxr-xr-x 1 root root     5927 Apr 28  2017 gzexe
-rwxr-xr-x 1 root root   101560 Apr 28  2017 gzip
-rwxr-xr-x 1 root root    18504 Jan 31  2018 hostname
-rwxr-xr-x 1 root root   554104 Feb 26  2018 ip
-rwxr-xr-x 1 root root    63576 Feb  6 15:00 journalctl
-rwxr-xr-x 1 root root    10312 Jan 22  2018 kbd_mode
-rwxr-xr-x 1 root root    26704 Aug  9  2019 kill
-rwxr-xr-x 1 root root   149688 Nov 12  2018 kmod
-rwxr-xr-x 1 root root   170760 Dec  1  2017 less
-rwxr-xr-x 1 root root    10256 Dec  1  2017 lessecho
lrwxrwxrwx 1 root root        8 Dec  1  2017 lessfile -> lesspipe
-rwxr-xr-x 1 root root    19856 Dec  1  2017 lesskey
-rwxr-xr-x 1 root root     8564 Dec  1  2017 lesspipe
-rwxr-xr-x 1 root root    67808 Jan 18  2018 ln
-rwxr-xr-x 1 root root   211528 Jan 22  2018 loadkeys
-rwxr-xr-x 1 root root    52664 Mar 22  2019 login
-rwxr-xr-x 1 root root    51280 Feb  6 15:00 loginctl
-rwxr-xr-x 1 root root   109232 Mar 21  2019 lowntfs-3g
-rwxr-xr-x 1 root root   133792 Jan 18  2018 ls
-rwxr-xr-x 1 root root    84048 Jan  8 18:31 lsblk
lrwxrwxrwx 1 root root        4 Nov 12  2018 lsmod -> kmod
-rwxr-xr-x 1 root root    80056 Jan 18  2018 mkdir
-rwxr-xr-x 1 root root   396464 Mar 12  2018 mkfs.btrfs
-rwxr-xr-x 1 root root    67768 Jan 18  2018 mknod
-rwxr-xr-x 1 root root    43192 Jan 18  2018 mktemp
-rwxr-xr-x 1 root root    38952 Jan  8 18:31 more
-rwsr-xr-x 1 root root    43088 Jan  8 18:31 mount
-rwxr-xr-x 1 root root    14408 Jan  8 18:31 mountpoint
lrwxrwxrwx 1 root root       20 Feb  3 18:22 mt -> /etc/alternatives/mt
-rwxr-xr-x 1 root root    80512 Nov  5 18:09 mt-gnu
-rwxr-xr-x 1 root root   137440 Jan 18  2018 mv
-rwxr-xr-x 1 root root   245872 Mar  6  2018 nano
lrwxrwxrwx 1 root root       20 Feb  3 18:22 nc -> /etc/alternatives/nc
-rwxr-xr-x 1 root root    35312 May 14  2018 nc.openbsd
lrwxrwxrwx 1 root root       24 Feb  3 18:22 netcat -> /etc/alternatives/netcat
```

```
-rwxr-xr-x 1 root root  154192 Jan 10  2017 netstat
-rwxr-xr-x 1 root root   43080 Feb  6 15:00 networkctl
lrwxrwxrwx 1 root root       8 Jan 31  2018 nisdomainname -> hostname
-rwxr-xr-x 1 root root  146128 Mar 21  2019 ntfs-3g
-rwxr-xr-x 1 root root   10312 Mar 21  2019 ntfs-3g.probe
-rwxr-xr-x 1 root root   26728 Mar 21  2019 ntfscat
-rwxr-xr-x 1 root root   34920 Mar 21  2019 ntfscluster
-rwxr-xr-x 1 root root   34920 Mar 21  2019 ntfscmp
-rwxr-xr-x 1 root root   34928 Mar 21  2019 ntfsfallocate
-rwxr-xr-x 1 root root   43120 Mar 21  2019 ntfsfix
-rwxr-xr-x 1 root root   55416 Mar 21  2019 ntfsinfo
-rwxr-xr-x 1 root root   31928 Mar 21  2019 ntfsls
-rwxr-xr-x 1 root root   30824 Mar 21  2019 ntfsmove
-rwxr-xr-x 1 root root  116840 Mar 21  2019 ntfsrecover
-rwxr-xr-x 1 root root   88672 Mar 21  2019 ntfssecaudit
-rwxr-xr-x 1 root root   38944 Mar 21  2019 ntfstruncate
-rwxr-xr-x 1 root root   30744 Mar 21  2019 ntfsusermap
-rwxr-xr-x 1 root root   47752 Mar 21  2019 ntfswipe
lrwxrwxrwx 1 root root       6 Jan 22  2018 open -> openvt
-rwxr-xr-x 1 root root   18872 Jan 22  2018 openvt
lrwxrwxrwx 1 root root      14 Nov  1  2017 pidof -> /sbin/killall5
-rwsr-xr-x 1 root root   64424 Jun 28  2019 ping
lrwxrwxrwx 1 root root       4 Jun 28  2019 ping4 -> ping
lrwxrwxrwx 1 root root       4 Jun 28  2019 ping6 -> ping
-rwxr-xr-x 1 root root   38904 Apr  4  2019 plymouth
-rwxr-xr-x 1 root root  133432 Aug  9  2019 ps
-rwxr-xr-x 1 root root   35000 Jan 18  2018 pwd
lrwxrwxrwx 1 root root       4 Jun  6  2019 rbash -> bash
-rwxr-xr-x 1 root root   43192 Jan 18  2018 readlink
-rwxr-xr-x 1 root root      89 Apr 26  2016 red
-rwxr-xr-x 1 root root   63704 Jan 18  2018 rm
-rwxr-xr-x 1 root root   43192 Jan 18  2018 rmdir
lrwxrwxrwx 1 root root       4 Mar  6  2018 rnano -> nano
-rwxr-xr-x 1 root root   18760 Dec 30  2017 run-parts
lrwxrwxrwx 1 root root       3 Sep 10  2018 rzsh -> zsh
-rwxr-xr-x 1 root root  109000 Jan 30  2018 sed
-rwxr-xr-x 1 root root   35512 Apr 21  2017 setfacl
-rwxr-xr-x 1 root root   43144 Jan 22  2018 setfont
-rwxr-xr-x 1 root root   39103 Apr 23  2019 setupcon
lrwxrwxrwx 1 root root       4 Feb  3 18:22 sh -> dash
lrwxrwxrwx 1 root root       4 Jan 25  2018 sh.distrib -> dash
-rwxr-xr-x 1 root root   35000 Jan 18  2018 sleep
-rwxr-xr-x 1 root root  139904 Feb 26  2018 ss
lrwxrwxrwx 1 root root       7 Mar  6  2019 static-sh -> busybox
-rwxr-xr-x 1 root root   75992 Jan 18  2018 stty
-rwsr-xr-x 1 root root   44664 Mar 22  2019 su
-rwxr-xr-x 1 root root   35000 Jan 18  2018 sync
-rwxr-xr-x 1 root root  182352 Feb  6 15:00 systemctl
```

```
lrwxrwxrwx 1 root root       20 Feb  6 15:00 systemd -> /lib/systemd/systemd
-rwxr-xr-x 1 root root    10320 Feb  6 15:00 systemd-ask-password
-rwxr-xr-x 1 root root    14400 Feb  6 15:00 systemd-escape
-rwxr-xr-x 1 root root    84328 Feb  6 15:00 systemd-hwdb
-rwxr-xr-x 1 root root    14416 Feb  6 15:00 systemd-inhibit
-rwxr-xr-x 1 root root    18496 Feb  6 15:00 systemd-machine-id-setup
-rwxr-xr-x 1 root root    14408 Feb  6 15:00 systemd-notify
-rwxr-xr-x 1 root root    43080 Feb  6 15:00 systemd-sysusers
-rwxr-xr-x 1 root root    71752 Feb  6 15:00 systemd-tmpfiles
-rwxr-xr-x 1 root root    26696 Feb  6 15:00 systemd-tty-ask-password-agent
-rwxr-xr-x 1 root root   423312 Jan 21  2019 tar
-rwxr-xr-x 1 root root    10104 Dec 30  2017 tempfile
-rwxr-xr-x 1 root root    88280 Jan 18  2018 touch
-rwxr-xr-x 1 root root    30904 Jan 18  2018 true
-rwxr-xr-x 1 root root   584072 Feb  6 15:00 udevadm
-rwxr-xr-x 1 root root    14328 Aug 11  2016 ulockmgr_server
-rwsr-xr-x 1 root root    26696 Jan  8 18:31 umount
-rwxr-xr-x 1 root root    35032 Jan 18  2018 uname
-rwxr-xr-x 2 root root     2301 Apr 28  2017 uncompress
-rwxr-xr-x 1 root root     2762 Jan 22  2018 unicode_start
-rwxr-xr-x 1 root root   133792 Jan 18  2018 vdir
-rwxr-xr-x 1 root root    30800 Jan  8 18:31 wdctl
-rwxr-xr-x 1 root root      946 Dec 30  2017 which
-rwxr-xr-x 1 root root    26632 Jan 12  2018 whiptail
lrwxrwxrwx 1 root root        8 Jan 31  2018 ypdomainname -> hostname
-rwxr-xr-x 1 root root     1937 Apr 28  2017 zcat
-rwxr-xr-x 1 root root     1777 Apr 28  2017 zcmp
-rwxr-xr-x 1 root root     5764 Apr 28  2017 zdiff
-rwxr-xr-x 1 root root      140 Apr 28  2017 zegrep
-rwxr-xr-x 1 root root      140 Apr 28  2017 zfgrep
-rwxr-xr-x 1 root root     2131 Apr 28  2017 zforce
-rwxr-xr-x 1 root root     5938 Apr 28  2017 zgrep
-rwxr-xr-x 1 root root     2037 Apr 28  2017 zless
-rwxr-xr-x 1 root root     1910 Apr 28  2017 zmore
-rwxr-xr-x 1 root root     5047 Apr 28  2017 znew
-rwxr-xr-x 1 root root   832416 Sep 10  2018 zsh
-rwxr-xr-x 1 root root      843 Dec 30  2017 zsh5
```

[16]:
```
file cat
```

```
cat: ELF 64-bit LSB shared object, x86-64, version 1 (SYSV), dynamically linked,
interpreter /lib64/l, for GNU/Linux 3.2.0,
BuildID[sha1]=747e524bc20d33ce25ed4aea108e3025e5c3b78f, stripped
```

[17]:
```
cd /boot
```

[18]:
```
ls
```

```
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
```

[19]: `file efi`

```
efi: directory
```

[20]: `cd efi`

[21]: `ls`

```
EFI
```

[22]: `cd /home`

[23]: `ls`

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

[24]: `cd /jupyter-admin`

```
bash: cd: /jupyter-admin: No such file or directory
```

[25]: `cd azat`

[26]: `ls`

```
jupyterhub-80.png   jupyter.png
```

[28]: `cd ./..`

[29]: `pwd`

```
/
```

```
[30]: cd /home
```

```
[32]: cd jupyter-azat
```

```
bash: cd: jupyter-azat: Permission denied
```

```
[33]: cd jupyter-orissim
```

```
bash: cd: jupyter-orissim: Permission denied
```

```
[34]: cd jupyter-aiana178
```

```
[35]: pwd
```

```
/home/jupyter-aiana178
```

```
[36]: cd ..
```

```
[38]: cd /lib
```

```
[40]: ls
```

```
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
```

```
[41]: ls -l
```

```
total 224
drwxr-xr-x  2 root root  4096 Feb  3 18:23 apparmor
drwxr-xr-x  2 root root  4096 Feb  3 18:23 console-setup
lrwxrwxrwx  1 root root    21 Mar  6 20:55 cpp -> /etc/alternatives/cpp
drwxr-xr-x  3 root root  4096 Mar  6 20:33 crda
drwxr-xr-x  4 root root  4096 Feb  3 18:23 cryptsetup
drwxr-xr-x  2 root root  4096 Feb  3 18:23 ebtables
drwxr-xr-x 84 root root 36864 Mar 12 15:57 firmware
drwxr-xr-x  2 root root  4096 Feb  3 18:23 hdparm
drwxr-xr-x  2 root root  4096 Feb  3 18:22 init
-rwxr-xr-x  1 root root 74656 Nov  9  2017 klibc-wBFLvVtxy4xJqEadIBJMa78iJz8.so
lrwxrwxrwx  1 root root    18 Apr 18  2018 libhandle.so.1 -> libhandle.so.1.0.3
```

```
-rw-r--r--  1 root root 14416 Apr 18  2018 libhandle.so.1.0.3
drwxr-xr-x  3 root root  4096 Feb  3 18:22 lsb
drwxr-xr-x  2 root root  4096 Mar 17 15:25 modprobe.d
drwxr-xr-x  4 root root  4096 Mar 17 15:25 modules
drwxr-xr-x  2 root root  4096 Feb  3 18:23 modules-load.d
drwxr-xr-x  2 root root  4096 Feb  3 18:23 netplan
drwxr-xr-x  2 root root  4096 Feb  3 18:23 open-iscsi
drwxr-xr-x  3 root root  4096 Feb  3 18:23 recovery-mode
drwxr-xr-x  8 root root 12288 Mar  6 20:43 systemd
drwxr-xr-x 15 root root  4096 Feb 12  2018 terminfo
drwxr-xr-x  4 root root  4096 Mar 19 12:11 udev
drwxr-xr-x  2 root root  4096 Feb  3 18:23 ufw
drwxr-xr-x  4 root root 12288 Apr  1 06:23 x86_64-linux-gnu
```

[42]: `cd init`

[43]: `ls`

```
init-d-script   vars.sh
```

[44]: `cd /etc`

[45]: `ls`

```
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
apport                   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
```

[46]: `cd /usr`

[47]: `ls`

```
bin  games  include  lib  local  sbin  share  src
```

```
[48]: ls -l
```

```
total 68
drwxr-xr-x   2 root root 36864 Mar 25 06:17 bin
drwxr-xr-x   2 root root  4096 Apr 24  2018 games
drwxr-xr-x  38 root root  4096 Mar 19 12:07 include
drwxr-xr-x  78 root root  4096 Mar 21 14:12 lib
drwxr-xr-x  10 root root  4096 Feb  3 18:22 local
drwxr-xr-x   2 root root  4096 Mar 21 17:34 sbin
drwxr-xr-x 151 root root  4096 Mar 21 14:13 share
drwxr-xr-x   6 root root  4096 Mar 17 15:25 src
```

```
[49]: ls -tmp
```

```
bin/, sbin/, share/, lib/, include/, src/, local/, games/
```

```
[50]: cd /tmp
```

```
[51]: ls
```

```
npm-10827-0e564a4c
npm-16887-8c782a69
npm-1734-4343c47f
npm-22290-49e0f6ff
npm-23142-d27f6bba
npm-23375-6bb977da
npm-23794-403d9440
npm-26296-4ea6a34d
npm-26960-6b0c7d95
npm-27460-f5da2395
npm-7544-12d35dae
npm-8050-06c19f33
npm-8322-2a3b4233
npm-9277-386698b9
npm-9736-137906aa
systemd-private-bde4209a9cf34ce29a03310bf98c2445-jupyterhub.service-BlGHgU
systemd-private-bde4209a9cf34ce29a03310bf98c2445-systemd-resolved.service-bxqXyY
systemd-private-bde4209a9cf34ce29a03310bf98c2445-systemd-timesyncd.service-
Vg7n7D
systemd-private-bde4209a9cf34ce29a03310bf98c2445-traefik.service-x45iZK
```

```
[52]: ls -l
```

```
total 76
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 26 17:31 npm-10827-0e564a4c
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 26 20:03 npm-16887-8c782a69
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 24 22:11 npm-1734-4343c47f
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 28 16:43 npm-22290-49e0f6ff
```

```
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 28 17:38 npm-23142-d27f6bba
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 28 19:08 npm-23375-6bb977da
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 27 21:07 npm-23794-403d9440
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 29 01:21 npm-26296-4ea6a34d
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 28 00:08 npm-26960-6b0c7d95
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 29 15:47 npm-27460-f5da2395
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 26 13:42 npm-7544-12d35dae
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Apr  1 16:56 npm-8050-06c19f33
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 26 14:23 npm-8322-2a3b4233
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Mar 26 16:04 npm-9277-386698b9
drwxr-xr-x 3 jupyter-azat jupyter-azat 4096 Apr  1 22:53 npm-9736-137906aa
drwx------ 3 root         root         4096 Mar 24 22:10 systemd-private-
bde4209a9cf34ce29a03310bf98c2445-jupyterhub.service-BlGHgU
drwx------ 3 root         root         4096 Mar 24 22:10 systemd-private-
bde4209a9cf34ce29a03310bf98c2445-systemd-resolved.service-bxqXyY
drwx------ 3 root         root         4096 Mar 24 22:10 systemd-private-
bde4209a9cf34ce29a03310bf98c2445-systemd-timesyncd.service-Vg7n7D
drwx------ 3 root         root         4096 Mar 24 22:10 systemd-private-
bde4209a9cf34ce29a03310bf98c2445-traefik.service-x45iZK
```

[53]: `cd npm-10827-0e564a4c`

[54]: `pwd`

```
/tmp/npm-10827-0e564a4c
```

[56]: `ls -a`

```
.  ..  tmp
```

[57]: `cd /var`

[58]: `ls`

```
backups  cache  crash  lib  local  lock  log  mail  opt  run  snap  spool  tmp
```

[59]: `cd /mnt`

[62]: `pwd`

```
/mnt
```

[63]: `ls -a -l`

```
total 8
drwxr-xr-x  2 root root 4096 Feb  3 18:22 .
drwxr-xr-x 25 root root 4096 Mar 17 15:25 ..
```

```
[64]: man -k hide
```

shred (1)   - overwrite a file to hide its contents, and optionally …

```
[65]: man -k hidden
```

hidden: nothing appropriate.

```
[66]: man -k good
```

git-merge-base (1)   - Find as good common ancestors as possible for a merge

```
[67]: man -k bad
```

badblocks (8)   - search a device for bad blocks

```
[68]: man -k computer
```

allcm (1)   - force the most important Computer-Modern-fonts to be c…
on_ac_power (1)   - test whether computer is running on AC power

```
[69]: man allcm
```

```
allcm(1)                          teTeX                          allcm(1)

NAME
       allcm - force the most important Computer-Modern-fonts to be calculated

SYNOPSIS
       allcm [-r]

DESCRIPTION
       allcm  forces  a large number of Computer Modern Fonts to be calculated
       as pixel files.  This is done through running dvips(1) over  a  certain
       test-file. Therefore, the fonts are created in the resolution needed by
       dvips.

       If the -r flag is specified, the command dvired(1) will be used instead
       of dvips.

       allcm does not recalculate existing fonts (as long as the Metafont mode
       does not change).

SEE ALSO
       allec(1), allneeded(1), dvips(1), dvired(1).

AUTHOR
```

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[72]: `man -k hid`

shred (1)   - overwrite a file to hide its contents, and optionally …
usbhid-dump (8)   - dump USB HID device report descriptors and streams

[ ]: