grep

April 24, 2020

```
[1]: cd /
```

```
[2]: pwd
```

```
/
```

```
[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]: which python
```

```
/opt/tljh/user/bin/python
```

```
[5]: cd /dev
```

```
[6]: pwd
```

```
/dev
```

```
[7]: ls
```

```
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             rfkill              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
```

[8]: `cd /`

[9]: `pwd`

```
/
```

[10]: `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
```

[11]: `cd`

[12]: `pwd`

```
/home/jupyter-cubefiction
```

[13]: `ls`

```
cola               Untitled1.ipynb   Untitled5.ipynb     Untitled.ipynb
cubefiction.ipynb  Untitled2.ipynb   Untitled6.ipynb
mola               Untitled3.ipynb   'Untitled Folder'
tola               Untitled4.ipynb   'Untitled Folder 1'
```

[14]: `pwd`

```
/home/jupyter-cubefiction
```

[15]: `ls *ola`

```
cola:
cubefiction  tola

mola:

tola:
```

[16]: `ls ?ola`

```
cola:
cubefiction  tola

mola:

tola:
```

[19]: `touch 1.txt`

[20]: `touch 2.txt`

[21]: `touch 3.txt`

[22]: `ls`

```
1.txt              mola            Untitled3.ipynb   'Untitled Folder 1'
2.txt              new-{1-3}.txt   Untitled4.ipynb    Untitled.ipynb
3.txt              tola            Untitled5.ipynb
cola               Untitled1.ipynb Untitled6.ipynb
cubefiction.ipynb  Untitled2.ipynb 'Untitled Folder'
```

[23]: `ls *.txt`

```
1.txt   2.txt   3.txt   new-{1-3}.txt
```

[24]: `ls r?ight`

```
ls: cannot access 'r?ight': No such file or directory
```

[26]: `touch right`

[27]: `ls ?ight`

```
right
```

```
[28]: touch right
```

```
[29]: ls *ight
```

```
right
```

```
[30]: touch right3 right4
```

```
[31]: ls
```

```
1.txt              mola            tola             Untitled5.ipynb
2.txt              new-{1-3}.txt   Untitled1.ipynb   Untitled6.ipynb
3.txt              right           Untitled2.ipynb  'Untitled Folder'
cola               right3          Untitled3.ipynb  'Untitled Folder 1'
cubefiction.ipynb  right4          Untitled4.ipynb   Untitled.ipynb
```

```
[32]: ls ?ight
```

```
right
```

```
[33]: ls *ight
```

```
right
```

```
[34]: ls r*ght
```

```
right
```

```
[35]: touch right riigth
```

```
[36]: ls
```

```
1.txt              new-{1-3}.txt   Untitled1.ipynb  'Untitled Folder'
2.txt              right           Untitled2.ipynb  'Untitled Folder 1'
3.txt              right3          Untitled3.ipynb   Untitled.ipynb
cola               right4          Untitled4.ipynb
cubefiction.ipynb  riigth          Untitled5.ipynb
mola               tola            Untitled6.ipynb
```

```
[37]: ls *igth
```

```
riigth
```

```
[38]: ls r*ght
```

```
right
```

```
[39]: ls [1-2]
```

4

```
ls: cannot access '[1-2]': No such file or directory
```

[40]: `ls[.txt]`

```
ls[.txt]: command not found
```

[41]: `ls [1-2].txt`

```
1.txt   2.txt
```

[43]: `touch 10`

[44]: `ls`

```
10                mola           tola           Untitled6.ipynb
1.txt             new-{1-3}.txt  Untitled1.ipynb 'Untitled Folder'
2.txt             right          Untitled2.ipynb 'Untitled Folder 1'
3.txt             right3         Untitled3.ipynb  Untitled.ipynb
cola              right4         Untitled4.ipynb
cubefiction.ipynb riigth         Untitled5.ipynb
```

[45]: `touch abc`

[46]: `touch abcd`

[47]: `ls[a-z]*.`

```
ls[a-z]*.: command not found
```

[48]: `ls[a-z]*.txt`

```
ls[a-z]*.txt: command not found
```

[49]: `ls [abc-abcd]*.txt`

```
ls: cannot access '[abc-abcd]*.txt': No such file or directory
```

[50]: `touch a.txt`

[51]: `touch b.txt`

```
[52]: touch c.txt
```

```
[53]: touch d.txt
```

```
[56]: touch z.txt
```

```
[57]: ls [a-z]*.txt
```

    a.txt b.txt c.txt d.txt new-{1-3}.txt z.txt

```
[58]: ls [A-Z]*.txt
```

    b.txt c.txt d.txt new-{1-3}.txt z.txt

```
[60]: touch a.mp3
```

```
[61]: touch a.jpg
```

```
[62]: touch 3.png
```

```
[63]: touch z.jpg
```

```
[64]: #get all files at once
```

```
[65]: ls *.[jp][pn]g
```

    3.png a.jpg z.jpg

```
[66]: ls *.??g
```

    3.png a.jpg z.jpg

```
[67]: touch 34.azg
```

```
[68]: ls *.??g
```

    34.azg 3.png a.jpg z.jpg

```
[69]: ls *.[jp][pn]g
```

    3.png a.jpg z.jpg

```
[70]: ls *.[jp][pn][az]g
```

    ls: cannot access '*.[jp][pn][az]g': No such file or directory

```
[71]: ls *.[az]g
```

```
ls: cannot access '*.[az]g': No such file or directory
```

[72]: `ls *.azg`

```
34.azg
```

[74]: `ls -la/home/`

```
ls: invalid option -- '/'
Try 'ls --help' for more information.
```

[75]: `ls -al /home/`

```
total 136
drwxr-xr-x 34 root                   root              4096 Apr 16
16:03 .
drwxr-xr-x 25 root                   root              4096 Apr  7
06:52 ..
drwxr-xr-x 12 azat                   azat              4096 Apr 16
18:14 azat
drwxr-x---  8 jupyter-admin          jupyter-admin     4096 Apr  9
16:35 jupyter-admin
drwxr-x--- 10 jupyter-aiana178       jupyter-aiana178  4096 Apr 15
04:42 jupyter-aiana178
drwxr-x--- 12 jupyter-aigerimunisat  jupyter-aigerimunisat  4096 Apr 16
16:54 jupyter-aigerimunisat
drwxr-x---  8 jupyter-aizadait       jupyter-aizadait  4096 Mar 28
01:17 jupyter-aizadait
drwxr-x--- 10 jupyter-amayakof       jupyter-amayakof  4096 Apr 11
13:24 jupyter-amayakof
drwxr-x---  7 jupyter-amirkhan       jupyter-amirkhan  4096 Mar 21
13:40 jupyter-amirkhan
drwxr-x---  4 jupyter-arayka         jupyter-arayka    4096 Mar 18
17:22 jupyter-arayka
drwxr-x---  8 jupyter-aruzhan149     jupyter-aruzhan149 4096 Apr 16
14:57 jupyter-aruzhan149
drwxr-x---  7 jupyter-aselleon       jupyter-aselleon  4096 Mar 23
19:08 jupyter-aselleon
drwxr-x--- 12 jupyter-azat           jupyter-azat      4096 Mar 23
22:20 jupyter-azat
drwxr-x--- 12 jupyter-cubefiction    jupyter-cubefiction 4096 Apr 17
18:37 jupyter-cubefiction
drwxr-x--- 12 jupyter-danenok        jupyter-danenok   4096 Apr 16
17:16 jupyter-danenok
drwxr-x---  7 jupyter-darganius      jupyter-darganius 4096 Mar 23
```

```
                 12:19 jupyter-darganius
drwxr-x---  10 jupyter-ekdana             jupyter-ekdana            4096 Apr  4
                 15:43 jupyter-ekdana
drwxr-x---  11 jupyter-inkar601           jupyter-inkar601          4096 Apr 11
                 13:03 jupyter-inkar601
drwxr-x---  13 jupyter-kkenzh             jupyter-kkenzh            4096 Apr 17
                 15:49 jupyter-kkenzh
drwxr-x---  10 jupyter-nazymungarova      jupyter-nazymungarova     4096 Apr  8
                 16:03 jupyter-nazymungarova
drwxr-x---   7 jupyter-nuray.serkali      jupyter-nuray.serkali     4096 Mar 19
                 17:09 jupyter-nuray.serkali
drwxr-x---   7 jupyter-nurike             jupyter-nurike            4096 Mar 24
                 04:56 jupyter-nurike
drwxr-x---   8 jupyter-nurlaura           jupyter-nurlaura          4096 Mar 28
                 00:09 jupyter-nurlaura
drwxr-x---   9 jupyter-nurlaura2          jupyter-nurlaura2         4096 Apr  9
                 14:36 jupyter-nurlaura2
drwxr-x---  13 jupyter-official-nanakai jupyter-official-nanakai 4096 Apr 16
                 00:18 jupyter-official-nanakai
drwxr-x---  11 jupyter-orissim            jupyter-orissim           4096 Apr  8
                 23:57 jupyter-orissim
drwxr-x---  10 jupyter-tsagynysh          jupyter-tsagynysh         4096 Apr 16
                 17:40 jupyter-tsagynysh
drwxr-x---  15 jupyter-unisat             jupyter-unisat            4096 Apr  2
                 17:10 jupyter-unisat
drwxr-x---   7 jupyter-unisat39           jupyter-unisat39          4096 Apr 16
                 16:38 jupyter-unisat39
drwxr-x---  16 jupyter-unisatkz           jupyter-unisatkz          4096 Apr 16
                 18:48 jupyter-unisatkz
drwxr-x---   4 jupyter-yeldana            jupyter-yeldana           4096 Mar 23
                 16:17 jupyter-yeldana
drwxr-x---   5 jupyter-zhandos            jupyter-zhandos           4096 Mar 23
                 12:19 jupyter-zhandos
drwxr-x---   8 jupyter-zhanelbaltabay     jupyter-zhanelbaltabay    4096 Apr  4
                 10:22 jupyter-zhanelbaltabay
drwxr-x---  13 jupyter-zhannaspace        jupyter-zhannaspace       4096 Apr 16
                 15:14 jupyter-zhannaspace
```

[76]: `ls -al/home/*/unisat`

```
ls: invalid option -- '/'
Try 'ls --help' for more information.
```

[77]: `ls -al /home/*/homework`

```
/
```

ls: cannot access '/home/*/homework': No such file or directory
bash: /: Is a directory

[78]: `ls -al /home/jupyter-u*`

ls: cannot open directory '/home/jupyter-unisat': Permission denied
ls: cannot open directory '/home/jupyter-unisat39': Permission denied
ls: cannot open directory '/home/jupyter-unisatkz': Permission denied

[79]: `ls /etc`

acpi	initramfs-tools	profile.d
adduser.conf	inputrc	protocols
alternatives	iproute2	python
apache2	iscsi	python2.7
apm	issue	python3
apparmor	issue.net	python3.6
apparmor.d	java-11-openjdk	python3.8
apport	kernel	rc0.d
apt	kernel-img.conf	rc1.d
at.deny	landscape	rc2.d
bash.bashrc	ldap	rc3.d
bash_completion	ld.so.cache	rc4.d
bash_completion.d	ld.so.conf	rc5.d
bindresvport.blacklist	ld.so.conf.d	rc6.d
binfmt.d	legal	rc.local
byobu	libaudit.conf	rcS.d
ca-certificates	libnl-3	resolv.conf
ca-certificates.conf	libpaper.d	rmt
calendar	lighttpd	rpc
cloud	locale.alias	rsyslog.conf
console-setup	locale.gen	rsyslog.d
cron.d	localtime	screenrc
cron.daily	logcheck	securetty
cron.hourly	login.defs	security
cron.monthly	logrotate.conf	selinux
crontab	logrotate.d	sensors3.conf
cron.weekly	lsb-release	sensors.d
cryptsetup-initramfs	ltrace.conf	services
crypttab	lvm	shadow
dbus-1	machine-id	shadow-
debconf.conf	magic	shells

```
debian_version          magic.mime                 skel
default                 mailcap                    sos.conf
deluser.conf            mailcap.order              ssh
depmod.d                manpath.config             ssl
dhcp                    mdadm                      subgid
dnsmasq.d               mime.types                 subgid-
dnsmasq.d-available     mke2fs.conf                subuid
dpkg                    modprobe.d                 subuid-
environment             modules                    sudoers
ethertypes              modules-load.d             sudoers.d
firefox                 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
```

[80]: `ls /etc/*.d`

```
/etc/apparmor.d:
abstractions    lxc-containers      usr.lib.snapd.snap-confine.real
cache           sbin.dhclient       usr.sbin.mysqld
disable         tunables            usr.sbin.rsyslogd
force-complain  usr.bin.firefox     usr.sbin.tcpdump
local           usr.bin.lxc-start
lxc             usr.bin.man

/etc/bash_completion.d:
apport_completion  git-prompt  grub
```

```
/etc/binfmt.d:

/etc/cron.d:
mdadm   popularity-contest

/etc/depmod.d:
ubuntu.conf

/etc/dnsmasq.d:
lxd

/etc/grub.d:
00_header         10_linux      30_os-prober      40_custom   README
05_debian_theme   20_linux_xen  30_uefi-firmware  41_custom

/etc/init.d:
acpid              grub-common       lxd               rsync
apparmor           hwclock.sh        mdadm             rsyslog
apport             irqbalance        mdadm-waitidle    screen-cleanup
atd                iscsid            mysql             ssh
console-setup.sh   keyboard-setup.sh nginx             udev
cron               kmod              open-iscsi        ufw
cryptdisks         lvm2              open-vm-tools     unattended-upgrades
cryptdisks-early   lvm2-lvmetad      plymouth          uuidd
dbus               lvm2-lvmpolld     plymouth-log      x11-common
ebtables           lxcfs             procps

/etc/ld.so.conf.d:
fakeroot-x86_64-linux-gnu.conf   libc.conf   x86_64-linux-gnu.conf

/etc/libpaper.d:
texlive-base

/etc/logrotate.d:
alternatives   apt    lxd            nginx     ufw
apport         dpkg   mysql-server   rsyslog   unattended-upgrades

/etc/modprobe.d:
amd64-microcode-blacklist.conf   blacklist-rare-network.conf
blacklist-ath_pci.conf           intel-microcode-blacklist.conf
blacklist.conf                   iwlwifi.conf
blacklist-firewire.conf          mdadm.conf
blacklist-framebuffer.conf

/etc/modules-load.d:
modules.conf
```

```
/etc/pam.d:
atd             common-password           other       su
chfn            common-session            passwd      sudo
chpasswd        common-session-noninteractive  polkit-1    systemd-user
chsh            cron                      runuser     vmtoolsd
common-account  login                     runuser-l
common-auth     newusers                  sshd

/etc/profile.d:
01-locale-fix.sh      cedilla-portuguese.sh      Z99-cloud-locale-test.sh
apps-bin-path.sh      Z97-byobu.sh
bash_completion.sh    Z99-cloudinit-warnings.sh

/etc/rc0.d:
K01atd              K01lvm2-lvmpolld   K01open-iscsi
K01cryptdisks       K01lxcfs           K01open-vm-tools
K01cryptdisks-early K01lxd             K01plymouth
K01ebtables         K01mdadm           K01rsyslog
K01irqbalance       K01mdadm-waitidle  K01unattended-upgrades
K01iscsid           K01mysql           K01uuidd
K01lvm2-lvmetad     K01nginx

/etc/rc1.d:
K01atd          K01lvm2-lvmetad    K01mdadm        K01open-vm-tools
K01ebtables     K01lvm2-lvmpolld   K01mysql        K01rsyslog
K01irqbalance   K01lxcfs           K01nginx        K01ufw
K01iscsid       K01lxd             K01open-iscsi   K01uuidd

/etc/rc2.d:
S01acpid            S01grub-common    S01mdadm          S01rsyslog
S01apport           S01irqbalance     S01mysql          S01ssh
S01atd              S01lvm2-lvmetad   S01nginx          S01unattended-upgrades
S01console-setup.sh S01lvm2-lvmpolld  S01open-vm-tools  S01uuidd
S01cron             S01lxcfs          S01plymouth
S01dbus             S01lxd            S01rsync

/etc/rc3.d:
S01acpid            S01grub-common    S01mdadm          S01rsyslog
S01apport           S01irqbalance     S01mysql          S01ssh
S01atd              S01lvm2-lvmetad   S01nginx          S01unattended-upgrades
S01console-setup.sh S01lvm2-lvmpolld  S01open-vm-tools  S01uuidd
S01cron             S01lxcfs          S01plymouth
S01dbus             S01lxd            S01rsync

/etc/rc4.d:
S01acpid            S01grub-common    S01mdadm          S01rsyslog
S01apport           S01irqbalance     S01mysql          S01ssh
S01atd              S01lvm2-lvmetad   S01nginx          S01unattended-upgrades
```

```
S01console-setup.sh  S01lvm2-lvmpolld  S01open-vm-tools  S01uuidd
S01cron               S01lxcfs          S01plymouth
S01dbus               S01lxd            S01rsync


/etc/rc5.d:
S01acpid              S01grub-common    S01mdadm          S01rsyslog
S01apport             S01irqbalance     S01mysql          S01ssh
S01atd                S01lvm2-lvmetad   S01nginx          S01unattended-upgrades
S01console-setup.sh  S01lvm2-lvmpolld  S01open-vm-tools  S01uuidd
S01cron               S01lxcfs          S01plymouth
S01dbus               S01lxd            S01rsync


/etc/rc6.d:
K01atd                K01lvm2-lvmpolld  K01open-iscsi
K01cryptdisks         K01lxcfs          K01open-vm-tools
K01cryptdisks-early   K01lxd            K01plymouth
K01ebtables           K01mdadm          K01rsyslog
K01irqbalance         K01mdadm-waitidle K01unattended-upgrades
K01iscsid             K01mysql          K01uuidd
K01lvm2-lvmetad       K01nginx


/etc/rcS.d:
S01apparmor           S01iscsid            S01open-iscsi     S01udev
S01cryptdisks         S01keyboard-setup.sh S01plymouth-log   S01ufw
S01cryptdisks-early   S01kmod              S01procps         S01x11-common
S01ebtables           S01lvm2              S01screen-cleanup


/etc/rsyslog.d:
20-ufw.conf  21-cloudinit.conf  50-default.conf


/etc/sensors.d:


/etc/sudoers.d:
jupyterhub-admins   README


/etc/sysctl.d:
10-console-messages.conf   10-lxd-inotify.conf       10-zeropage.conf
10-ipv6-privacy.conf       10-magic-sysrq.conf       99-sysctl.conf
10-kernel-hardening.conf   10-network-security.conf  README
10-link-restrictions.conf  10-ptrace.conf


/etc/tmpfiles.d:
screen-cleanup.conf


/etc/update-motd.d:
00-header             80-livepatch         97-overlayroot
10-help-text          90-updates-available 98-fsck-at-reboot
50-landscape-sysinfo  91-release-upgrade   98-reboot-required
```

```
    50-motd-news           92-unattended-upgrades
    80-esm                 95-hwe-eol
```

[81]: `pwd`

```
/home/jupyter-cubefiction
```

[83]: `ls /home/*cubefiction/cola`

```
cubefiction   tola
```

[84]: `pwd`

```
/home/jupyter-cubefiction
```

[85]: `ls`

```
10       abcd     cubefiction.ipynb   riigth            Untitled6.ipynb
1.txt    a.jpg    d.txt               tola             'Untitled Folder'
2.txt    a.mp3    mola                Untitled1.ipynb  'Untitled Folder 1'
34.azg   a.txt    new-{1-3}.txt       Untitled2.ipynb   Untitled.ipynb
3.png    b.txt    right               Untitled3.ipynb   z.jpg
3.txt    cola     right3              Untitled4.ipynb   z.txt
abc      c.txt    right4              Untitled5.ipynb
```

[86]: `cd /home/*unisatkz/cola`

```
bash: cd: /home/*unisatkz/cola: No such file or directory
```

[88]: `cd /home`

[89]: `ls /home`

```
azat                    jupyter-cubefiction     jupyter-official-nanakai
jupyter-admin           jupyter-danenok         jupyter-orissim
jupyter-aiana178        jupyter-darganius       jupyter-tsagynysh
jupyter-aigerimunisat   jupyter-ekdana          jupyter-unisat
jupyter-aizadait        jupyter-inkar601        jupyter-unisat39
jupyter-amayakof        jupyter-kkenzh          jupyter-unisatkz
jupyter-amirkhan        jupyter-nazymungarova   jupyter-yeldana
jupyter-arayka          jupyter-nuray.serkali   jupyter-zhandos
jupyter-aruzhan149      jupyter-nurike          jupyter-zhanelbaltabay
jupyter-aselleon        jupyter-nurlaura        jupyter-zhannaspace
jupyter-azat            jupyter-nurlaura2
```

[91]: `cd /home/azat`

```
[92]: pwd
```

/home/azat

```
[94]: cd /home/jupyter-cubefiction
```

```
[95]: pwd
```

/home/jupyter-cubefiction

```
[96]: cd /home
```

```
[97]: ls -l
```

```
total 128
drwxr-xr-x 12 azat                azat                4096 Apr 16
18:14 azat
drwxr-x---  8 jupyter-admin       jupyter-admin       4096 Apr  9
16:35 jupyter-admin
drwxr-x--- 10 jupyter-aiana178    jupyter-aiana178    4096 Apr 15
04:42 jupyter-aiana178
drwxr-x--- 12 jupyter-aigerimunisat  jupyter-aigerimunisat  4096 Apr 16
16:54 jupyter-aigerimunisat
drwxr-x---  8 jupyter-aizadait    jupyter-aizadait    4096 Mar 28
01:17 jupyter-aizadait
drwxr-x--- 10 jupyter-amayakof    jupyter-amayakof    4096 Apr 11
13:24 jupyter-amayakof
drwxr-x---  7 jupyter-amirkhan    jupyter-amirkhan    4096 Mar 21
13:40 jupyter-amirkhan
drwxr-x---  4 jupyter-arayka      jupyter-arayka      4096 Mar 18
17:22 jupyter-arayka
drwxr-x---  8 jupyter-aruzhan149  jupyter-aruzhan149  4096 Apr 16
14:57 jupyter-aruzhan149
drwxr-x---  7 jupyter-aselleon    jupyter-aselleon    4096 Mar 23
19:08 jupyter-aselleon
drwxr-x--- 12 jupyter-azat        jupyter-azat        4096 Mar 23
22:20 jupyter-azat
drwxr-x--- 12 jupyter-cubefiction jupyter-cubefiction 4096 Apr 17
18:55 jupyter-cubefiction
drwxr-x--- 12 jupyter-danenok     jupyter-danenok     4096 Apr 16
17:16 jupyter-danenok
drwxr-x---  7 jupyter-darganius   jupyter-darganius   4096 Mar 23
12:19 jupyter-darganius
drwxr-x--- 10 jupyter-ekdana      jupyter-ekdana      4096 Apr  4
15:43 jupyter-ekdana
drwxr-x--- 11 jupyter-inkar601    jupyter-inkar601    4096 Apr 11
13:03 jupyter-inkar601
drwxr-x--- 13 jupyter-kkenzh      jupyter-kkenzh      4096 Apr 17
```

```
                                          15:49 jupyter-kkenzh
drwxr-x--- 10 jupyter-nazymungarova     jupyter-nazymungarova     4096 Apr  8
16:03 jupyter-nazymungarova
drwxr-x---  7 jupyter-nuray.serkali     jupyter-nuray.serkali     4096 Mar 19
17:09 jupyter-nuray.serkali
drwxr-x---  7 jupyter-nurike            jupyter-nurike            4096 Mar 24
04:56 jupyter-nurike
drwxr-x---  8 jupyter-nurlaura          jupyter-nurlaura          4096 Mar 28
00:09 jupyter-nurlaura
drwxr-x---  9 jupyter-nurlaura2         jupyter-nurlaura2         4096 Apr  9
14:36 jupyter-nurlaura2
drwxr-x--- 13 jupyter-official-nanakai jupyter-official-nanakai 4096 Apr 16
00:18 jupyter-official-nanakai
drwxr-x--- 11 jupyter-orissim           jupyter-orissim           4096 Apr  8
23:57 jupyter-orissim
drwxr-x--- 10 jupyter-tsagynysh         jupyter-tsagynysh         4096 Apr 16
17:40 jupyter-tsagynysh
drwxr-x--- 15 jupyter-unisat            jupyter-unisat            4096 Apr  2
17:10 jupyter-unisat
drwxr-x---  7 jupyter-unisat39          jupyter-unisat39          4096 Apr 16
16:38 jupyter-unisat39
drwxr-x--- 16 jupyter-unisatkz          jupyter-unisatkz          4096 Apr 16
18:48 jupyter-unisatkz
drwxr-x---  4 jupyter-yeldana           jupyter-yeldana           4096 Mar 23
16:17 jupyter-yeldana
drwxr-x---  5 jupyter-zhandos           jupyter-zhandos           4096 Mar 23
12:19 jupyter-zhandos
drwxr-x---  8 jupyter-zhanelbaltabay    jupyter-zhanelbaltabay    4096 Apr  4
10:22 jupyter-zhanelbaltabay
drwxr-x--- 13 jupyter-zhannaspace       jupyter-zhannaspace       4096 Apr 16
15:14 jupyter-zhannaspace
```

[98]: `pwd`

/home

[99]: `touch testfile`

touch: cannot touch 'testfile': Permission denied

[100]: `cd`

[101]: `pwd`

/home/jupyter-cubefiction

```
[102]: touch testfile
```

```
[103]: ls -l
```

```
total 124
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:14  10
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:06  1.txt
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:06  2.txt
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:31  34.azg
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:22  3.png
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:06  3.txt
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:14  abc
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:14  abcd
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:22  a.jpg
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:22  a.mp3
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:16  a.txt
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:16  b.txt
drwxr-xr-x 4 jupyter-cubefiction jupyter-cubefiction  4096 Apr 17 17:59  cola
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:16  c.txt
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction 16674 Mar 28 03:14
cubefiction.ipynb
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:16  d.txt
drwxr-xr-x 2 jupyter-cubefiction jupyter-cubefiction  4096 Apr 17 17:58  mola
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:06
new-{1-3}.txt
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:10  right
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:09  right3
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:09  right4
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:10  riigth
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 19:02
testfile
drwxr-xr-x 2 jupyter-cubefiction jupyter-cubefiction  4096 Apr 17 17:59  tola
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction  7052 Apr  2 17:35
Untitled1.ipynb
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction  2185 Apr  2 17:45
Untitled2.ipynb
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction   410 Apr  2 17:47
Untitled3.ipynb
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction   873 Apr  9 17:01
Untitled4.ipynb
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction  8503 Apr 17 17:33
Untitled5.ipynb
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction 46939 Apr 17 19:01
Untitled6.ipynb
drwxr-xr-x 2 jupyter-cubefiction jupyter-cubefiction  4096 Apr 17 17:59
'Untitled Folder'
drwxr-xr-x 2 jupyter-cubefiction jupyter-cubefiction  4096 Apr  2 17:46
```

```
'Untitled Folder 1'
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction   786 Apr  2 16:45
Untitled.ipynb
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:22  z.jpg
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction     0 Apr 17 18:17  z.txt
```

[104]: `ls -l testfile`

```
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction 0 Apr 17 19:02 testfile
```

[105]:
```
touck ok
ls -l ok
```

```
Command 'touck' not found, did you mean:

  command 'touch' from deb coreutils

Try: apt install <deb name>

ls: cannot access 'ok': No such file or directory
```

[106]: `ls -l testfile`

```
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction 0 Apr 17 19:02 testfile
```

[107]: `chmod u+w testfile`

[108]: `ls -l testfile`

```
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction 0 Apr 17 19:02 testfile
```

[109]: `chmod u-w testfile`

[110]: `ls -l testfile`

```
-r--r--r-- 1 jupyter-cubefiction jupyter-cubefiction 0 Apr 17 19:02 testfile
```

[111]: `chmod u+w testfile`

[112]: `ls -l testfile`

```
-rw-r--r-- 1 jupyter-cubefiction jupyter-cubefiction 0 Apr 17 19:02 testfile
```

[113]: `chmod g-r testfile`

[114]: `ls -l testfile`

```
        -rw----r-- 1 jupyter-cubefiction jupyter-cubefiction 0 Apr 17 19:02 testfile
```

[117]: `chmod g+w testfile`

[118]: `ls -l testfile`

```
        -rw--w-r-- 1 jupyter-cubefiction jupyter-cubefiction 0 Apr 17 19:02 testfile
```

[119]: `chmod o+w testfile`

[120]: `ls -l testfile`

```
        -rw--w-rw- 1 jupyter-cubefiction jupyter-cubefiction 0 Apr 17 19:02 testfile
```

[121]: `chmod o-r testfile`

[122]: `ls -l testfile`

```
        -rw--w--w- 1 jupyter-cubefiction jupyter-cubefiction 0 Apr 17 19:02 testfile
```

[127]: `chmod u+wrx testfile`

[129]: `ls -l testfile`

```
        -rwx-w--w- 1 jupyter-cubefiction jupyter-cubefiction 0 Apr 17 19:02 testfile
```

[130]: `chmod u+wr g+wr o+wr testfile`

```
        chmod: cannot access 'g+wr': No such file or directory
        chmod: cannot access 'o+wr': No such file or directory
```

[1]: `egrep`

```
        Usage: grep [OPTION]… PATTERN [FILE]…
        Try 'grep --help' for more information.
```

[2]: `grep--help`

```
        grep--help: command not found
```

[3]: `$grep--help`

```
        --help: command not found
```

```
[4]:  man
      help
```

What manual page do you want?
GNU bash, version 4.4.20(1)-release (x86_64-pc-linux-gnu)
These shell commands are defined internally. Type `help' to see this list.
Type `help name' to find out more about the function `name'.
Use `info bash' to find out more about the shell in general.
Use `man -k' or `info' to find out more about commands not in this list.

A star (*) next to a name means that the command is disabled.


```
 job_spec [&]                            history [-c] [-d offset] [n] or hist>
 (( expression ))                        if COMMANDS; then COMMANDS; [ elif C>
 . filename [arguments]                  jobs [-lnprs] [jobspec …] or jobs >
 :                                       kill [-s sigspec | -n signum | -sigs>
 [ arg… ]                               let arg [arg …]
 [[ expression ]]                        local [option] name[=value] …
 alias [-p] [name[=value] … ]           logout [n]
 bg [job_spec …]                        mapfile [-d delim] [-n count] [-O or>
 bind [-lpsvPSVX] [-m keymap] [-f file>  popd [-n] [+N | -N]
 break [n]                               printf [-v var] format [arguments]
 builtin [shell-builtin [arg …]]        pushd [-n] [+N | -N | dir]
 caller [expr]                           pwd [-LP]
 case WORD in [PATTERN [| PATTERN]…)>  read [-ers] [-a array] [-d delim] [->
 cd [-L|[-P [-e]] [-@]] [dir]            readarray [-n count] [-O origin] [-s>
 command [-pVv] command [arg …]         readonly [-aAf] [name[=value] …] o>
 compgen [-abcdefgjksuv] [-o option] [>  return [n]
 complete [-abcdefgjksuv] [-pr] [-DE] >  select NAME [in WORDS … ;] do COMM>
 compopt [-o|+o option] [-DE] [name ..>  set [-abefhkmnptuvxBCHP] [-o option->
 continue [n]                            shift [n]
 coproc [NAME] command [redirections]    shopt [-pqsu] [-o] [optname …]
 declare [-aAfFgilnrtux] [-p] [name[=v>  source filename [arguments]
 dirs [-clpv] [+N] [-N]                  suspend [-f]
 disown [-h] [-ar] [jobspec … | pid >  test [expr]
 echo [-neE] [arg …]                    time [-p] pipeline
 enable [-a] [-dnps] [-f filename] [na>  times
 eval [arg …]                           trap [-lp] [[arg] signal_spec …]
 exec [-cl] [-a name] [command [argume>  true
 exit [n]                                type [-afptP] name [name …]
 export [-fn] [name[=value] …] or ex>  typeset [-aAfFgilnrtux] [-p] name[=v>
 false                                   ulimit [-SHabcdefiklmnpqrstuvxPT] [l>
 fc [-e ename] [-lnr] [first] [last] o>  umask [-p] [-S] [mode]
 fg [job_spec]                           unalias [-a] name [name …]
 for NAME [in WORDS … ] ; do COMMAND>  unset [-f] [-v] [-n] [name …]
 for (( exp1; exp2; exp3 )); do COMMAN>  until COMMANDS; do COMMANDS; done
 function name { COMMANDS ; } or name >  variables - Names and meanings of so>
```

```
getopts optstring name [arg]          wait [-n] [id ...]
hash [-lr] [-p pathname] [-dt] [name >  while COMMANDS; do COMMANDS; done
help [-dms] [pattern ...]                { COMMANDS ; }
```

[5]: `pwd`

/home/jupyter-cubefiction

[6]: `pwd`

/home/jupyter-cubefiction

[7]: `cat mysimplesata.txt`

cat: mysimplesata.txt: No such file or directory

[8]: `pwd`

/home/jupyter-cubefiction

[9]: `ls`

```
10      a.mp3           new-{1-3}.txt       Untitled3.ipynb
1.txt   a.txt           right               Untitled4.ipynb
2.txt   b.txt           right3              Untitled5.ipynb
34.azg  cola            right4              Untitled6.ipynb
3.png   c.txt           riigth             'Untitled Folder'
3.txt   cubefiction.ipynb  testfile        'Untitled Folder 1'
abc     d.txt           tola                Untitled.ipynb
abcd    mola            Untitled1.ipynb     z.jpg
a.jpg   mysampledata.txt  Untitled2.ipynb   z.txt
```

[10]: `cd`

[11]: `pwd`

/home/jupyter-cubefiction

[12]: `ls mysampledata.txt`

mysampledata.txt

[14]: `cat mysampledata.txt`

Fred apples 20
Susy oranges 5
Susy oranges 5

```
Susy oranges 5
Mark watermellons 12
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
```

[16]: `egrep 'mellon' mysampledata.txt`

```
Mark watermellons 12
Oliver rockmellons 2
```

[17]: `egrep -n 'mellon' mysampledata.txt`

```
5:Mark watermellons 12
14:Oliver rockmellons 2
```

[18]: `egrep -c 'mellon' mysampledata.txt`

```
2
```

[19]: `egrep '[aeiou]' mysampledata.txt`

```
Fred apples 20
Susy oranges 5
Susy oranges 5
Susy oranges 5
Mark watermellons 12
Robert pears 4
Terry oranges 9
Lisa peaches 7
Susy oranges 12
Mark grapes 39
Mark grapes 39
Anne mangoes 7
Greg pineapples 3
Oliver rockmellons 2
Betty limes 14
```

[21]: `egrep '[aeiou]{2,}' mysampledata.txt`

```
Robert pears 4
```

```
Lisa peaches 7
Anne mangoes 7
Greg pineapples 3
```

[32]: `egrep '2' mysampledata.txt`

```
Fred apples 20
Mark watermellons 12
Susy oranges 12
Oliver rockmellons 2
```

[33]: `egrep '2.' mysampledata.txt`

```
Fred apples 20
```

[34]: `egrep '2.+' mysampledata.txt`

```
Fred apples 20
```

[35]: `egrep '2' mysampledata.txt`

```
Fred apples 20
Mark watermellons 12
Susy oranges 12
Oliver rockmellons 2
```

[36]: `egrep '+2' mysampledata.txt`

```
Fred apples 20
Mark watermellons 12
Susy oranges 12
Oliver rockmellons 2
```

[37]: `#a`

[38]: `egrep '^A+' mysampledata.txt`

```
Anne mangoes 7
```

[39]: `egrep '[A-K]' mysampledata.txt`

```
Fred apples 20
Anne mangoes 7
Greg pineapples 3
Betty limes 14
John apples 200
```

[41]: `ls > myoutput`

```
[43]: cat myoutput
```

```
10
1.txt
2.txt
34.azg
3.png
3.txt
abc
abcd
a.jpg
a.mp3
a.txt
b.txt
cola
c.txt
cubefiction.ipynb
d.txt
egrepandre_2.pdf
mola
myoutput
mysampledata.txt
new-{1-3}.txt
right
right3
right4
riigth
testfile
tola
Untitled1.ipynb
Untitled2.ipynb
Untitled3.ipynb
Untitled4.ipynb
Untitled5.ipynb
Untitled6.ipynb
Untitled Folder
Untitled Folder 1
Untitled.ipynb
z.jpg
z.txt
```

```
[44]: ls >> myoutput
```

```
[45]: cat myoutput
```

```
10
1.txt
2.txt
```

```
34.azg
3.png
3.txt
abc
abcd
a.jpg
a.mp3
a.txt
b.txt
cola
c.txt
cubefiction.ipynb
d.txt
egrepandre_2.pdf
mola
myoutput
mysampledata.txt
new-{1-3}.txt
right
right3
right4
riigth
testfile
tola
Untitled1.ipynb
Untitled2.ipynb
Untitled3.ipynb
Untitled4.ipynb
Untitled5.ipynb
Untitled6.ipynb
Untitled Folder
Untitled Folder 1
Untitled.ipynb
z.jpg
z.txt
10
1.txt
2.txt
34.azg
3.png
3.txt
abc
abcd
a.jpg
a.mp3
a.txt
b.txt
cola
```

```
c.txt
cubefiction.ipynb
d.txt
egrepandre_2.pdf
mola
myoutput
mysampledata.txt
new-{1-3}.txt
right
right3
right4
riigth
testfile
tola
Untitled1.ipynb
Untitled2.ipynb
Untitled3.ipynb
Untitled4.ipynb
Untitled5.ipynb
Untitled6.ipynb
Untitled Folder
Untitled Folder 1
Untitled.ipynb
z.jpg
z.txt
```

[1]: `ls`

```
10       a.txt            new-{1-3}.txt    Untitled4.ipynb
1.txt    b.txt            right            Untitled5.ipynb
2.txt    cola             right3           Untitled6.ipynb
34.azg   c.txt            right4           Untitled7.ipynb
3.png    cubefiction.ipynb riigth          'Untitled Folder'
3.txt    d.txt            testfile         'Untitled Folder 1'
abc      egrepandre_2.pdf tola             Untitled.ipynb
abcd     mola             Untitled1.ipynb  z.jpg
a.jpg    myoutput         Untitled2.ipynb  z.txt
a.mp3    mysampledata.txt Untitled3.ipynb
```

[ ]: