

- ls
 - ls -l
 - ls -l /Users
- pwd
- Cd
- Mkdir
 - Mkdir -p first/second/third
 - Mkdir -m a=rwx first
- Touch first.txt second.txt third.txt
- Touch first
- cp a.txt b.txt
- cp a.txt b.txt new_directory
- cp -R old_directory new_directory
- cp -i a.txt b.txt
- cp *.txt DevOps
- mv a.txt b.txt
- mv b.txt new_directory
- mv a.txt b.txt c.txt devops_directory
- mv new_directory hello_directory
- mv -i this_directory hello_directory
- mv -f this_directory hello_directory
- rm a.txt
- rm b.txt c.txt d.txt
- rm -i a.txt
- rm -r hello_directory
- rm -r *
- rm -- -file.txt
- rmdir HELLO DEVOPS TESTING
- rmdir -p 1stDirectory/2ndDirectory/3rdDirectory
- cat a.txt
- cat a.txt b.txt
- cat -n a.txt
- cat > a.txt
- cat a.txt > b.txt
- cat a.txt >> b.txt
- cat a.txt b.txt c.txt > new_file.txt
- cat >> a.txt
- grep -i "UNix" a.txt
- grep -c "unix" a.txt
- grep -l "unix" * || grep -l "unix" a.txt b.txt c.txt d.txt
- grep -w "unix" a.txt
- grep -n "unix" a.txt
- grep -A1 learn a.txt
- grep -B1 learn a.txt

- `grep -iR simple Projects/DevOpsTraining`
- `chmod u+rw a.txt`
- `chmod go-w hello.txt`
- `chmod u+rw,go+r hello.txt`
- `chmod 674 hello.txt`
- `chmod 777 hello.txt`
- `chmod 755 a.txt`
- `sudo`
- `su - abusufyan`
- `ps`
- `ps -A`
- `ps -p 93814`
- `kill -9 93814`
- `chown abusufyan hello.txt`
- `chown :Testing linux.txt`
- `chown abusufyan:Testing yum.txt`
- `chown -f :Testing linux.txt`
- `chown -f devops:Testing hello.txt sample.txt yum.txt`
- `ssh abusufyan@10.143.90.2`
- `ssh -i rbm-staging.pem ubuntu@10.900.100.00`
- `scp hello.txt ubuntu@10.900.100.00:/home/user`
- `scp ubuntu@10.900.100.00:/home/user/hello.txt`
- `scp -P 2222 hello.txt ubuntu@10.900.100.00:/home/user`
- `scp -r view.erb ubuntu@10.900.100.00:/home/`
- `wget https://practice.geeksforgeeks.org/jobs`
- `wget -recursive https://practice.geeksforgeeks.org/jobs`
- `tar cf file.tar hello.txt`
- `tar cvf file.tar *.txt`
- `tar xvf file.tar`
- `tar cvzf file.tar.gz *.txt`
- `tar xvzf file.tar.gz`
- `tar cvfj file.tar.tbz *.txt`
- `tar xvfj file.tar`
- `ifconfig`
- `ifconfig -a`
- `ifconfig -v`
- `ping www.geeksforgeeks.org`
- `ping -c 5 www.geeksforgeeks.org`
- `ping -s 40 -c 5 www.geeksforgeeks.org`
- `ping -i 2 www.geeksforgeeks.org`
- `ping -c 5 -q www.geeksforgeeks.org`
- `traceroute google.com`
- `df`
- `df -h`

- du
- du -h
- du -a
- du -s
- stat
- stat file.txt || file.tar
- history | grep df
- !! (to see most recent command)
- history -c
- history -d
- history | tail
- sort hello.txt
- sort -i hello.txt
- tail -n 1 hello.txt
- tail -c 1 hello.txt
- Lsof
- lsof -u abusufyan
- ld
- id -G || id -g
- id abusufyan || id -g abusufyan || id -u abusufyan
- diff a.txt b.txt
- find Projects/DevOpsTraining -name hello.txt
- ipconfig getifaddr en0
- nslookup google.com
- Hostname
- whoami
- Clear
- printenv
- pwd
- cd -
- head -n 2 hello.txt
- ls -ld
- curl <https://www.google.com>
- curl ifconfig.me
- brew list
- brew info git
- brew uninstall --ignore-dependencies
- brew deps python3

```
→ DevOpsTraining brew deps python3  
ca-certificates  
mpdecimal  
openssl@1.1  
readline  
sqlite  
xz
```

```
→ DevOpsTraining Mkdir -p first/second/third  
→ DevOpsTraining ls  
LinuxCommands a.txt          baeldung.txt  first  
Samp           b.txt          file.tar      geeks.html
```

```
→ first Touch first.txt second.txt third.txt  
→ first ls  
first.txt  second    second.txt third.txt
```

```
→ first cat > first.txt
```

```
hello
```

```
sample text
```

```
^C
```

```
→ first cat first
```

```
cat: first: No such file or directory
```

```
→ first cat first.txt
```

```
hello
```

```
sample text
```

```
→ first cat second.txt
```

```
→ first cp first.txt second.txt
```

```
→ first cat second.txt
```

```
hello
```

```
sample text
```

```
→ first cp first.txt second.txt second
```

```
→ first ls second
```

```
first.txt  second.txt  third
```

```
→ first ls second
first.txt  second.txt  third
→ first mkdir third
→ first cp second third
cp: second is a directory (not copied).
→ first cp -R second third
→ first ls third
second
first.txt
```

```
→ first mv first.txt simple.txt
→ first ls
second      second.txt  simple.txt  third      third.txt
→ first ls
```

```
second      second.txt  simple.txt  third      third.txt
→ first mv second.txt simple.txt third
→ first ls
second      third      third.txt
→ first ls third
second      second.txt  simple.txt
```

```
→ first ls third
second      second.txt  simple.txt
→ first mv third fourth
→ first ls
fourth      second      third.txt
→ first
```

```
→ first rm fourth
rm: fourth: is a directory
→ first rmdir fourth
rmdir: fourth: Directory not empty
→ first rmdir -r fourth
rmdir: illegal option -- r
usage: rmdir [-pv] directory ...
→ first rm -r fourth
→ first ls
second    third.txt
```

```
second    third.txt
→ first rm *.txt
→ first ls
second
```

→ **second** cat first.txt

hello

sample text

→ **second** cat first.txt second.txt

hello

sample text

hello

sample text

→ **second** cat -n first.txt second.txt

1 hello

2 sample text

1 hello

2 sample text

→ **second** cat - first.txt second.txt

^C

→ **second** cat -l first.txt second.txt

hello

sample text

hello

sample text

→ **second** cat > no.txt

hdsbchsd jdsnbchd

dsvnsdv

dsvdhjbvd

^C

→ **second** cat no.txt >> first.txt

→ **second** cat first.txt

hello


```
→ second grep -i "DsVn" first.txt  
dsvnsdv
```

```
→ ~ ipconfig getifaddr en0  
15.15.28.15
```

```
→ ~ nslookup google.com  
Server:           8.8.8.8  
Address:          8.8.8.8#53  
  
Non-authoritative answer:  
Name:   google.com  
Address: 142.250.201.142
```

```
→ DevOpsTraining hostname  
Devs-MacBook-Pro-105.local
```

```
→ DevOpsTraining whoami  
dev
```

```

➤ DevOpsTraining printenv
TERM_SESSION_ID=0t1p0:37FD79A3-155C-4686-B943-5CECCB6938A5
SSH_AUTH_SOCK=/private/tmp/com.apple.launchd.Ud27oZt1kx/Listeners
LC_TERMINAL_VERSION=3.4.22
COLORFGBG=15;0
ITERM_PROFILE=Default
XPC_FLAGS=0x0
PWD=/Users/dev/Projects/DevOpsTraining
SHELL=/bin/zsh
__CFBundleIdentifier=com.googlecode.iterm2
SECURITYSESSIONID=186a3
LC_CTYPE=UTF-8
TERM_PROGRAM_VERSION=3.4.22
TERM_PROGRAM=iterm.app
PATH=/Users/dev/.rvm/gems/ruby-2.7.1/bin:/Users/dev/.rvm/gems/ruby-2.7.1@global/bin:/Users/dev/.rvm/rubies/ruby-2.7.1/bin:/Users/dev/.rvm/vendor/nvm/v16.19.0/bin:/usr/local/bin:/usr/bin:/bin:/usr/sbin:/sbin:/usr/local/share/dotnet:/usr/local/share/dotnet/tools:/Library/Apple/usr/bin:/Applications/Visual Studio Code.app/Contents/Resources/app/bin:/usr/local/share/dotnet/dotnet:/Users/dev/.rvm/bin
LC_TERMINAL=iterm2
COLORTERM=truecolor
COMMAND_MODE=unix2003
TERM=xterm-256color
HOME=/Users/dev
TMPDIR=/var/folders/zz/9ly2x_mn1qs0Fb1h2wf6mkj80000gn/T/
USER=dev
XPC_SERVICE_NAME=0
LOGNAME=dev
LaunchInstanceID=1C3C86F8-FB06-4686-A6E7-55D1573F858A
TERM_SESSION_ID=0t1p0:37FD79A3-155C-4686-B943-5CECCB6938A5
__CF_USER_TEXT_ENCODING=0x0:0:2
SHLVL=1
OLDPWD=/Users/dev
ZSH=/Users/dev/.oh-my-zsh
PAGER=less
LESS=-R
LS_COLORS=Gxfxcdbxegedabagacad
LS_COLORS=di=1;36;ln=35;so=32;pi=33;ex=31;bd=34;46;cd=34;43;su=30;41;sg=30;46;tw=30;42;ow=30;43
NVM_DIR=/Users/dev/.rvm
NVM_CD_FLAGS=-q
NVM_BIN=/Users/dev/.rvm/vendor/nvm/v16.19.0/bin
NVM_INC=/Users/dev/.rvm/vendor/nvm/v16.19.0/include/node
NODE_OPTIONS=--openssl-legacy-provider
ANDROID_HOME=/Users/dev/Library/Android/sdk
rvm_prefix=/Users/dev
rvm_path=/Users/dev/.rvm
rvm_bin_path=/Users/dev/.rvm/bin
rvm_version=1.29.12-next (master)
MY_RUBY_HOME=/Users/dev/.rvm/rubies/ruby-2.7.1
IRBRC=/Users/dev/.rvm/rubies/ruby-2.7.1/.irbrc
RUBY_VERSION=ruby-2.7.1
rvm_alias_expanded=
rvm_bin_flag=

```

```

➔ DevOpsTraining pwd
/Users/dev/Projects/DevOpsTraining

```

```

➔ DevOpsTraining cd -
~

```

```

➔ DevOpsTraining head -n 2 hello.txt
Simple text for testing
Text to test the commands

```

```

➔ DevOpsTraining ls -ld
drwxr-xr-x  25 dev  staff  800 Nov 15 21:05 .

```

```
→ DevOpsTraining curl ifconfig.me
58.27.193.244%
```

```

➤ DevOpsTraining brew list
➤ Formulae
autocnf      elasticsearch-full  heroku           libksba          lz4             nvm             postgresql@14    wget
automake     gettext            icu4c            libnghttp2       m4             openssl@3.11     python@3.11      xz
bdw-gc       git               krb5             libtasn1         mpdecimal      openssl@1.1      readline         yarn
brotli      git-gui           libassuan        libtool          nettle         openssl@3        redis            zlib
c-ares      gmp               libevent         libunistring     nginx          p11-kit         sqlite           zcl-tk
ca-certificates  gnupg            libgcrpypt       libusb           node           pcree2          pinentry         unar
ccat        gnutls            libpgp-error     libuv            node@16        pinentry        pkg-config       unbound
coreutils   guile             libidn2          libyaml          npth

➤ Casks
expo-xde    visual-studio-code-insiders

```

```

→ DevOpsTraining brew info git
==> git: stable 2.42.1 (bottled), HEAD
Distributed revision control system
https://git-scm.com
/usr/local/Cellar/git/2.40.0 (1,625 files, 47.9MB) *
  Poured from bottle using the formulae.brew.sh API on 2023-04-12 at 20:08:13
From: https://github.com/Homebrew/homebrew-core/blob/HEAD/Formula/g/git.rb
License: GPL-2.0-only
==> Dependencies
Required: gettext ✖, pcre2 ✔
==> Options
--HEAD
      Install HEAD version
==> Caveats
The Tcl/Tk GUIs (e.g. gitk, git-gui) are now in the `git-gui` formula.
Subversion interoperability (git-svn) is now in the `git-svn` formula.

zsh completions and functions have been installed to:
  /usr/local/share/zsh/site-functions
==> Analytics
install: 126,555 (30 days), 355,852 (90 days), 977,171 (365 days)
install-on-request: 124,977 (30 days), 351,210 (90 days), 964,684 (365 days)
build-error: 73 (30 days)

```

```

${ZSH_CUSTOM:-- Desktop Downloads Movies Pictures Projects logfile
Applications Documents Library Music Postman Public psql
→ ~ cd
→ ~ ls
${ZSH_CUSTOM:-- Desktop Downloads Movies Pictures Projects logfile
Applications Documents Library Music Postman Public psql
→ ~ sudo apt-get update

→ ~ ls Projects/DevOpsTraining
LinuxCommands baeldung.txt geeks.html hell ile.tar jobs linux new.tar sample.txt yum.txt
Samp file.tar gfg.txt hello.txt index.html jobs.1 linux.txt pattern.txt simple.html yuppp.txt
→ ~

```

→ DevOpsTraining ls -l

```
total 1440
drwxr-xr-x  5 dev  staff   160 Nov 15 16:10 LinuxCommands
drwxr-xr-x  2 dev  staff    64 Nov 14 11:55 Samp
-rw-r--r--  1 dev  staff  5849 Nov 15 13:56 baeldung.txt
-rw-r--r--  1 dev  staff 21504 Nov 15 14:38 file.tar
-rw-r--r--  1 dev  staff   238 Nov 15 14:29 geeks.html
-rw-r--r--  1 dev  staff    0 Nov 14 12:53 gfg.txt
drwxr-xr-x  4 dev  staff   128 Nov 15 14:46 hell
-rw-r--r--  1 dev  staff    63 Nov 14 11:57 hello.txt
-rw-r--r--  1 dev  staff 21504 Nov 15 14:37 ile.tar
-rw-r--r--  1 dev  staff 184963 Nov 15 11:44 index.html
-rw-r--r--  1 dev  staff 222928 Nov 15 14:29 jobs
-rw-r--r--  1 dev  staff 222928 Nov 15 14:32 jobs.1
-rw-r--r--  1 dev  staff   203 Nov 14 12:14 linux
-rw-r-xr-x  1 dev  staff   265 Nov 14 13:19 linux.txt
-rw-r--r--  1 dev  staff  4096 Nov 15 14:39 new.tar
-rw-r--r--  1 dev  staff    25 Nov 14 12:54 pattern.txt
-rw-r--r--  1 dev  staff   261 Nov 15 11:59 sample.txt
-rw-r--r--  1 dev  staff   144 Nov 14 18:36 simple.html
-rw-r--r--  1 dev  staff    45 Nov 13 18:51 yum.txt
-rw-r--r--  1 dev  staff   216 Nov 14 12:13 yuppp.txt
```

→ DevOpsTraining ls -a

```
.. .DS_Store Samp file.tar gfg.txt hello.txt index.html jobs.1 linux.txt pattern.txt simple.html yuppp.txt
. . LinuxCommands baeldung.txt geeks.html hell ile.tar jobs linux new.tar sample.txt yum.txt
```

→ DevOpsTraining cat hello.txt

```
Simple text for testing
Text to test the commands
Practice test%
```

```
→ DevOpsTraining cat hello.txt gfg.txt geeks.html
Simple text for testing
Text to test the commands
Practice test<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">
<html><head>
<title>301 Moved Permanently</title>
</head><body>
<h1>Moved Permanently</h1>
<p>The document has moved <a href="https://www.geeksforgeeks.org/">here</a>.</p>
</body></html>
```

```
→ DevOpsTraining cat -b hello.txt
 1 Simple text for testing
 2 Text to test the commands
 3 Practice test%
```

```
→ DevOpsTraining sort hello.txt
Practice test
Simple text for testing
Text to test the commands
→ DevOpsTraining sort -i hello.txt
Practice test
Simple text for testing
Text to test the commands
→ DevOpsTraining cat hello.txt
Simple text for testing
Text to test the commands
Practice test%
```

→ DevOpsTraining ifconfig

```
lo0: flags=8049<UP,LOOPBACK,RUNNING,MULTICAST> mtu 16384
    options=1203<RXCSUM, TXCSUM, TXSTATUS, SW_TIMESTAMP>
    inet 127.0.0.1 netmask 0xff000000
    inet6 ::1 prefixlen 128
    inet6 fe80::1%lo0 prefixlen 64 scopeid 0x1
    nd6 options=201<PERFORMNUD,DAD>
gif0: flags=8010<POINTOPOINT,MULTICAST> mtu 1280
stf0: flags=0<> mtu 1280
en0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    options=400<CHANNEL_IO>
    ether f4:5c:89:c8:6f:93
    inet6 fe80::18cd:5c97:bec5:6d33%en0 prefixlen 64 secured scopeid 0x4
    inet6 fd88:4d88:5d86:4f7e:80f:cb96:e246:f25f prefixlen 64 autoconf secured
    inet 15.15.14.20 netmask 0xffffe000 broadcast 15.15.31.255
    nd6 options=201<PERFORMNUD,DAD>
    media: autoselect
    status: active
en1: flags=8963<UP,BROADCAST,SMART,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1500
    options=460<TS04,TS06,CHANNEL_IO>
    ether 82:17:08:14:25:40
    media: autoselect <full-duplex>
    status: inactive
en2: flags=8963<UP,BROADCAST,SMART,RUNNING,PROMISC,SIMPLEX,MULTICAST> mtu 1500
    options=460<TS04,TS06,CHANNEL_IO>
    ether 82:17:08:14:25:41
    media: autoselect <full-duplex>
    status: inactive
bridge0: flags=8863<UP,BROADCAST,SMART,RUNNING,SIMPLEX,MULTICAST> mtu 1500
    options=63<RXCSUM, TXCSUM, TS04, TS06>
    ether 82:17:08:14:25:40
    Configuration:
        id 0:0:0:0:0:0 priority 0 hellotime 0 fwddelay 0
        maxage 0 holdcnt 0 proto stp maxaddr 100 timeout 1200
        root id 0:0:0:0:0:0 priority 0 ifcost 0 port 0
        ipfilter disabled flags 0x0
    member: en1 flags=3<LEARNING,DISCOVER>
        ifmaxaddr 0 port 5 priority 0 path cost 0
    member: en2 flags=3<LEARNING,DISCOVER>
        ifmaxaddr 0 port 6 priority 0 path cost 0
    nd6 options=201<PERFORMNUD,DAD>
```

```
→ DevOpsTraining id
uid=501(dev) gid=20(staff) groups=20(staff),450(_xcs),1(daemon),12(everyone),61(localaccounts),79(_appserverusr),80(admin),81(_appserveradm),98(_lpadmin),204(_developer),703(com.apple.sharepoint.group.3),
702(com.apple.sharepoint.group.2),33(_appstore),100(_lpoperator),250(_analyticsusers),395(com.apple.access_ftp),398(com.apple.access_screensharing),399(com.apple.access_ssh),400(com.apple.access_remote_de
),701(com.apple.sharepoint.group.1),704(com.apple.sharepoint.group.4),333(piavpn)
```

```
id -u [-nr] [user]
→ DevOpsTraining id -g
20
→ DevOpsTraining id -G
20 450 1 12 61 79 80 81 98 204 703 702 33 100 250 395 398 399 400 701 704 333

+ DevOpsTraining id -u abusufyan
502
+ DevOpsTraining id -g devops
20
+ DevOpsTraining id abusufyan
uid=502(abusufyan) gid=20(staff) groups=20(staff),504(Testing),12(everyone),61(localaccounts),703(com.apple.sharepoint.group.3),702(com.apple.sharepoint.group.2),100(_lpoperator),701(com.a
group.1),704(com.apple.sharepoint.group.4),333(piavva)
```



```
→ DevOpsTraining cat > a.txt
```

```
hello
```

```
one
```

```
^C
```

```
→ DevOpsTraining cat > b.txt
```

```
hello
```

```
ono
```

```
^C
```

```
→ DevOpsTraining dif a.txt b.txt
```

```
zsh: command not found: dif
```

```
→ DevOpsTraining diff a.txt b.txt
```

```
2c2
```

```
< one
```

```
---
```

```
> ono
```

```
→ second chmod u+rw a.txt
→ second ls a.txt
a.txt
→ second ls -l a.txt
-rwxr--r-- 1 dev staff 33 Nov 16 15:07 a.txt
→ second chmod go-w a.txt
→ second ls -l a.txt
-rwxr--r-- 1 dev staff 33 Nov 16 15:07 a.txt
→ second chmod u+rw,go+w a.txt
→ second ls -l a.txt
-rwxrw-rw- 1 dev staff 33 Nov 16 15:07 a.txt
→ second chmod 674 a.txt
→ second ls -l a.txt
-rw-rwxr-- 1 dev staff 33 Nov 16 15:07 a.txt
→ second chmod 777 a.txt
→ second ls -l a.txt
-rwxrwxrwx 1 dev staff 33 Nov 16 15:07 a.txt
```