Aws-Linux\_practiced

[ec2-user@ip-172-31-91-66 ~]$ sudo su

[root@ip-172-31-91-66 ec2-user]# mkdir aws

[root@ip-172-31-91-66 ec2-user]# cd aws

[root@ip-172-31-91-66 aws]# ls

[root@ip-172-31-91-66 aws]# cd ..

[root@ip-172-31-91-66 ec2-user]# cd aws

[root@ip-172-31-91-66 aws]# mkdir fruits

[root@ip-172-31-91-66 aws]# cd fruits

[root@ip-172-31-91-66 fruits]# mkdir prog

[root@ip-172-31-91-66 fruits]# cd prog

[root@ip-172-31-91-66 prog]# touch f1.py f2.py

[root@ip-172-31-91-66 prog]# ls

f1.py f2.py

[root@ip-172-31-91-66 prog]# mkdir work

[root@ip-172-31-91-66 prog]# mv f1.py f2.py work

[root@ip-172-31-91-66 prog]# ls

work

[root@ip-172-31-91-66 prog]# cd work

[root@ip-172-31-91-66 work]# ls

f1.py f2.py

[root@ip-172-31-91-66 work]# cd ..

[root@ip-172-31-91-66 prog]# cd ../aws

bash: cd: ../aws: No such file or directory

[root@ip-172-31-91-66 prog]# pwd

/home/ec2-user/aws/fruits/prog

[root@ip-172-31-91-66 prog]# mkdir work1

[root@ip-172-31-91-66 prog]# cd work1

[root@ip-172-31-91-66 work1]# ls

[root@ip-172-31-91-66 work1]# cp -r work work1

cp: cannot stat 'work': No such file or directory

[root@ip-172-31-91-66 work1]# cd ..

[root@ip-172-31-91-66 prog]# cp -r work work1

[root@ip-172-31-91-66 prog]# cd work1

[root@ip-172-31-91-66 work1]# ls

work

[root@ip-172-31-91-66 work1]# cd work

[root@ip-172-31-91-66 work]# ls

f1.py f2.py

[root@ip-172-31-91-66 work]# pwd

/home/ec2-user/aws/fruits/prog/work1/work

[root@ip-172-31-91-66 work]# open

bash: open: command not found

[root@ip-172-31-91-66 work]# open f1.py

bash: open: command not found

[root@ip-172-31-91-66 work]# open work

bash: open: command not found

[root@ip-172-31-91-66 work]# open .

bash: open: command not found

[root@ip-172-31-91-66 work]# ^C

[root@ip-172-31-91-66 work]# ls

f1.py f2.py

[root@ip-172-31-91-66 work]# pwd

/home/ec2-user/aws/fruits/prog/work1/work

[root@ip-172-31-91-66 work]# cat f1.py

[root@ip-172-31-91-66 work]# vim f1.py

[root@ip-172-31-91-66 work]# cat f1.py

a=10

b=20

sum=a+b

print(sum)

[root@ip-172-31-91-66 work]# less f1.py

[root@ip-172-31-91-66 work]# find . -name '\*.py'

./f2.py

./f1.py

[root@ip-172-31-91-66 work]# find . -type d -name src

[root@ip-172-31-91-66 work]# find . -type f -name src

[root@ip-172-31-91-66 work]# find . -type f -size +10c

./f1.py

[root@ip-172-31-91-66 work]# find . -type f -size +11k -size -1m

find: invalid -size type `m'

[root@ip-172-31-91-66 work]# find . -type f -size +11k -size -1M

[root@ip-172-31-91-66 work]# find . -type f -size +1k

[root@ip-172-31-91-66 work]# vim f2.py

[root@ip-172-31-91-66 work]# cat f2.py

a=20

b=5

prod=a\*b

print(prod)

[root@ip-172-31-91-66 work]# gzip -c f1.py

▒DRhf1.pyK▒54▒J▒52▒\*.͵M▒N▒\*(▒▒+▒▒4▒'▒▒[root@ip-172-31-91-66 work]# ls

f1.py f2.py

[root@ip-172-31-91-66 work]# cat f2.py

a=20

b=5

prod=a\*b

print(prod)

[root@ip-172-31-91-66 work]# cat f1.py

a=10

b=20

sum=a+b

print(sum)

[root@ip-172-31-91-66 work]# gzip -c f1.py > f1.py.gz

[root@ip-172-31-91-66 work]# ls

f1.py f1.py.gz f2.py

[root@ip-172-31-91-66 work]# cat f1.py.gz

▒DRhf1.pyK▒54▒J▒52▒\*.͵M▒N▒\*(▒▒+▒▒4▒'▒▒[root@ip-172-31-91-66 work]# pwd

/home/ec2-user/aws/fruits/prog/work1/work

[root@ip-172-31-91-66 work]# tar -cf archive.tar f1.py f2.py

[root@ip-172-31-91-66 work]# ls

archive.tar f1.py f1.py.gz f2.py

[root@ip-172-31-91-66 work]# tar -tf archive.tar

f1.py

f2.py

[root@ip-172-31-91-66 work]# tar -xf archive.tar -c directory

tar: You may not specify more than one '-Acdtrux', '--delete' or '--test-label' option

Try 'tar --help' or 'tar --usage' for more information.

[root@ip-172-31-91-66 work]# tar -xf archive.tar f2.py

[root@ip-172-31-91-66 work]# tar -tf archive.tar

f1.py

f2.py

[root@ip-172-31-91-66 work]# ls -al #alias

total 24

drwxr-xr-x. 2 root root 67 Jun 18 05:36 .

drwxr-xr-x. 3 root root 18 Jun 18 04:26 ..

-rw-r--r--. 1 root root 10240 Jun 18 05:33 archive.tar

-rw-r--r--. 1 root root 29 Jun 18 04:47 f1.py

-rw-r--r--. 1 root root 53 Jun 18 05:31 f1.py.gz

-rw-r--r--. 1 root root 30 Jun 18 05:25 f2.py

[root@ip-172-31-91-66 work]# ls -al

total 24

drwxr-xr-x. 2 root root 67 Jun 18 05:36 .

drwxr-xr-x. 3 root root 18 Jun 18 04:26 ..

-rw-r--r--. 1 root root 10240 Jun 18 05:33 archive.tar

-rw-r--r--. 1 root root 29 Jun 18 04:47 f1.py

-rw-r--r--. 1 root root 53 Jun 18 05:31 f1.py.gz

-rw-r--r--. 1 root root 30 Jun 18 05:25 f2.py

[root@ip-172-31-91-66 work]# tail f2.py

a=20

b=5

prod=a\*b

print(prod)

[root@ip-172-31-91-66 work]# tail-n 5 f2.py

bash: tail-n: command not found

[root@ip-172-31-91-66 work]# tail -n 5 f2.py

a=20

b=5

prod=a\*b

print(prod)

[root@ip-172-31-91-66 work]# tail -n +1 f2.py

a=20

b=5

prod=a\*b

print(prod)

[root@ip-172-31-91-66 work]# tail -n +2 f2.py

b=5

prod=a\*b

print(prod)

[root@ip-172-31-91-66 work]# wc f1.py

4 4 29 f1.py

[root@ip-172-31-91-66 work]# wc -l f1.py

4 f1.py

[root@ip-172-31-91-66 work]# wc -w f1.py

4 f1.py

[root@ip-172-31-91-66 work]# wc -c f1.py

29 f1.py

[root@ip-172-31-91-66 work]# wc -L f1.py

10 f1.py

[root@ip-172-31-91-66 work]# ls -al | wc

7 56 305

[root@ip-172-31-91-66 work]# wc -m f1.py

29 f1.py

[root@ip-172-31-91-66 work]# grep f1.py

^C

[root@ip-172-31-91-66 work]# grep "error" f1.py

[root@ip-172-31-91-66 work]# touch cars

[root@ip-172-31-91-66 work]# vim cars

[root@ip-172-31-91-66 work]# cat cars

Baleno

Breeza

Thor Rox

Vitara

Mecedes

Mustang

Altroz

[root@ip-172-31-91-66 work]# sort cars

Altroz

Baleno

Breeza

Mecedes

Mustang

Thor Rox

Vitara

[root@ip-172-31-91-66 work]# sort -r cars

Vitara

Thor Rox

Mustang

Mecedes

Breeza

Baleno

Altroz

[root@ip-172-31-91-66 work]# sort -u cars

Altroz

Baleno

Breeza

Mecedes

Mustang

Thor Rox

Vitara

[root@ip-172-31-91-66 work]# ls cars

cars

[root@ip-172-31-91-66 work]# cat cars

Baleno

Breeza

Thor Rox

Vitara

Mecedes

Mustang

Altroz

[root@ip-172-31-91-66 work]# ls | sort

archive.tar

cars

f1.py

f1.py.gz

f2.py

[root@ip-172-31-91-66 work]# uniq cars

Baleno

Breeza

Thor Rox

Vitara

Mecedes

Mustang

Altroz

[root@ip-172-31-91-66 work]# ls | uniq

archive.tar

cars

f1.py

f1.py.gz

f2.py

[root@ip-172-31-91-66 work]# touch morecars

[root@ip-172-31-91-66 work]# vim morecars

[root@ip-172-31-91-66 work]# cat morecars

Baleno

Thor rox

Vitara

Breeza

Tayota

Suzuki

[root@ip-172-31-91-66 work]# diff cars morecars

2,3c2

< Breeza

< Thor Rox

---

> Thor rox

5,7c4,6

< Mecedes

< Mustang

< Altroz

---

> Breeza

> Tayota

> Suzuki

[root@ip-172-31-91-66 work]# diff morecars cars

2,3d1

< Thor rox

< Vitara

5,6c3,7

< Tayota

< Suzuki

---

> Thor Rox

> Vitara

> Mecedes

> Mustang

> Altroz

[root@ip-172-31-91-66 work]# diff -y cars morecars

Baleno Baleno

Breeza | Thor rox

Thor Rox <

Vitara Vitara

Mecedes | Breeza

Mustang | Tayota

Altroz | Suzuki

[root@ip-172-31-91-66 work]# diff -u cars morecars

--- cars 2025-06-18 07:16:39.029907441 +0000

+++ morecars 2025-06-18 07:28:53.270689961 +0000

@@ -1,7 +1,6 @@

Baleno

-Breeza

-Thor Rox

+Thor rox

Vitara

-Mecedes

-Mustang

-Altroz

+Breeza

+Tayota

+Suzuki

[root@ip-172-31-91-66 work]# testing ls dir1

bash: testing: command not found

[root@ip-172-31-91-66 work]# testing ls work

bash: testing: command not found

[root@ip-172-31-91-66 work]# testing ls work cars

bash: testing: command not found

[root@ip-172-31-91-66 work]# echo "hello"

hello

[root@ip-172-31-91-66 work]# echo "hello" >> cars

[root@ip-172-31-91-66 work]# ls

archive.tar cars f1.py f1.py.gz f2.py morecars

[root@ip-172-31-91-66 work]# cat cars

Baleno

Breeza

Thor Rox

Vitara

Mecedes

Mustang

Altroz

hello

[root@ip-172-31-91-66 work]# echo "hii" > cars

[root@ip-172-31-91-66 work]# cat cars

hii

[root@ip-172-31-91-66 work]# name="Sudheer"

[root@ip-172-31-91-66 work]# echo "hello, $name"

hello, Sudheer

[root@ip-172-31-91-66 work]# echo "the path variable is $PATH"

the path variable is /root/.local/bin:/root/bin:/usr/local/sbin:/usr/local/bin:/usr/sbin:/usr/bin:/sbin:/bin:/var/lib/snapd/snap/bin

[root@ip-172-31-91-66 work]# echo "the path variable is $cars"

the path variable is

[root@ip-172-31-91-66 work]# echo "the path variable is $work"

the path variable is

[root@ip-172-31-91-66 work]# echo "the path variable is \$work"

the path variable is $work

[root@ip-172-31-91-66 work]# echo \*

archive.tar cars f1.py f1.py.gz f2.py morecars

[root@ip-172-31-91-66 work]# echo 1\*

1\*

[root@ip-172-31-91-66 work]# echo 0\*

0\*

[root@ip-172-31-91-66 work]# echo ~

/root

[root@ip-172-31-91-66 work]# echo o\*

o\*

[root@ip-172-31-91-66 work]# echo $(ls -al)

total 32 drwxr-xr-x. 2 root root 95 Jun 18 07:28 . drwxr-xr-x. 3 root root 18 Jun 18 04:26 .. -rw-r--r--. 1 root root 10240 Jun 18 05:33 archive.tar -rw-r--r--. 1 root root 4 Jun 18 09:13 cars -rw-r--r--. 1 root root 29 Jun 18 04:47 f1.py -rw-r--r--. 1 root root 53 Jun 18 05:31 f1.py.gz -rw-r--r--. 1 root root 30 Jun 18 05:25 f2.py -rw-r--r--. 1 root root 44 Jun 18 07:28 morecars

[root@ip-172-31-91-66 work]# echo "$(ls -al)"

total 32

drwxr-xr-x. 2 root root 95 Jun 18 07:28 .

drwxr-xr-x. 3 root root 18 Jun 18 04:26 ..

-rw-r--r--. 1 root root 10240 Jun 18 05:33 archive.tar

-rw-r--r--. 1 root root 4 Jun 18 09:13 cars

-rw-r--r--. 1 root root 29 Jun 18 04:47 f1.py

-rw-r--r--. 1 root root 53 Jun 18 05:31 f1.py.gz

-rw-r--r--. 1 root root 30 Jun 18 05:25 f2.py

-rw-r--r--. 1 root root 44 Jun 18 07:28 morecars

[root@ip-172-31-91-66 work]# chown sudheer morecars

chown: invalid user: ‘sudheer’

[root@ip-172-31-91-66 work]# chown alice morecars

chown: invalid user: ‘alice’

[root@ip-172-31-91-66 work]# getent passwd sudheer

[root@ip-172-31-91-66 work]# sudo useradd sudheer

[root@ip-172-31-91-66 work]# chown sudheer morecars

[root@ip-172-31-91-66 work]# ls

archive.tar cars f1.py f1.py.gz f2.py morecars

[root@ip-172-31-91-66 work]# cat sudheer

cat: sudheer: No such file or directory

[root@ip-172-31-91-66 work]# chown sudheer:devops morecars

chown: invalid group: ‘sudheer:devops’

[root@ip-172-31-91-66 work]# getent group devops

[root@ip-172-31-91-66 work]# sudo groupadd devops

[root@ip-172-31-91-66 work]# chown sudheer:devops morecars

[root@ip-172-31-91-66 work]# ls -al

total 32

drwxr-xr-x. 2 root root 95 Jun 18 07:28 .

drwxr-xr-x. 3 root root 18 Jun 18 04:26 ..

-rw-r--r--. 1 root root 10240 Jun 18 05:33 archive.tar

-rw-r--r--. 1 root root 4 Jun 18 09:13 cars

-rw-r--r--. 1 root root 29 Jun 18 04:47 f1.py

-rw-r--r--. 1 root root 53 Jun 18 05:31 f1.py.gz

-rw-r--r--. 1 root root 30 Jun 18 05:25 f2.py

-rw-r--r--. 1 sudheer devops 44 Jun 18 07:28 morecars

[root@ip-172-31-91-66 work]# chmod a+r f2.py

[root@ip-172-31-91-66 work]# ls -al

total 32

drwxr-xr-x. 2 root root 95 Jun 18 07:28 .

drwxr-xr-x. 3 root root 18 Jun 18 04:26 ..

-rw-r--r--. 1 root root 10240 Jun 18 05:33 archive.tar

-rw-r--r--. 1 root root 4 Jun 18 09:13 cars

-rw-r--r--. 1 root root 29 Jun 18 04:47 f1.py

-rw-r--r--. 1 root root 53 Jun 18 05:31 f1.py.gz

-rw-r--r--. 1 root root 30 Jun 18 05:25 f2.py

-rw-r--r--. 1 sudheer devops 44 Jun 18 07:28 morecars

[root@ip-172-31-91-66 work]# chmod u+r f1.py

[root@ip-172-31-91-66 work]# stat f1.py

File: f1.py

Size: 29 Blocks: 8 IO Block: 4096 regular file

Device: ca01h/51713d Inode: 1206611 Links: 1

Access: (0644/-rw-r--r--) Uid: ( 0/ root) Gid: ( 0/ root)

Context: unconfined\_u:object\_r:user\_home\_t:s0

Access: 2025-06-18 04:47:46.322321312 +0000

Modify: 2025-06-18 04:47:46.322321312 +0000

Change: 2025-06-18 10:58:05.163030172 +0000

Birth: 2025-06-18 04:47:46.322321312 +0000

[root@ip-172-31-91-66 work]# stat morecars

File: morecars

Size: 44 Blocks: 8 IO Block: 4096 regular file

Device: ca01h/51713d Inode: 1206615 Links: 1

Access: (0644/-rw-r--r--) Uid: ( 1001/ sudheer) Gid: ( 1002/ devops)

Context: unconfined\_u:object\_r:user\_home\_t:s0

Access: 2025-06-18 07:28:53.270689961 +0000

Modify: 2025-06-18 07:28:53.270689961 +0000

Change: 2025-06-18 10:41:45.665302727 +0000

Birth: 2025-06-18 07:28:53.270689961 +0000

[root@ip-172-31-91-66 work]# chmod a-r f1.py

[root@ip-172-31-91-66 work]# stat f1.py

File: f1.py

Size: 29 Blocks: 8 IO Block: 4096 regular file

Device: ca01h/51713d Inode: 1206611 Links: 1

Access: (0200/--w-------) Uid: ( 0/ root) Gid: ( 0/ root)

Context: unconfined\_u:object\_r:user\_home\_t:s0

Access: 2025-06-18 04:47:46.322321312 +0000

Modify: 2025-06-18 04:47:46.322321312 +0000

Change: 2025-06-18 11:01:49.440210712 +0000

Birth: 2025-06-18 04:47:46.322321312 +0000

[root@ip-172-31-91-66 work]# umask

0022

[root@ip-172-31-91-66 work]# umask -S

u=rwx,g=rx,o=rx

[root@ip-172-31-91-66 work]# umask 002

[root@ip-172-31-91-66 work]# stat f1.py

File: f1.py

Size: 29 Blocks: 8 IO Block: 4096 regular file

Device: ca01h/51713d Inode: 1206611 Links: 1

Access: (0200/--w-------) Uid: ( 0/ root) Gid: ( 0/ root)

Context: unconfined\_u:object\_r:user\_home\_t:s0

Access: 2025-06-18 04:47:46.322321312 +0000

Modify: 2025-06-18 04:47:46.322321312 +0000

Change: 2025-06-18 11:01:49.440210712 +0000

Birth: 2025-06-18 04:47:46.322321312 +0000

[root@ip-172-31-91-66 work]# ls -l f1.py

--w-------. 1 root root 29 Jun 18 04:47 f1.py

[root@ip-172-31-91-66 work]# umask 002 cars

[root@ip-172-31-91-66 work]# stat cars

File: cars

Size: 4 Blocks: 8 IO Block: 4096 regular file

Device: ca01h/51713d Inode: 1206614 Links: 1

Access: (0644/-rw-r--r--) Uid: ( 0/ root) Gid: ( 0/ root)

Context: unconfined\_u:object\_r:user\_home\_t:s0

Access: 2025-06-18 07:16:39.029907441 +0000

Modify: 2025-06-18 09:13:41.821776945 +0000

Change: 2025-06-18 09:13:41.821776945 +0000

Birth: 2025-06-18 07:16:39.029907441 +0000

[root@ip-172-31-91-66 work]# ls -l cars

-rw-r--r--. 1 root root 4 Jun 18 09:13 cars

[root@ip-172-31-91-66 work]# du

32 .

[root@ip-172-31-91-66 work]# du \*

12 archive.tar

4 cars

4 f1.py

4 f1.py.gz

4 f2.py

4 morecars

[root@ip-172-31-91-66 work]# du -m

1 .

[root@ip-172-31-91-66 work]# du -m \*

1 archive.tar

1 cars

1 f1.py

1 f1.py.gz

1 f2.py

1 morecars

[root@ip-172-31-91-66 work]# du -g

du: invalid option -- 'g'

Try 'du --help' for more information.

[root@ip-172-31-91-66 work]# du -g \*

du: invalid option -- 'g'

Try 'du --help' for more information.

[root@ip-172-31-91-66 work]# du -h \*

12K archive.tar

4.0K cars

4.0K f1.py

4.0K f1.py.gz

4.0K f2.py

4.0K morecars

[root@ip-172-31-91-66 work]# du -h -m \*

1 archive.tar

1 cars

1 f1.py

1 f1.py.gz

1 f2.py

1 morecars

[root@ip-172-31-91-66 work]# du -h archive.tar

12K archive.tar

[root@ip-172-31-91-66 work]# du -ah archive.tar

12K archive.tar

[root@ip-172-31-91-66 work]# du -ah \*

12K archive.tar

4.0K cars

4.0K f1.py

4.0K f1.py.gz

4.0K f2.py

4.0K morecars

[root@ip-172-31-91-66 work]# du -h \* | sort -nr | head

12K archive.tar

4.0K morecars

4.0K f2.py

4.0K f1.py.gz

4.0K f1.py

4.0K cars

[root@ip-172-31-91-66 work]# du -h f1.py | sort -nr | head

4.0K f1.py

[root@ip-172-31-91-66 work]# df

Filesystem 1K-blocks Used Available Use% Mounted on

devtmpfs 4096 0 4096 0% /dev

tmpfs 486088 0 486088 0% /dev/shm

tmpfs 194436 436 194000 1% /run

/dev/xvda1 8310764 1582252 6728512 20% /

tmpfs 486088 0 486088 0% /tmp

/dev/xvda128 10202 1314 8888 13% /boot/efi

tmpfs 97216 0 97216 0% /run/user/1000

[root@ip-172-31-91-66 work]# df -h

Filesystem Size Used Avail Use% Mounted on

devtmpfs 4.0M 0 4.0M 0% /dev

tmpfs 475M 0 475M 0% /dev/shm

tmpfs 190M 436K 190M 1% /run

/dev/xvda1 8.0G 1.6G 6.5G 20% /

tmpfs 475M 0 475M 0% /tmp

/dev/xvda128 10M 1.3M 8.7M 13% /boot/efi

tmpfs 95M 0 95M 0% /run/user/1000

[root@ip-172-31-91-66 work]# df -h \*

Filesystem Size Used Avail Use% Mounted on

/dev/xvda1 8.0G 1.6G 6.5G 20% /

/dev/xvda1 8.0G 1.6G 6.5G 20% /

/dev/xvda1 8.0G 1.6G 6.5G 20% /

/dev/xvda1 8.0G 1.6G 6.5G 20% /

/dev/xvda1 8.0G 1.6G 6.5G 20% /

/dev/xvda1 8.0G 1.6G 6.5G 20% /

[root@ip-172-31-91-66 work]# df -h cars

Filesystem Size Used Avail Use% Mounted on

/dev/xvda1 8.0G 1.6G 6.5G 20% /

[root@ip-172-31-91-66 work]# df -h ec2-user

df: ec2-user: No such file or directory

[root@ip-172-31-91-66 work]# df -h home/ec2-user

df: home/ec2-user: No such file or directory

[root@ip-172-31-91-66 work]# basename /home/ec2-user/aws/fruits/prog/work1/work

work

[root@ip-172-31-91-66 work]# basename /home/ec2-user/aws/fruits/prog/work1/work/f1.py cars

f1.py

[root@ip-172-31-91-66 work]# dirname /home/ec2-user/aws/fruits/prog/work1/work/f1.py

/home/ec2-user/aws/fruits/prog/work1/work

[root@ip-172-31-91-66 work]# dirname /home/ec2-user/aws/fruits/prog/work1/work

/home/ec2-user/aws/fruits/prog/work1

[root@ip-172-31-91-66 work]# whoami

root

[root@ip-172-31-91-66 work]# who

ec2-user pts/0 2025-06-18 04:10 (60.243.185.181)

ec2-user pts/1 2025-06-18 04:10 (60.243.185.181)

[root@ip-172-31-91-66 work]# who -ah

who: invalid option -- 'h'

Try 'who --help' for more information.

[root@ip-172-31-91-66 work]# who -aH

NAME LINE TIME IDLE PID COMMENT EXIT

system boot 2025-06-18 04:05

LOGIN - 2025-06-18 04:05 2152 id=tyS0

LOGIN - 2025-06-18 04:05 2151 id=tty1

run-level 5 2025-06-18 04:06

ec2-user + pts/0 2025-06-18 04:10 08:22 2393 (60.243.185.181)

ec2-user + pts/1 2025-06-18 04:10 . 2492 (60.243.185.181)

pts/2 2025-06-18 10:41 14470 id=ts/2 term=0 exit=0

[root@ip-172-31-91-66 work]# who am i

ec2-user pts/1 2025-06-18 04:10 (60.243.185.181)

[root@ip-172-31-91-66 work]# who -aH am i

NAME LINE TIME IDLE PID COMMENT EXIT

ec2-user + pts/1 2025-06-18 04:10 . 2492 (60.243.185.181)

[root@ip-172-31-91-66 work]# ping google.com

PING google.com (142.251.16.102) 56(84) bytes of data.

64 bytes from bl-in-f102.1e100.net (142.251.16.102): icmp\_seq=1 ttl=106 time=1.56 ms

64 bytes from bl-in-f102.1e100.net (142.251.16.102): icmp\_seq=2 ttl=106 time=1.57 ms

64 bytes from bl-in-f102.1e100.net (142.251.16.102): icmp\_seq=3 ttl=106 time=1.54 ms

64 bytes from bl-in-f102.1e100.net (142.251.16.102): icmp\_seq=4 ttl=106 time=1.61 ms

64 bytes from bl-in-f102.1e100.net (142.251.16.102): icmp\_seq=5 ttl=106 time=1.59 ms

^C

--- google.com ping statistics ---

5 packets transmitted, 5 received, 0% packet loss, time 4006ms

rtt min/avg/max/mdev = 1.537/1.571/1.606/0.024 ms

[root@ip-172-31-91-66 work]# traceroute google.com

traceroute to google.com (172.253.63.101), 30 hops max, 60 byte packets

1 240.3.180.5 (240.3.180.5) 1.082 ms 240.3.180.12 (240.3.180.12) 1.278 ms 0.965 ms

2 \* 99.82.181.22 (99.82.181.22) 0.743 ms 1.053 ms

3 99.82.181.23 (99.82.181.23) 0.862 ms 0.799 ms 72.14.203.158 (72.14.203.158) 1.342 ms

4 \* \* 142.251.255.179 (142.251.255.179) 0.978 ms

5 192.178.243.2 (192.178.243.2) 1.537 ms 142.251.77.62 (142.251.77.62) 1.383 ms 142.251.70.84 (142.251.70.84) 1.085 ms

6 216.239.63.232 (216.239.63.232) 1.564 ms 192.178.110.210 (192.178.110.210) 0.772 ms 216.239.50.97 (216.239.50.97) 2.081 ms

7 142.251.226.103 (142.251.226.103) 1.866 ms 216.239.50.97 (216.239.50.97) 1.974 ms 142.250.215.195 (142.250.215.195) 2.734 ms

8 216.239.42.5 (216.239.42.5) 2.452 ms 142.251.236.105 (142.251.236.105) 2.001 ms 142.250.209.61 (142.250.209.61) 2.041 ms

9 142.250.209.61 (142.250.209.61) 2.086 ms 142.250.208.217 (142.250.208.217) 1.962 ms 209.85.253.3 (209.85.253.3) 2.686 ms

10 \* \* \*

11 \* \* \*

12 \* \* \*

13 \* \* \*

14 \* \* \*

15 \* \* \*

16 \* \* \*

17 \* bi-in-f101.1e100.net (172.253.63.101) 1.857 ms \*

[root@ip-172-31-91-66 work]# history

1 mkdir aws

2 cd aws

3 ls

4 cd ..

5 cd aws

6 mkdir fruits

7 cd fruits

8 mkdir prog

9 cd prog

10 touch f1.py f2.py

11 ls

12 mkdir work

13 mv f1.py f2.py work

14 ls

15 cd work

16 ls

17 cd ..

18 cd ../aws

19 pwd

20 mkdir work1

21 cd work1

22 ls

23 cp -r work work1

24 cd ..

25 cp -r work work1

26 cd work1

27 ls

28 cd work

29 ls

30 pwd

31 open

32 open f1.py

33 open work

34 open .

35 ls

36 pwd

37 cat f1.py

38 vim f1.py

39 cat f1.py

40 less f1.py

41 find . -name '\*.py'

42 find . -type d -name src

43 find . -type f -name src

44 find . -type f -size +10c

45 find . -type f -size +11k -size -1m

46 find . -type f -size +11k -size -1M

47 find . -type f -size +1k

48 vim f2.py

49 cat f2.py

50 gzip -c f1.py

51 ls

52 cat f2.py

53 cat f1.py

54 gzip -c f1.py > f1.py.gz

55 ls

56 cat f1.py.gz

57 pwd

58 tar -cf archive.tar f1.py f2.py

59 ls

60 tar -tf archive.tar

61 tar -xf archive.tar -c directory

62 tar -xf archive.tar f2.py

63 tar -tf archive.tar

64 ls -al #alias

65 ls -al

66 tail f2.py

67 tail-n 5 f2.py

68 tail -n 5 f2.py

69 tail -n +1 f2.py

70 tail -n +2 f2.py

71 wc f1.py

72 wc -l f1.py

73 wc -w f1.py

74 wc -c f1.py

75 wc -L f1.py

76 ls -al | wc

77 wc -m f1.py

78 grep f1.py

79 grep "error" f1.py

80 touch cars

81 vim cars

82 cat cars

83 sort cars

84 sort -r cars

85 sort -u cars

86 ls cars

87 cat cars

88 ls | sort

89 uniq cars

90 ls | uniq

91 touch morecars

92 vim morecars

93 cat morecars

94 diff cars morecars

95 diff morecars cars

96 diff -y cars morecars

97 diff -u cars morecars

98 testing ls dir1

99 testing ls work

100 testing ls work cars

101 echo "hello"

102 echo "hello" >> cars

103 ls

104 cat cars

105 echo "hii" > cars

106 cat cars

107 name="Sudheer"

108 echo "hello, $name"

109 echo "the path variable is $PATH"

110 echo "the path variable is $cars"

111 echo "the path variable is $work"

112 echo "the path variable is \$work"

113 echo \*

114 echo 1\*

115 echo 0\*

116 echo ~

117 echo o\*

118 echo $(ls -al)

119 echo "$(ls -al)"

120 chown sudheer morecars

121 chown alice morecars

122 getent passwd sudheer

123 sudo useradd sudheer

124 chown sudheer morecars

125 ls

126 cat sudheer

127 chown sudheer:devops morecars

128 getent group devops

129 sudo groupadd devops

130 chown sudheer:devops morecars

131 ls -al

132 chmod a+r f2.py

133 ls -al

134 chmod u+r f1.py

135 stat f1.py

136 stat morecars

137 chmod a-r f1.py

138 stat f1.py

139 umask

140 umask -S

141 umask 002

142 stat f1.py

143 ls -l f1.py

144 umask 002 cars

145 stat cars

146 ls -l cars

147 du

148 du \*

149 du -m

150 du -m \*

151 du -g

152 du -g \*

153 du -h \*

154 du -h -m \*

155 du -h archive.tar

156 du -ah archive.tar

157 du -ah \*

158 du -h \* | sort -nr | head

159 du -h f1.py | sort -nr | head

160 df

161 df -h

162 df -h \*

163 df -h cars

164 df -h ec2-user

165 df -h home/ec2-user

166 basename /home/ec2-user/aws/fruits/prog/work1/work

167 basename /home/ec2-user/aws/fruits/prog/work1/work/f1.py cars

168 dirname /home/ec2-user/aws/fruits/prog/work1/work/f1.py

169 dirname /home/ec2-user/aws/fruits/prog/work1/work

170 whoami

171 who

172 who -ah

173 who -aH

174 who am i

175 who -aH am i

176 ping google.com

177 traceroute google.com

178 history

[root@ip-172-31-91-66 work]# clear -x

[root@ip-172-31-91-66 work]# crontab -l

bash: crontab: command not found

[root@ip-172-31-91-66 work]# crontab -e

bash: crontab: command not found

[root@ip-172-31-91-66 work]# uname

Linux

[root@ip-172-31-91-66 work]# uname -m

x86\_64

[root@ip-172-31-91-66 work]# uname -mp

x86\_64 x86\_64

[root@ip-172-31-91-66 work]# uname -p

x86\_64

[root@ip-172-31-91-66 work]# uname -srv

Linux 6.1.140-154.222.amzn2023.x86\_64 #1 SMP PREEMPT\_DYNAMIC Mon Jun 2 15:11:40 UTC 2025

[root@ip-172-31-91-66 work]# uname -n

ip-172-31-91-66.ec2.internal

[root@ip-172-31-91-66 work]# uname -a

Linux ip-172-31-91-66.ec2.internal 6.1.140-154.222.amzn2023.x86\_64 #1 SMP PREEMPT\_DYNAMIC Mon Jun 2 15:11:40 UTC 2025 x86\_64 x86\_64 x86\_64 GNU/Linux

[root@ip-172-31-91-66 work]# sw\_vers

bash: sw\_vers: command not found

[root@ip-172-31-91-66 work]# script session.log

Script started, output log file is 'session.log'.

[root@ip-172-31-91-66 work]# exit

exit

Script done.

[root@ip-172-31-91-66 work]# Read from remote host ec2-44-211-135-252.compute-1.amazonaws.com: Connection reset by peer

Connection to ec2-44-211-135-252.compute-1.amazonaws.com closed.

client\_loop: send disconnect: Connection reset by peer

DELL@DESKTOP-2RL7JUM MINGW64 ~/Downloads/Linux\_pair (master)

$

DELL@DESKTOP-2RL7JUM MINGW64 ~/Downloads/Linux\_pair (master)

$

DELL@DESKTOP-2RL7JUM MINGW64 ~/Downloads/Linux\_pair (master)

$ ssh -i "Linux\_pair.pem" ec2-user@ec2-54-197-16-8.compute-1.amazonaws.com

The authenticity of host 'ec2-54-197-16-8.compute-1.amazonaws.com (54.197.16.8)' can't be established.

ED25519 key fingerprint is SHA256:aBuCN8eCFpeDK+OPDAanISJLdxE1aWKExHPCS7YBhUI.

This host key is known by the following other names/addresses:

~/.ssh/known\_hosts:4: ec2-44-211-135-252.compute-1.amazonaws.com

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added 'ec2-54-197-16-8.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

, #\_

~\\_ ####\_ Amazon Linux 2023

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~~ \###|

~~ \#/ \_\_\_ https://aws.amazon.com/linux/amazon-linux-2023

~~ V~' '->

~~~ /

~~.\_. \_/

\_/ \_/

\_/m/'

Last login: Wed Jun 18 04:10:41 2025 from 60.243.185.181

[ec2-user@ip-172-31-91-66 ~]$ pwd

/home/ec2-user

[ec2-user@ip-172-31-91-66 ~]$ cd work

-bash: cd: work: No such file or directory

[ec2-user@ip-172-31-91-66 ~]$ cd aws

[ec2-user@ip-172-31-91-66 aws]$ cd work1

-bash: cd: work1: No such file or directory

[ec2-user@ip-172-31-91-66 aws]$ cd fruits

[ec2-user@ip-172-31-91-66 fruits]$ prog

-bash: prog: command not found

[ec2-user@ip-172-31-91-66 fruits]$ cd prog

[ec2-user@ip-172-31-91-66 prog]$ cd work1

[ec2-user@ip-172-31-91-66 work1]$ cd work

[ec2-user@ip-172-31-91-66 work]$ pwd

/home/ec2-user/aws/fruits/prog/work1/work

[ec2-user@ip-172-31-91-66 work]$ ls

archive.tar cars f1.py f1.py.gz f2.py morecars session.log

[ec2-user@ip-172-31-91-66 work]$ history

1 sudo su

2 pwd

3 cd work

4 cd aws

5 cd work1

6 cd fruits

7 prog

8 cd prog

9 cd work1

10 cd work

11 pwd

12 ls

13 history

[ec2-user@ip-172-31-91-66 work]$ alias back='cd -'

[ec2-user@ip-172-31-91-66 work]$ cd ../ec2-user

-bash: cd: ../ec2-user: No such file or directory

[ec2-user@ip-172-31-91-66 work]$ cd ..

[ec2-user@ip-172-31-91-66 work1]$ cd work

[ec2-user@ip-172-31-91-66 work]$

Broadcast message from root@ip-172-31-91-66.ec2.internal (Thu 2025-06-19 17:07:04 UTC):

The system will power off now!

Connection to ec2-54-197-16-8.compute-1.amazonaws.com closed by remote host.

Connection to ec2-54-197-16-8.compute-1.amazonaws.com closed.

DELL@DESKTOP-2RL7JUM MINGW64 ~/Downloads/Linux\_pair (master)

$ ssh -i "Linux\_pair.pem" ec2-user@ec2-54-85-108-15.compute-1.amazonaws.com

The authenticity of host 'ec2-54-85-108-15.compute-1.amazonaws.com (54.85.108.15)' can't be established.

ED25519 key fingerprint is SHA256:aBuCN8eCFpeDK+OPDAanISJLdxE1aWKExHPCS7YBhUI.

This host key is known by the following other names/addresses:

~/.ssh/known\_hosts:4: ec2-44-211-135-252.compute-1.amazonaws.com

~/.ssh/known\_hosts:6: ec2-54-197-16-8.compute-1.amazonaws.com

Are you sure you want to continue connecting (yes/no/[fingerprint])? yes

Warning: Permanently added 'ec2-54-85-108-15.compute-1.amazonaws.com' (ED25519) to the list of known hosts.

, #\_

~\\_ ####\_ Amazon Linux 2023

~~ \\_#####\

~~ \###|

~~ \#/ \_\_\_ https://aws.amazon.com/linux/amazon-linux-2023

~~ V~' '->

~~~ /

~~.\_. \_/

\_/ \_/

\_/m/'

Last login: Thu Jun 19 16:25:49 2025 from 60.243.185.181

[ec2-user@ip-172-31-91-66 ~]$ sudo su

[root@ip-172-31-91-66 ec2-user]# pwd

/home/ec2-user

[root@ip-172-31-91-66 ec2-user]# cd work

bash: cd: work: No such file or directory

[root@ip-172-31-91-66 ec2-user]# cd aws/fruits/prog/work1/work

[root@ip-172-31-91-66 work]# top

top - 03:18:15 up 8 min, 2 users, load average: 0.00, 0.01, 0.00

Tasks: 102 total, 1 running, 101 sleeping, 0 stopped, 0 zombie

%Cpu(s): 0.0 us, 0.0 sy, 0.0 ni, 91.5 id, 0.0 wa, 0.0 hi, 0.0 si, 8.5 st

MiB Mem : 949.4 total, 597.0 free, 116.7 used, 235.7 buff/cache

MiB Swap: 0.0 total, 0.0 free, 0.0 used. 695.3 avail Mem

PID USER PR NI VIRT RES SHR S %CPU %MEM TIME+ COMMAND

1 root 20 0 106656 17052 10668 S 0.0 1.8 0:00.75 systemd

2 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kthreadd

3 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu\_gp

4 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 rcu\_par\_gp

5 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 slub\_flushwq

6 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 netns

8 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kworker/0:0H-events\_highpri

9 root 20 0 0 0 0 I 0.0 0.0 0:00.11 kworker/u30:0-events\_unbound

10 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 mm\_percpu\_wq

11 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu\_tasks\_kthread

12 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu\_tasks\_rude\_kthread

13 root 20 0 0 0 0 I 0.0 0.0 0:00.00 rcu\_tasks\_trace\_kthread

14 root 20 0 0 0 0 S 0.0 0.0 0:00.05 ksoftirqd/0

15 root 20 0 0 0 0 I 0.0 0.0 0:00.05 rcu\_preempt

16 root rt 0 0 0 0 S 0.0 0.0 0:00.00 migration/0

17 root 20 0 0 0 0 I 0.0 0.0 0:00.01 kworker/0:1-cgroup\_destroy

18 root 20 0 0 0 0 S 0.0 0.0 0:00.00 cpuhp/0

20 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kdevtmpfs

21 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 inet\_frag\_wq

22 root 20 0 0 0 0 S 0.0 0.0 0:00.00 kauditd

23 root 20 0 0 0 0 S 0.0 0.0 0:00.00 khungtaskd

24 root 20 0 0 0 0 S 0.0 0.0 0:00.00 oom\_reaper

25 root 20 0 0 0 0 I 0.0 0.0 0:00.05 kworker/u30:1-xfs-cil/xvda1

26 root 20 0 0 0 0 I 0.0 0.0 0:00.00 kworker/u30:2-events\_unbound

27 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 writeback

28 root 20 0 0 0 0 S 0.0 0.0 0:00.01 kcompactd0

29 root 39 19 0 0 0 S 0.0 0.0 0:00.00 khugepaged

30 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 cryptd

31 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kintegrityd

32 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 kblockd

33 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 blkcg\_punt\_bio

34 root 20 0 0 0 0 S 0.0 0.0 0:00.00 xen-balloon

35 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 tpm\_dev\_wq

36 root 0 -20 0 0 0 I 0.0 0.0 0:00.00 md

[root@ip-172-31-91-66 work]# jobs

[root@ip-172-31-91-66 work]# kill -1

kill: usage: kill [-s sigspec | -n signum | -sigspec] pid | jobspec ... or kill -l [sigspec]

[root@ip-172-31-91-66 work]# kill 1234

bash: kill: (1234) - No such process

[root@ip-172-31-91-66 work]# kill pid

bash: kill: pid: arguments must be process or job IDs

[root@ip-172-31-91-66 work]# top &

[1] 3079

[root@ip-172-31-91-66 work]# fg

top

top: failed tty set: Interrupted system call

[root@ip-172-31-91-66 work]# job -l

bash: job: command not found

[root@ip-172-31-91-66 work]# jobs -l

[root@ip-172-31-91-66 work]# ls

archive.tar cars f1.py f1.py.gz f2.py morecars session.log

[root@ip-172-31-91-66 work]# ls jobs

ls: cannot access 'jobs': No such file or directory

[root@ip-172-31-91-66 work]# ls jobs -l

ls: cannot access 'jobs': No such file or directory

[root@ip-172-31-91-66 work]# fg

bash: fg: current: no such job

[root@ip-172-31-91-66 work]# type ls

ls is aliased to `ls --color=auto'

[root@ip-172-31-91-66 work]# type cat

cat is /usr/bin/cat

[root@ip-172-31-91-66 work]# type -p ls

[root@ip-172-31-91-66 work]# type mkdir

mkdir is /usr/bin/mkdir

[root@ip-172-31-91-66 work]# type pwd

pwd is a shell builtin

[root@ip-172-31-91-66 work]# type -a pwd

pwd is a shell builtin

pwd is /usr/bin/pwd

pwd is /bin/pwd

[root@ip-172-31-91-66 work]# which

Usage: /usr/bin/which [options] [--] COMMAND [...]

Write the full path of COMMAND(s) to standard output.

--version, -[vV] Print version and exit successfully.

--help, Print this help and exit successfully.

--skip-dot Skip directories in PATH that start with a dot.

--skip-tilde Skip directories in PATH that start with a tilde.

--show-dot Don't expand a dot to current directory in output.

--show-tilde Output a tilde for HOME directory for non-root.

--tty-only Stop processing options on the right if not on tty.

--all, -a Print all matches in PATH, not just the first

--read-alias, -i Read list of aliases from stdin.

--skip-alias Ignore option --read-alias; don't read stdin.

--read-functions Read shell functions from stdin.

--skip-functions Ignore option --read-functions; don't read stdin.

Recommended use is to write the output of (alias; declare -f) to standard

input, so that which can show aliases and shell functions. See which(1) for

examples.

If the options --read-alias and/or --read-functions are specified then the

output can be a full alias or function definition, optionally followed by

the full path of each command used inside of those.

Report bugs to <which-bugs@gnu.org>.

[root@ip-172-31-91-66 work]# which ls

alias ls='ls --color=auto'

/usr/bin/ls

[root@ip-172-31-91-66 work]# which cat

/usr/bin/cat

[root@ip-172-31-91-66 work]# cat f1.py.gz | xargs ls

xargs: WARNING: a NUL character occurred in the input. It cannot be passed through in the argument list. Did you mean to use the --null option?

xargs: unmatched single quote; by default quotes are special to xargs unless you use the -0 option

[root@ip-172-31-91-66 work]# cat f1.py.gz | xargs rm

xargs: WARNING: a NUL character occurred in the input. It cannot be passed through in the argument list. Did you mean to use the --null option?

xargs: unmatched single quote; by default quotes are special to xargs unless you use the -0 option

[root@ip-172-31-91-66 work]# morecars | xargs cat

bash: morecars: command not found

[root@ip-172-31-91-66 work]# emacs

bash: emacs: command not found

[root@ip-172-31-91-66 work]# emacs f1.py

bash: emacs: command not found

[root@ip-172-31-91-66 work]# emacs f1.py

bash: emacs: command not found

[root@ip-172-31-91-66 work]# Read from remote host ec2-54-85-108-15.compute-1.amazonaws.com: Connection reset by peer

Connection to ec2-54-85-108-15.compute-1.amazonaws.com closed.

client\_loop: send disconnect: Connection reset by peer

DELL@DESKTOP-2RL7JUM MINGW64 ~/Downloads/Linux\_pair (master)

$ ssh -i "Linux\_pair.pem" ec2-user@ec2-100-26-99-197.compute-1.amazonaws.com