

2) Execute all scripts shown in video and capture the screenshots.

```
my pc@DESKTOP-N34K8JC MINGW64 ~/Downloads
$ ssh -i linux-test.pem ec2-user@54.164.179.117
Last login: Tue May 27 23:03:16 2025 from 103.143.169.218

#_
~\#####_ Amazon Linux 2
~~\#####\
~~\###| AL2 End of Life is 2026-06-30.
~~\#/
~~V~'-'>
~~~
~~~.
~~\-/
~/m/'-/

A newer version of Amazon Linux is available!

Amazon Linux 2023, GA and supported until 2028-03-15.
https://aws.amazon.com/linux/amazon-linux-2023/
```

```

ec2-user@ip-172-31-25-203 ~]$ sudo su
[root@ip-172-31-25-203 ec2-user]# vi test
[root@ip-172-31-25-203 ec2-user]# ll
total 4
-rw-r--r-- 1 root root 30 May 29 09:13 test
[root@ip-172-31-25-203 ec2-user]# chmod 777 test
[root@ip-172-31-25-203 ec2-user]# ./test

```

	total	used	free	shared	buff/cache
available					
Mem:	952	185	311	0	455
	622				

```

Swap:

```

	0		0		0	
UID	PID	PPID	C	STIME	TTY	TIME CMD
root	1	0	0	May26	?	00:00:20 /usr/lib/systemd/syst
root	2	0	0	May26	?	00:00:00 [kthreadd]
root	3	2	0	May26	?	00:00:00 [rcu_gp]
root	4	2	0	May26	?	00:00:00 [rcu_par_gp]

```
[root@ip-172-31-25-203 ec2-user]# df
```

Filesystem	1K-blocks	Used	Available	Use%	Mounted on
devtmpfs	478416	0	478416	0%	/dev
tmpfs	487764	0	487764	0%	/dev/shm
tmpfs	487764	464	487300	1%	/run
tmpfs	487764	0	487764	0%	/sys/fs/cgroup
/dev/xvda1	8376300	2273648	6102652	28%	/
tmpfs	97556	0	97556	0%	/run/user/1000

```
[root@ip-172-31-25-203 ec2-user]# ps -ef
```

UID	PID	PPID	C	STIME	TTY	TIME	CMD
root	1	0	0	May26	?	00:00:20	/usr/lib/systemd/systd
root	2	0	0	May26	?	00:00:00	[kthreadd]
root	3	2	0	May26	?	00:00:00	[rcu_gp]
root	4	2	0	May26	?	00:00:00	[rcu_par_gp]
root	6	2	0	May26	?	00:00:00	[kworker/0:0H-ev]
root	8	2	0	May26	?	00:00:00	[mm_percpu_wq]
root	9	2	0	May26	?	00:00:00	[rcu_tasks_rude_]
root	10	2	0	May26	?	00:00:00	[rcu_tasks_trace]
root	11	2	0	May26	?	00:00:06	[ksoftirqd/0]
root	12	2	0	May26	?	00:00:05	[rcu_sched]
root	13	2	0	May26	?	00:00:01	[migration/0]
root	15	2	0	May26	?	00:00:00	[cpuhp/0]

```
[root@ip-172-31-25-203 ec2-user]# # echo $0
[root@ip-172-31-25-203 ec2-user]# echo $0
bash
[root@ip-172-31-25-203 ec2-user]# cat /etc/shells
/bin/sh
/bin/bash
/usr/bin/sh
/usr/bin/bash
/bin/tcsh
/bin/csh
```

```
[root@ip-172-31-25-203 ec2-user]# cat /etc/passwd
root:x:0:0:root:/root:/bin/bash
bin:x:1:1:bin:/bin:/sbin/nologin
daemon:x:2:2:daemon:/sbin:/sbin/nologin
adm:x:3:4:adm:/var/adm:/sbin/nologin
lp:x:4:7:lp:/var/spool/lpd:/sbin/nologin
sync:x:5:0:sync:/sbin:/bin/sync
shutdown:x:6:0:shutdown:/sbin:/sbin/shutdown
halt:x:7:0:halt:/sbin:/sbin/halt
mail:x:8:12:mail:/var/spool/mail:/sbin/nologin
operator:x:11:0:operator:/root:/sbin/nologin
games:x:12:100:games:/usr/games:/sbin/nologin
ftp:x:14:50:FTP User:/var/ftp:/sbin/nologin
nobody:x:99:99:Nobody:/:/sbin/nologin
systemd-networkd:x:102:102:systemd Network Management:/:/sbin/nologin
```

```
[root@ip-172-31-25-203 ec2-user]# sh
sh-4.2# echo $0
sh
sh-4.2# exit
exit
[root@ip-172-31-25-203 ec2-user]# csh
[root@ip-172-31-25-203 ec2-user]# echo $0
csh
[root@ip-172-31-25-203 ec2-user]# csh
[root@ip-172-31-25-203 ec2-user]# echo $0
csh
[root@ip-172-31-25-203 ec2-user]# ksh
ksh: Command not found.
[root@ip-172-31-25-203 ec2-user]# bash
[root@ip-172-31-25-203 ec2-user]# echo $0
bash
```

```
[root@ip-172-31-25-203 ec2-user]# pwd
/home/ec2-user
[root@ip-172-31-25-203 ec2-user]# mkdir -p /sushma/scripts
[root@ip-172-31-25-203 ec2-user]# cd /sushma/scripts
[root@ip-172-31-25-203 scripts]#
[root@ip-172-31-25-203 scripts]#
[root@ip-172-31-25-203 scripts]#
[root@ip-172-31-25-203 scripts]#
[root@ip-172-31-25-203 scripts]#
[root@ip-172-31-25-203 scripts]#
[root@ip-172-31-25-203 scripts]# ls
[root@ip-172-31-25-203 scripts]# pwd
/sushma/scripts
```

```
/sushma/scripts
[root@ip-172-31-25-203 scripts]# vi hello
[root@ip-172-31-25-203 scripts]# ll
total 4
-rwxrwxrwx 1 root root 29 May 29 12:25 hello
```

```
[root@ip-172-31-25-203 scripts]# pwd
/sushma/scripts
[root@ip-172-31-25-203 scripts]# ll
total 4
-rwxrwxrwx 1 root root 29 May 29 12:25 hello
[root@ip-172-31-25-203 scripts]# cd
[root@ip-172-31-25-203 ~]# pwd
/root
[root@ip-172-31-25-203 ~]# /sushma/scripts/hello
hello world
```

```
[root@ip-172-31-25-203 scripts]# pwd
/sushma/scripts
[root@ip-172-31-25-203 scripts]# ll
total 4
-rwxrwxrwx 1 root root 29 May 29 12:25 hello
[root@ip-172-31-25-203 scripts]# cat hello
#!/bin/bash
echo hello world
[root@ip-172-31-25-203 scripts]# mv hello hell.bash
[root@ip-172-31-25-203 scripts]# ll
total 4
-rwxrwxrwx 1 root root 29 May 29 12:25 hell.bash
[root@ip-172-31-25-203 scripts]# vi abc.bash
```

```
[root@ip-172-31-25-203 scripts]# vi abc.bash
[root@ip-172-31-25-203 scripts]# ll
total 8
-rw-r--r-- 1 root root 22 May 29 13:12 abc.bash
-rwxrwxrwx 1 root root 29 May 29 12:25 hell.bash
[root@ip-172-31-25-203 scripts]# ./abc.bash
bash: ./abc.bash: Permission denied
[root@ip-172-31-25-203 scripts]# bash abc.bash
abc
[root@ip-172-31-25-203 scripts]# chmod 755 abc.bash
[root@ip-172-31-25-203 scripts]# ./abc.bash
abc
```

```
[root@ip-172-31-25-203 scripts]# vi hello.bash
[root@ip-172-31-25-203 scripts]# ll
total 12
-rwxr-xr-x 1 root root 22 May 29 13:12 abc.bash
-rwxrwxrwx 1 root root 29 May 29 12:25 hell.bash
-rw-r--r-- 1 root root 108 May 29 13:40 hello.bash
[root@ip-172-31-25-203 scripts]# ./hello.bash
bash: ./hello.bash: Permission denied
[root@ip-172-31-25-203 scripts]# ./hell.bash
hello world
[root@ip-172-31-25-203 scripts]# cat hell.bash
#!/bin/bash
echo hello world
```

```
[root@ip-172-31-25-203 scripts]# vi hell.bash
[root@ip-172-31-25-203 scripts]# ./hell.bash
hello
[root@ip-172-31-25-203 scripts]#
[root@ip-172-31-25-203 scripts]# cat hell.bash
#!/bin/bash
#purpose: Testing script format
#date: 29/5/2025
#modification: 29/5/2025

a='hello'
echo $a
```

```
[root@ip-172-31-25-203 scripts]# vi hell.bash
[root@ip-172-31-25-203 scripts]# ./hell.bash
hello devops
[root@ip-172-31-25-203 scripts]# cd /sushma/scripts
[root@ip-172-31-25-203 scripts]# ll
total 12
-rwxr-xr-x 1 root root 22 May 29 13:12 abc.bash
-rwxrwxrwx 1 root root 114 May 29 14:01 hell.bash
-rw-r--r-- 1 root root 108 May 29 13:40 hello.bash
[root@ip-172-31-25-203 scripts]# rm -rf *
[root@ip-172-31-25-203 scripts]# ls
```

```
[root@ip-172-31-25-203 scripts]# vi helloworld.bash
[root@ip-172-31-25-203 scripts]# ll
total 4
-rw-r--r-- 1 root root 107 May 29 14:18 helloworld.bash
[root@ip-172-31-25-203 scripts]# chmod 755 helloworld.bash
[root@ip-172-31-25-203 scripts]# ./helloworld.bash
hello world
[root@ip-172-31-25-203 scripts]# vi helloworld.bash
[root@ip-172-31-25-203 scripts]# ./helloworld.bash

hello world
```

```
[root@ip-172-31-25-203 scripts]# vi commands.bash
[root@ip-172-31-25-203 scripts]# chmod commands.bash
chmod: missing operand after 'commands.bash'
Try 'chmod --help' for more information.
[root@ip-172-31-25-203 scripts]# chmod 755 commands.bash
[root@ip-172-31-25-203 scripts]# ll
total 8
-rwxr-xr-x 1 root root 47 May 29 14:26 commands.bash
-rwxr-xr-x 1 root root 116 May 29 14:21 helloworld.bash
[root@ip-172-31-25-203 scripts]# ./commands.bash
/sushma/scripts
commands.bash helloworld.bash
root
Thu May 29 14:27:42 UTC 2025
May 2025
Su Mo Tu We Th Fr Sa
    1  2  3
  4  5  6  7  8  9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31

[root@ip-172-31-25-203 scripts]# cat commands.bash
#!/bin/bash
pwd
ls
whoami
date
cal
touch a b c
[root@ip-172-31-25-203 scripts]# pwd
```

```
[root@ip-172-31-25-203 scripts]# pwd
/sushma/scripts
[root@ip-172-31-25-203 scripts]# ls
a b c commands.bash helloworld.bash
[root@ip-172-31-25-203 scripts]# whoami
root
[root@ip-172-31-25-203 scripts]# date
Thu May 29 14:29:14 UTC 2025
[root@ip-172-31-25-203 scripts]# cal
May 2025
Su Mo Tu We Th Fr Sa
    1  2  3
  4  5  6  7  8  9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31
```

```

[root@ip-172-31-25-203 scripts]# vi commands.bash
[root@ip-172-31-25-203 scripts]# pwdi
bash: pwdi: command not found
[root@ip-172-31-25-203 scripts]# ./commands.bash
./commands.bash: line 2: pwdi: command not found
a b c commands.bash helloworld.bash
root
Thu May 29 14:31:01 UTC 2025
May 2025
Su Mo Tu We Th Fr Sa
      1  2  3
 4  5  6  7  8  9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31

[root@ip-172-31-25-203 scripts]# vi commands.bash
[root@ip-172-31-25-203 scripts]# ./commands.bash
./sushma/scripts
a b c commands.bash helloworld.bash
root
Thu May 29 14:33:38 UTC 2025
May 2025
Su Mo Tu We Th Fr Sa
      1  2  3
 4  5  6  7  8  9 10
11 12 13 14 15 16 17
18 19 20 21 22 23 24
25 26 27 28 29 30 31

```

```

[root@ip-172-31-25-203 scripts]# vi admin.bash
[root@ip-172-31-25-203 scripts]# chmod 755 admin.bash
[root@ip-172-31-25-203 scripts]# ./admin.bash
top - 14:46:05 up 3 days, 2:11, 1 user, load average: 0.01, 0.03,
Tasks: 115 total, 1 running, 71 sleeping, 0 stopped, 0 zombie
%Cpu(s): 0.3 us, 0.6 sy, 0.0 ni, 95.8 id, 0.0 wa, 0.0 hi, 0.0 s
KiB Mem : 975528 total, 311632 free, 193864 used, 470032 buff
KiB Swap: 0 total, 0 free, 0 used. 632712 avai

```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+
1725	root	20	0	0	0	0	S	0.3	0.0	0:52.45
18225	root	20	0	168956	4500	3816	R	0.3	0.5	0:00.02
1	root	20	0	189132	5716	4092	S	0.0	0.6	0:23.21
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
4	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
6	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
8	root	0	-20	0	0	0	I	0.0	0.0	0:00.00
9	root	20	0	0	0	0	S	0.0	0.0	0:00.00
10	root	20	0	0	0	0	S	0.0	0.0	0:00.00
11	root	20	0	0	0	0	S	0.0	0.0	0:07.74
12	root	20	0	0	0	0	I	0.0	0.0	0:05.99
13	root	rt	0	0	0	0	S	0.0	0.0	0:01.18
15	root	20	0	0	0	0	S	0.0	0.0	0:00.00
17	root	20	0	0	0	0	S	0.0	0.0	0:00.00
18	root	0	-20	0	0	0	T	0.0	0.0	0:00.00

```

[root@ip-172-31-25-203 scripts]# vi admin.bash
[root@ip-172-31-25-203 scripts]# ./admin.bash
top - 23:11:17 up 3 days, 10:36, 1 user, load average: 0.03, 0.01,
Tasks: 111 total, 1 running, 68 sleeping, 0 stopped, 0 zombie
%Cpu(s): 6.2 us, 0.0 sy, 0.0 ni, 93.8 id, 0.0 wa, 0.0 hi, 0.0 s
KiB Mem : 975528 total, 309760 free, 189572 used, 476196 buff
KiB Swap: 0 total, 0 free, 0 used. 636896 avai

```

PID	USER	PR	NI	VIRT	RES	SHR	S	%CPU	%MEM	TIME+
1	root	20	0	189132	5716	4092	S	0.0	0.6	0:27.59
2	root	20	0	0	0	0	S	0.0	0.0	0:00.00
3	root	0	-20	0	0	0	I	0.0	0.0	0:00.00

```

Filesystem      Size  Used Avail Use% Mounted on
devtmpfs        468M    0 468M  0% /dev
tmpfs            477M    0 477M  0% /dev/shm
tmpfs            477M  464K 476M  1% /run
tmpfs            477M    0 477M  0% /sys/fs/cgroup
/dev/xvda1       8.0G  2.2G  5.9G 28% /
tmpfs            96M    0  96M  0% /run/user/1000

```

	total	used	free	shared	buff/cache
available					
Mem:	952	185	302	0	465
Swap:	0	0	0		

```

23:11:17 up 3 days, 10:36, 1 user, load average: 0.03, 0.01, 0.00
Linux 5.10.236-228.935.amzn2.x86_64 (ip-172-31-25-203.ec2.internal) 0
5/29/2025 _x86_64_ (1 CPU)

```

avg-cpu:	%user	%nice	%system	%iowait	%steal	%idle
	0.20	0.00	0.28	0.02	3.80	95.70

```

Device:            tps    kB_read/s    kB_wrtn/s    kB_read    kB_wrtn
n
xvda               0.83         1.07         7.30       330134       225166
s

```

```
[root@ip-172-31-25-203 ~]# vi variables.bash
[root@ip-172-31-25-203 ~]# ./variables.bash
-bash: ./variables.bash: Permission denied
[root@ip-172-31-25-203 ~]# chmod 755 variables.bash
[root@ip-172-31-25-203 ~]# ./variables.bash
run variables tasks

/root
variables.bash
root
Thu May 29 23:40:17 UTC 2025

2025

January February March
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
1 2 3 4 1 2 3 1 2 3 4 5 6 7 8
5 6 7 8 9 10 11 2 3 4 5 6 7 8 9 10 11 12 13 14 15
12 13 14 15 16 17 18 9 10 11 12 13 14 15 9 10 11 12 13 14 15
19 20 21 22 23 24 25 16 17 18 19 20 21 22 16 17 18 19 20 21 22
26 27 28 29 30 31 23 24 25 26 27 28 23 24 25 26 27 28 29
30 31

April May June
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
1 2 3 4 5 1 2 3 1 2 3 4 5 6 7
6 7 8 9 10 11 12 4 5 6 7 8 9 10 8 9 10 11 12 13 14
13 14 15 16 17 18 19 11 12 13 14 15 16 17 15 16 17 18 19 20 21
20 21 22 23 24 25 26 18 19 20 21 22 23 24 22 23 24 25 26 27 28
27 28 29 30 25 26 27 28 29 30 31 29 30

July August September
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
1 2 3 4 5 1 2 1 2 3 4 5 6
6 7 8 9 10 11 12 3 4 5 6 7 8 9 7 8 9 10 11 12 13
13 14 15 16 17 18 19 10 11 12 13 14 15 16 14 15 16 17 18 19 20
20 21 22 23 24 25 26 17 18 19 20 21 22 23 21 22 23 24 25 26 27
27 28 29 30 31 24 25 26 27 28 29 30 28 29 30

October November December
Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa Su Mo Tu We Th Fr Sa
1 2 3 4 1 1 2 3 4 5 6
5 6 7 8 9 10 11 2 3 4 5 6 7 8 7 8 9 10 11 12 13
12 13 14 15 16 17 18 9 10 11 12 13 14 15 14 15 16 17 18 19 20
19 20 21 22 23 24 25 16 17 18 19 20 21 22 21 22 23 24 25 26 27
26 27 28 29 30 31 23 24 25 26 27 28 29 28 29 30 31
30
```

```
[root@ip-172-31-25-203 ~]# cat variables.bash
#!/bin/bash
#define variables

p=pwd
l=ls
wi=whoami
d=date
c='cal 2025'

echo run variables tasks
echo
$p
$l
$wi
$d
$c
```

```
[root@ip-172-31-25-203 ~]# vi input.bash
[root@ip-172-31-25-203 ~]# cat inpiut.bash
cat: inpiut.bash: No such file or directory
[root@ip-172-31-25-203 ~]# cat input.bsh
cat: input.bsh: No such file or directory
[root@ip-172-31-25-203 ~]# vi input.bash
[root@ip-172-31-25-203 ~]# cat input.bash
#!/bin/bash
echo hello ,my nam is sushma
echo
echo what is your name?
read name
echo
echo hello $name
echo
[root@ip-172-31-25-203 ~]# chmod 755 input.bash
[root@ip-172-31-25-203 ~]# ./input.bash
hello ,my nam is sushma

what is your name?
karthik

hello karthik
```

3) Execute all the scripts from below attached document.

```
COUNT=0

for INDEX in ${SERVERLIST[@]}; do
    echo "Processing Server: ${SERVERLIST[COUNT]}"
    COUNT=$((COUNT + 1))
done
[root@ip-172-31-80-171 ec2-user]# chmod 755 arrayex.sh
[root@ip-172-31-80-171 ec2-user]# ./arrayex.sh
Processing Server: webserv01
Processing Server: webserv02
Processing Server: webserv03
Processing Server: webserv04
[root@ip-172-31-80-171 ec2-user]#
```

```
[root@ip-172-31-80-171 ec2-user]# vi checkargs.sh
[root@ip-172-31-80-171 ec2-user]# cat checkargs.sh
#!/bin/bash

if [ "$#" != "3" ]; then
    echo "USAGE: checkargs.sh [parm1] [parm2] [parm3]"
    exit 300
fi

echo "I live! I got what I needed!"
[root@ip-172-31-80-171 ec2-user]# chmod 755 checkargs.sh
[root@ip-172-31-80-171 ec2-user]# ./checkargs.sh
USAGE: checkargs.sh [parm1] [parm2] [parm3]
```

```
[root@ip-172-31-80-171 ec2-user]# vi cmdlinevar.sh
[root@ip-172-31-80-171 ec2-user]# cat cmdlinevar.sh
#!/bin/bash
# demo of command line values passed in with our shell script

USERNAME=$1
PASSWORD=$2
echo "The following Username is $USERNAME and Password is $PASSWORD"
[root@ip-172-31-80-171 ec2-user]# chmod 755 cmdlinevar.sh
[root@ip-172-31-80-171 ec2-user]# ./cmdlinevar.sh
The following Username is  and Password is 
[root@ip-172-31-80-171 ec2-user]#
```

```
read MENUCHOICE

case $MENUCHOICE in
    1)
        echo "Congratulations for Choosing the First Option";;
    2)
        echo "Choice 2 Chosen";;
    3)
        echo "Last Choice Made";;
    *)
        echo "You chose unwisely";;

[root@ip-172-31-80-171 ec2-user]# chmod 755 casesample.sh
[root@ip-172-31-80-171 ec2-user]# ./casesample.sh
MAIN MENU
=====
1) Choice One
2) Choice Two
3) Choice Three
Enter Choice:
```