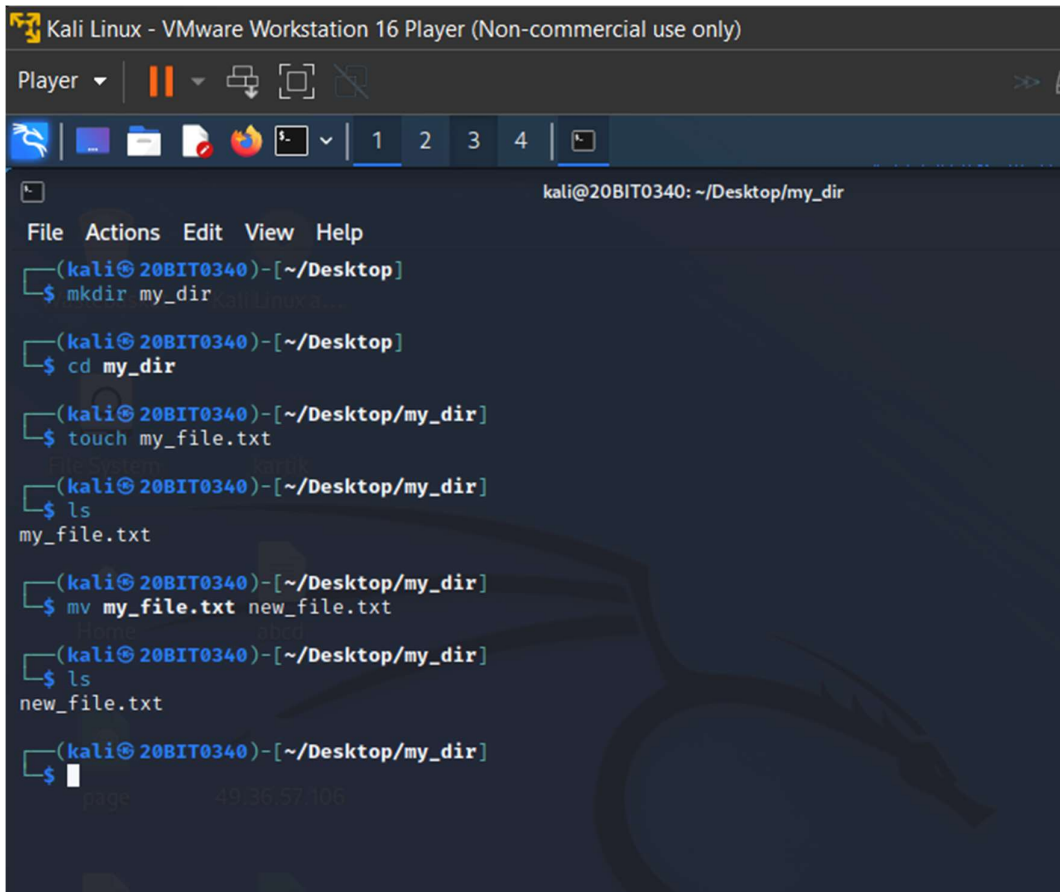


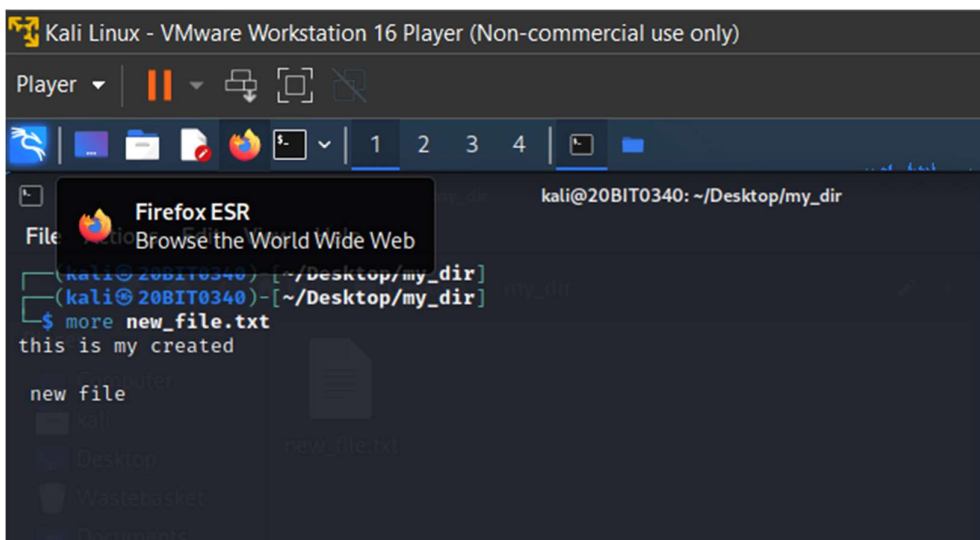
Assessment 2

Assignment: Bash Shell Basics



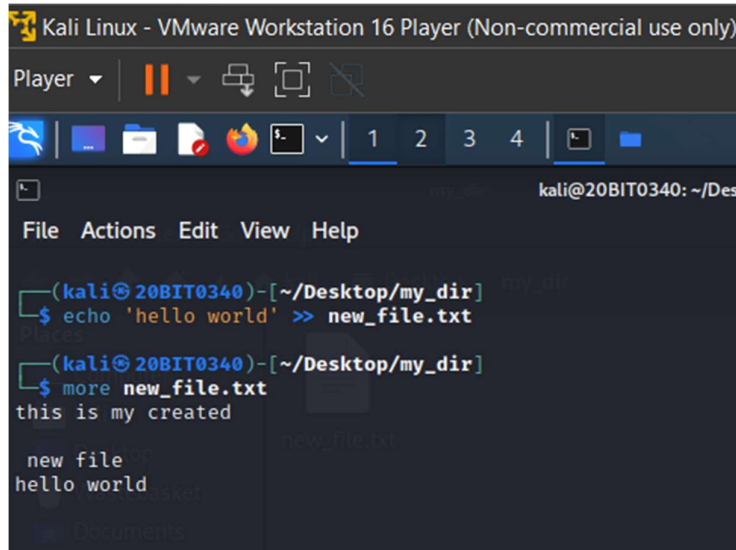
The screenshot shows a Kali Linux terminal window titled "Kali Linux - VMware Workstation 16 Player (Non-commercial use only)". The terminal prompt is "kali@20BIT0340: ~/Desktop/my_dir". The user has executed the following commands:

```
(kali@20BIT0340)-[~/Desktop]
$ mkdir my_dir
(kali@20BIT0340)-[~/Desktop]
$ cd my_dir
(kali@20BIT0340)-[~/Desktop/my_dir]
$ touch my_file.txt
(kali@20BIT0340)-[~/Desktop/my_dir]
$ ls
my_file.txt
(kali@20BIT0340)-[~/Desktop/my_dir]
$ mv my_file.txt new_file.txt
(kali@20BIT0340)-[~/Desktop/my_dir]
$ ls
new_file.txt
(kali@20BIT0340)-[~/Desktop/my_dir]
$
```

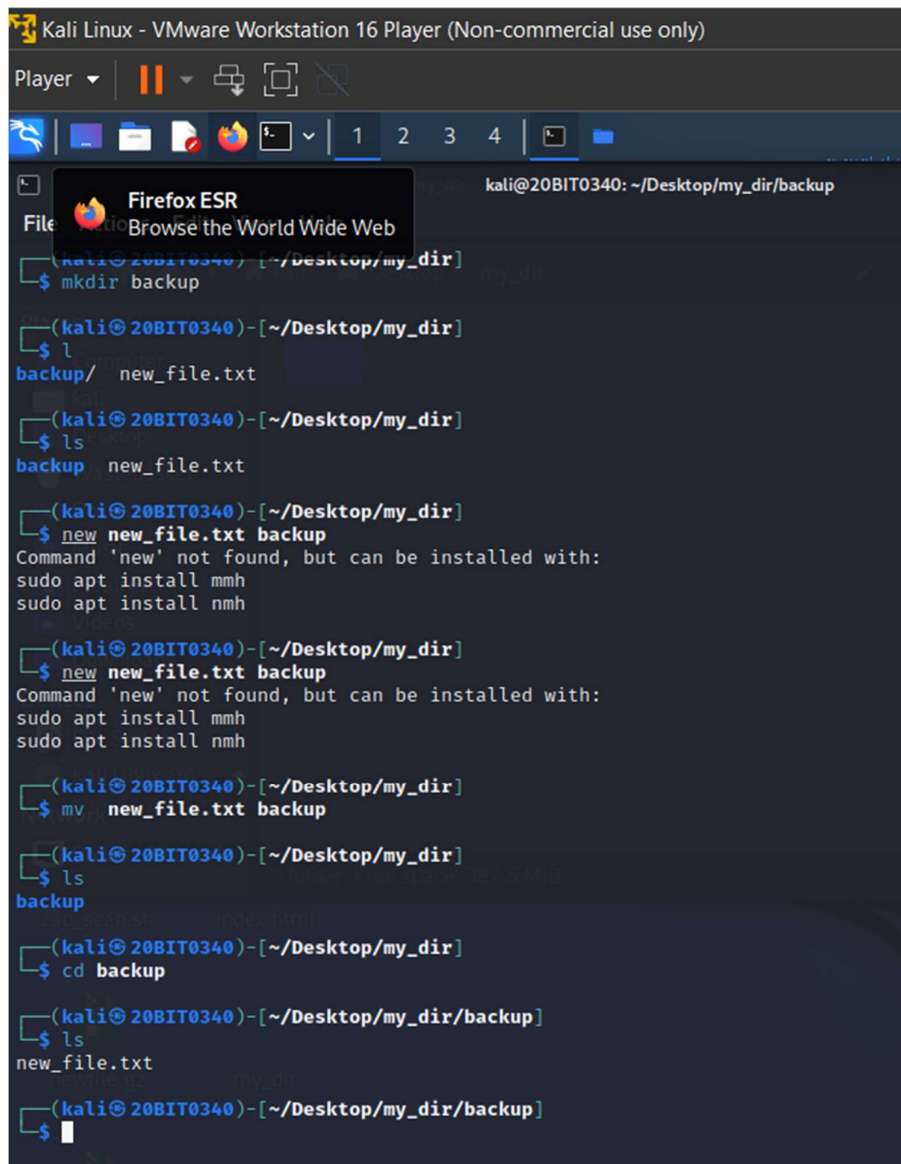


The screenshot shows the same Kali Linux terminal window. A Firefox ESR window is open in the foreground, partially obscuring the terminal. The terminal prompt is "kali@20BIT0340: ~/Desktop/my_dir". The user has executed the following commands:

```
(kali@20BIT0340)-[~/Desktop/my_dir]
$ more new_file.txt
this is my created
new file
kali
Desktop
Wastebasket
Documents
```



```
Kali Linux - VMware Workstation 16 Player (Non-commercial use only)
Player
File Actions Edit View Help
kali@20BIT0340: ~/Des
(kali@20BIT0340)-[~/Desktop/my_dir]
$ echo 'hello world' >> new_file.txt
(kali@20BIT0340)-[~/Desktop/my_dir]
$ more new_file.txt
this is my created
new file
hello world
```



```
Kali Linux - VMware Workstation 16 Player (Non-commercial use only)
Player
File Actions Edit View Help
kali@20BIT0340: ~/Desktop/my_dir/backup
(kali@20BIT0340)-[~/Desktop/my_dir]
$ mkdir backup
(kali@20BIT0340)-[~/Desktop/my_dir]
$ ls
backup/ new_file.txt
(kali@20BIT0340)-[~/Desktop/my_dir]
$ ls
backup new_file.txt
(kali@20BIT0340)-[~/Desktop/my_dir]
$ new new_file.txt backup
Command 'new' not found, but can be installed with:
sudo apt install mmh
sudo apt install nmh
(kali@20BIT0340)-[~/Desktop/my_dir]
$ new new_file.txt backup
Command 'new' not found, but can be installed with:
sudo apt install mmh
sudo apt install nmh
(kali@20BIT0340)-[~/Desktop/my_dir]
$ mv new_file.txt backup
(kali@20BIT0340)-[~/Desktop/my_dir]
$ ls
backup
(kali@20BIT0340)-[~/Desktop/my_dir]
$ cd backup
(kali@20BIT0340)-[~/Desktop/my_dir/backup]
$ ls
new_file.txt
(kali@20BIT0340)-[~/Desktop/my_dir/backup]
$
```

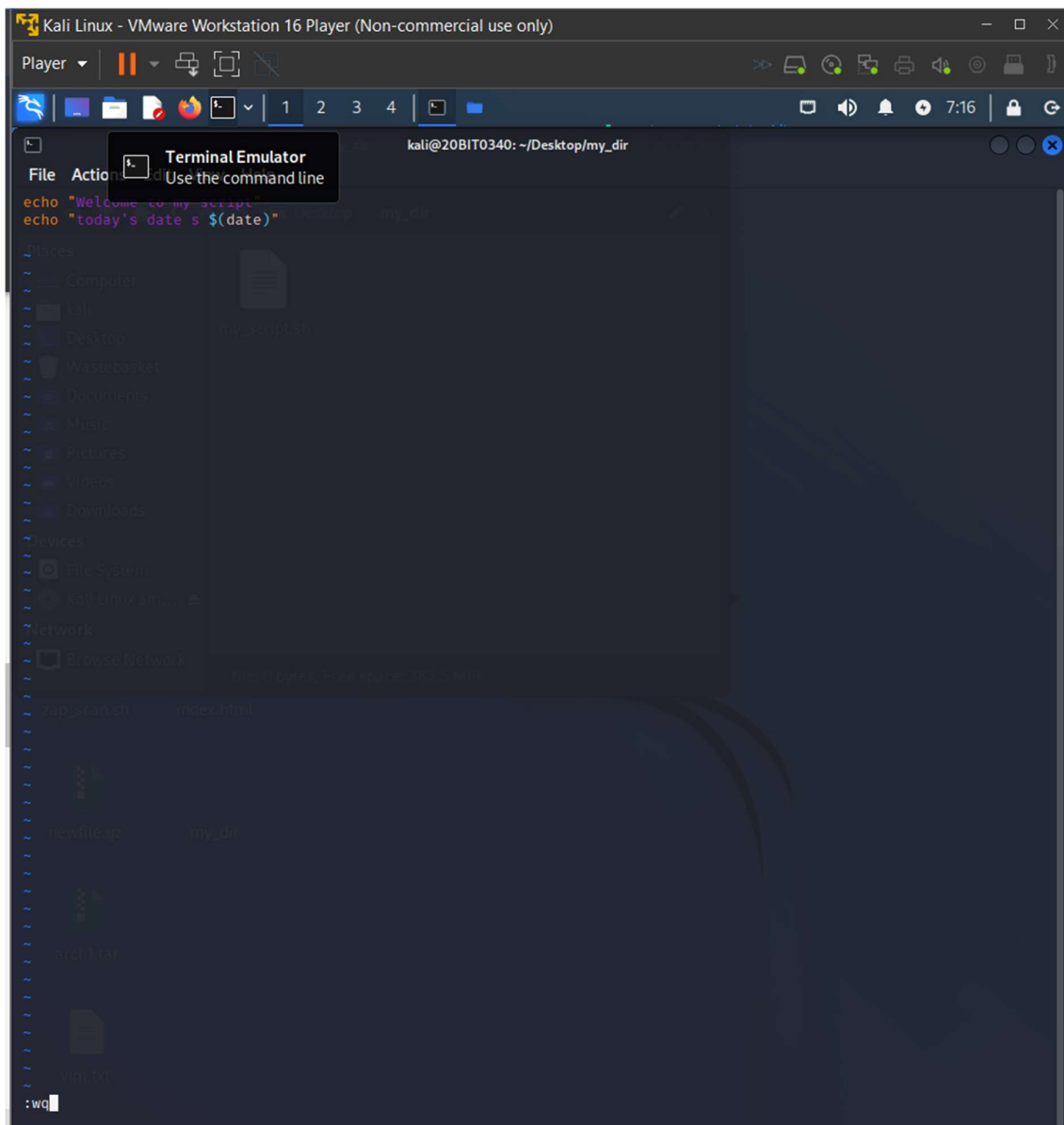
```
(kali㉿20BIT0340)-[~/Desktop]
$ cd my_dir

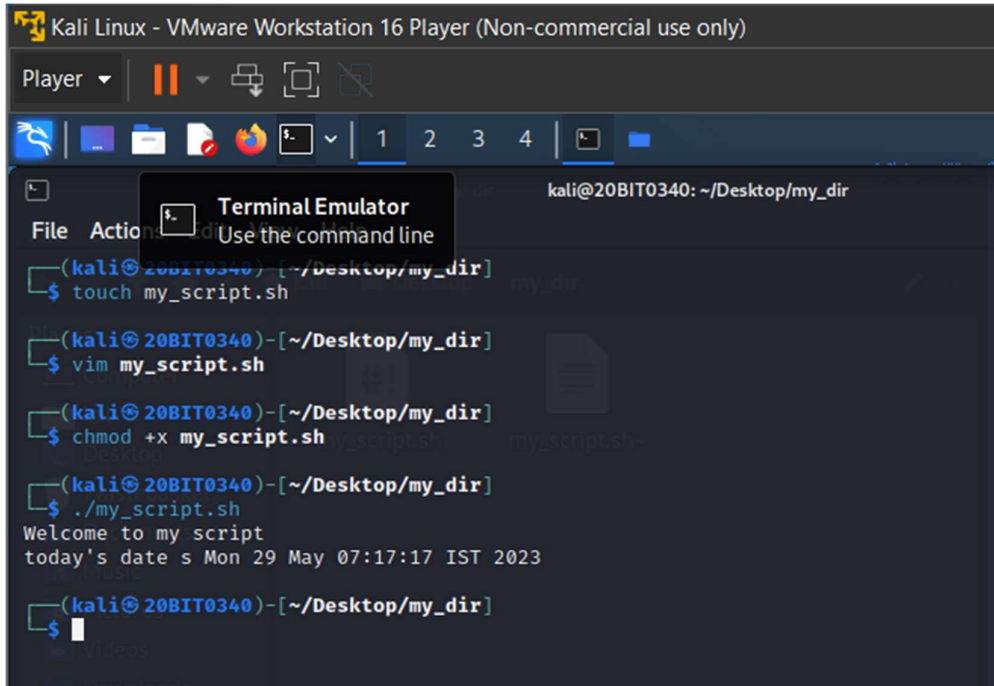
(kali㉿20BIT0340)-[~/Desktop/my_dir]
$ rm -rf backup

(kali㉿20BIT0340)-[~/Desktop/my_dir]
$ ls

(kali㉿20BIT0340)-[~/Desktop/my_dir]
$
```

Permissions and scripting





```

Kali Linux - VMware Workstation 16 Player (Non-commercial use only)

Player | [Icons] | 1 2 3 4 | [Icons]

kali@20BIT0340: ~/Desktop/my_dir

File Action [Terminal Emulator] Use the command line

(kali@20BIT0340) [~/Desktop/my_dir]
$ touch my_script.sh

(kali@20BIT0340) [~/Desktop/my_dir]
$ vim my_script.sh

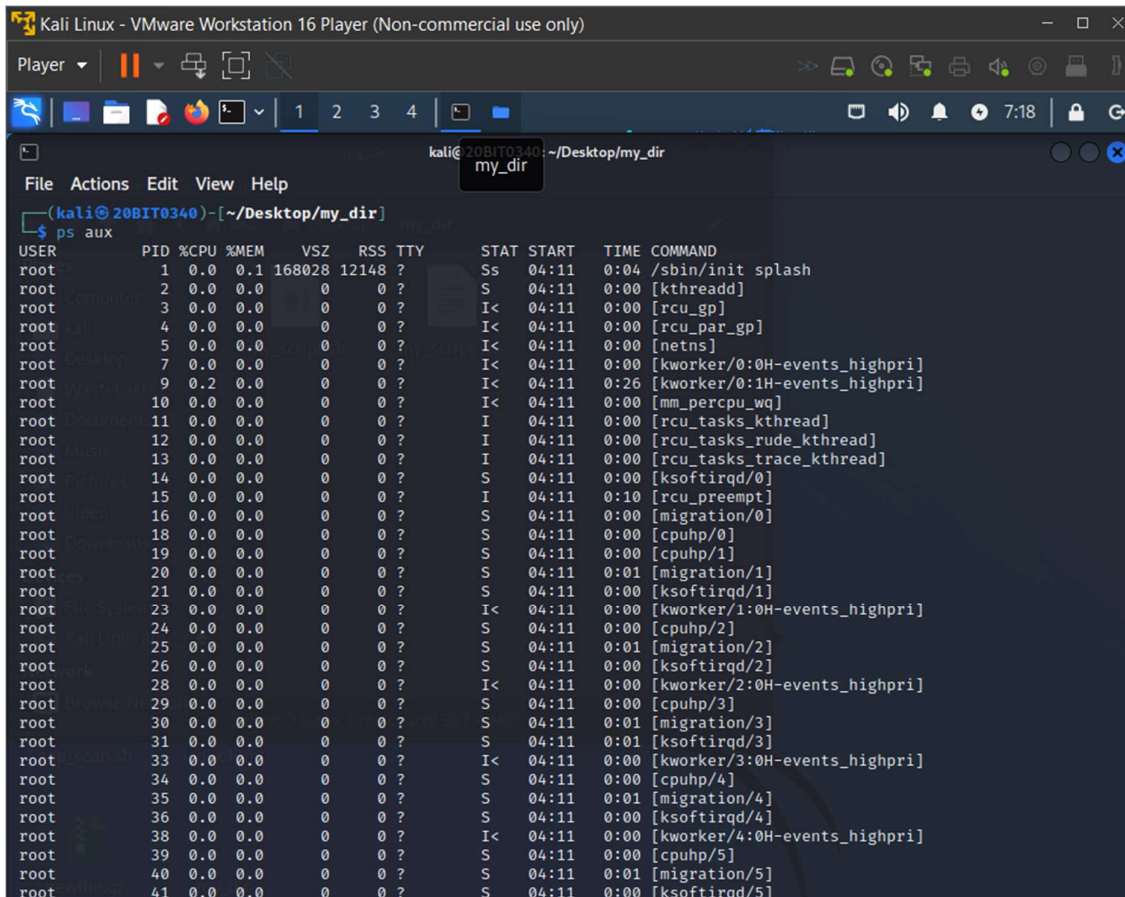
(kali@20BIT0340) [~/Desktop/my_dir]
$ chmod +x my_script.sh

(kali@20BIT0340) [~/Desktop/my_dir]
$ ./my_script.sh
Welcome to my script
today's date s Mon 29 May 07:17:17 IST 2023

(kali@20BIT0340) [~/Desktop/my_dir]
$

```

Task 3: Command Execution and Pipelines



```

Kali Linux - VMware Workstation 16 Player (Non-commercial use only)

Player | [Icons] | 1 2 3 4 | [Icons] | 7:18 | [Icons]

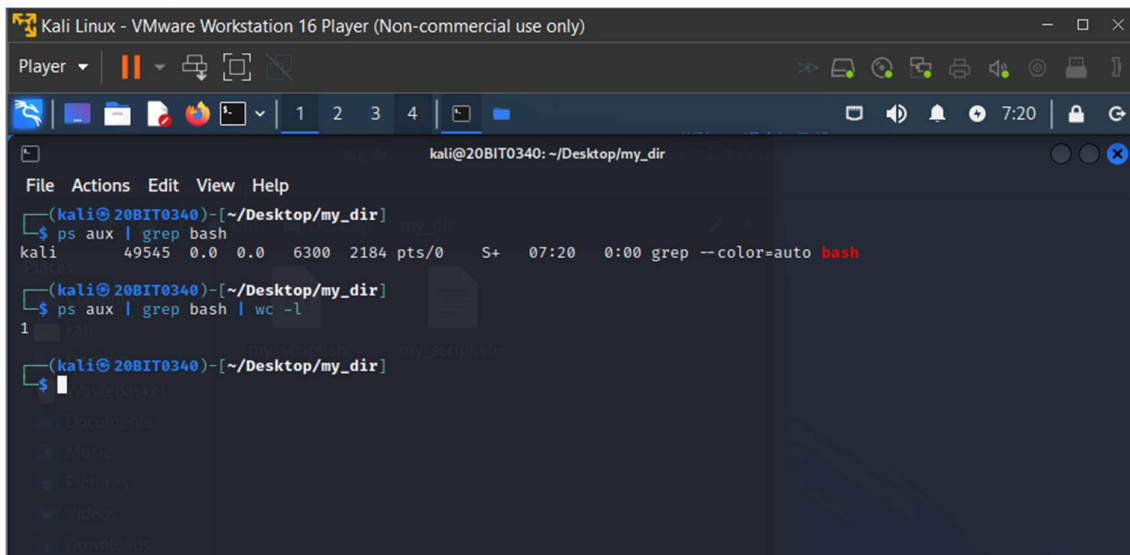
kali@20BIT0340: ~/Desktop/my_dir
my_dir

File Actions Edit View Help

(kali@20BIT0340) [~/Desktop/my_dir]
$ ps aux

```

USER	PID	%CPU	%MEM	VSZ	RSS	TTY	STAT	START	TIME	COMMAND
root	1	0.0	0.1	168028	12148	?	Ss	04:11	0:04	/sbin/init splash
root	2	0.0	0.0	0	0	?	S	04:11	0:00	[kthreadd]
root	3	0.0	0.0	0	0	?	I<	04:11	0:00	[rcu_gp]
root	4	0.0	0.0	0	0	?	I<	04:11	0:00	[rcu_par_gp]
root	5	0.0	0.0	0	0	?	I<	04:11	0:00	[netns]
root	7	0.0	0.0	0	0	?	I<	04:11	0:00	[kworker/0:0H-events_highpri]
root	9	0.2	0.0	0	0	?	I<	04:11	0:26	[kworker/0:1H-events_highpri]
root	10	0.0	0.0	0	0	?	I<	04:11	0:00	[mm_percpu_wq]
root	11	0.0	0.0	0	0	?	I	04:11	0:00	[rcu_tasks_kthread]
root	12	0.0	0.0	0	0	?	I	04:11	0:00	[rcu_tasks_rude_kthread]
root	13	0.0	0.0	0	0	?	I	04:11	0:00	[rcu_tasks_trace_kthread]
root	14	0.0	0.0	0	0	?	S	04:11	0:00	[ksoftirqd/0]
root	15	0.0	0.0	0	0	?	I	04:11	0:10	[rcu_preempt]
root	16	0.0	0.0	0	0	?	S	04:11	0:00	[migration/0]
root	18	0.0	0.0	0	0	?	S	04:11	0:00	[cpuhp/0]
root	19	0.0	0.0	0	0	?	S	04:11	0:00	[cpuhp/1]
root	20	0.0	0.0	0	0	?	S	04:11	0:01	[migration/1]
root	21	0.0	0.0	0	0	?	S	04:11	0:00	[ksoftirqd/1]
root	23	0.0	0.0	0	0	?	I<	04:11	0:00	[kworker/1:0H-events_highpri]
root	24	0.0	0.0	0	0	?	S	04:11	0:00	[cpuhp/2]
root	25	0.0	0.0	0	0	?	S	04:11	0:01	[migration/2]
root	26	0.0	0.0	0	0	?	S	04:11	0:00	[ksoftirqd/2]
root	28	0.0	0.0	0	0	?	I<	04:11	0:00	[kworker/2:0H-events_highpri]
root	29	0.0	0.0	0	0	?	S	04:11	0:00	[cpuhp/3]
root	30	0.0	0.0	0	0	?	S	04:11	0:01	[migration/3]
root	31	0.0	0.0	0	0	?	S	04:11	0:01	[ksoftirqd/3]
root	33	0.0	0.0	0	0	?	I<	04:11	0:00	[kworker/3:0H-events_highpri]
root	34	0.0	0.0	0	0	?	S	04:11	0:00	[cpuhp/4]
root	35	0.0	0.0	0	0	?	S	04:11	0:01	[migration/4]
root	36	0.0	0.0	0	0	?	S	04:11	0:00	[ksoftirqd/4]
root	38	0.0	0.0	0	0	?	I<	04:11	0:00	[kworker/4:0H-events_highpri]
root	39	0.0	0.0	0	0	?	S	04:11	0:00	[cpuhp/5]
root	40	0.0	0.0	0	0	?	S	04:11	0:01	[migration/5]
root	41	0.0	0.0	0	0	?	S	04:11	0:00	[ksoftirqd/5]



```
Kali Linux - VMware Workstation 16 Player (Non-commercial use only)
Player
1 2 3 4
kali@20BIT0340: ~/Desktop/my_dir
File Actions Edit View Help
(kali@20BIT0340)-[~/Desktop/my_dir]
$ ps aux | grep bash
kali 49545 0.0 0.0 6300 2184 pts/0 S+ 07:20 0:00 grep --color=auto bash
(kali@20BIT0340)-[~/Desktop/my_dir]
$ ps aux | grep bash | wc -l
1
(kali@20BIT0340)-[~/Desktop/my_dir]
$
```