

## Task 5: Automated Security Auditing & Scripting

### 1.Setup:

Write a Bash script that

```
#!/bin/bash
```

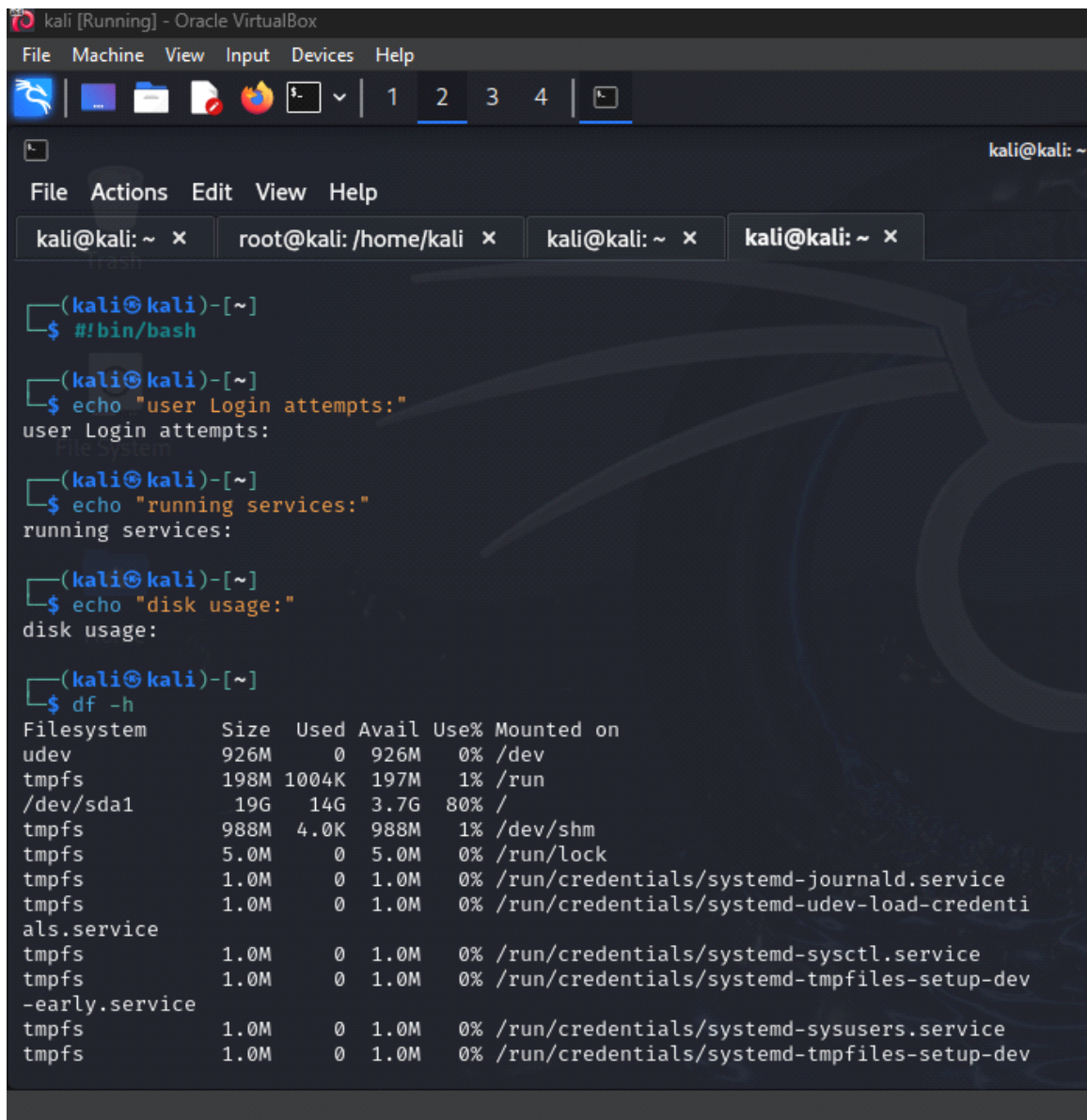
```
echo "User login attempts:"
```

```
echo "Running services:"
```

```
systemctl list-units --type=service
```

```
echo "Disk usage:"
```

```
df -h
```



```
kali [Running] - Oracle VirtualBox
File Machine View Input Devices Help
kali@kali: ~ x root@kali: /home/kali x kali@kali: ~ x kali@kali: ~ x

(kali@kali)-[~]
$ #!/bin/bash

(kali@kali)-[~]
$ echo "user Login attempts:"
user Login attempts:

(kali@kali)-[~]
$ echo "running services:"
running services:

(kali@kali)-[~]
$ echo "disk usage:"
disk usage:

(kali@kali)-[~]
$ df -h
Filesystem      Size  Used Avail Use% Mounted on
udev            926M   0    926M   0% /dev
tmpfs           198M 1004K   197M   1% /run
/dev/sda1       19G   14G   3.7G  80% /
tmpfs           988M   4.0K   988M   1% /dev/shm
tmpfs           5.0M   0    5.0M   0% /run/lock
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-journald.service
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-udev-load-credenti
als.service
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-sysctl.service
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-tmpfiles-setup-dev
-early.service
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-sysusers.service
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-tmpfiles-setup-dev
```

```
kali [Running] - Oracle VirtualBox
File Machine View Input Devices Help
kali@kali: ~ x root@kali: /home/kali x kali@kali: ~ x kali@kali: ~ x
disk usage:
(kali@kali)-[~]
$ df -h
Filesystem      Size  Used Avail Use% Mounted on
udev            926M   0    926M   0% /dev
tmpfs           198M 1004K  197M   1% /run
/dev/sda1       19G   14G   3.7G  80% /
tmpfs           988M   4.0K  988M   1% /dev/shm
tmpfs           5.0M   0    5.0M   0% /run/lock
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-journald.service
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-udev-load-credenti
als.service
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-sysctl.service
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-tmpfiles-setup-dev
-early.service
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-sysusers.service
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-tmpfiles-setup-dev
.service
tmpfs           988M  140K  988M   1% /tmp
tmpfs           1.0M   0    1.0M   0% /run/credentials/systemd-tmpfiles-setup.ser
vice
tmpfs           1.0M   0    1.0M   0% /run/credentials/getty@tty1.service
tmpfs           198M  124K  198M   1% /run/user/1000

(kali@kali)-[~]
$ echo "disk usage:"
disk usage:

(kali@kali)-[~]
$
```

Open the nano text editor and create a new file

```
kali [Running] - Oracle VirtualBox
File Machine View Input Devices Help
kali@kali: ~ x root@kal...ome/kali x kali...i: ~ x kali...i: ~ x kali...i: ~ x
(kali@kali)-[~]
$ nano security_audit.sh
```