Knowledge check 1

1. [cal 2023]
2. [free -h]
3. [ls /home/elliot]
4. [passwd]
5. echo "Mr.Robot is an awesome TV show!"

True or false

1. False
2. False
3. True
4. False
5. True

Knowledge check 2

1. [ls -l /var/log]
2. [cat /etc/hostname]
3. [touch file1 file2 file3]
4. [ls -a /home/elliot]
5. [mkdir /home/elliot/fsociety]

True or false

1. False
2. False
3. True
4. False
5. True

Knowledge check 3

1. [head -n 2 facts.txt]
2. [tail -n 1 facts.txt]
3. [tac facts.txt]
4. [vi facts.txt]
5. [:q]

Knowledge check 4

1. [touch hacker1 hacker2 hacker3]
2. [mkdir Linux Windows Mac]
3. [touch Linux/cool]
4. [touch Windows/boring]
5. [touch Mac/expensive]
6. [cp hacker1 hacker2 /tmp]
7. [cp -r Windows Mac/tmp]
8. [mv hacker3 /tmp]
9. [mv Linux /tmp]
10. [rm Mac/expensive]

11. [rmdir Mac]
12. [rm -r Windows]
13. [rm hacker2]
14. [mv hacker1 hacker01]

True or false

1. False
2. False
3. True
4. False
5. True

Knowledge check 5

1. [type echo]
2. [which uptime]
3. [whatis mkdir]
4. [man mv]
5. [apropos calendar]
6. [help history]

True or false

1. False
2. False
3. True
4. True

Knowledge check 6

1. [ls -id /var/log]
2. [stat /boot]
3. [mkdir coins]
4. [ln -s coins currency]
5. [touch coins/silver coins/gold]
6. [touch currency/bronze]
7. [ls coins currency]

```
<!-- -->
```

8. [ln beverages drinks]
9. [rm beverages]
10. [cat drinks]

True or false

1. False
2. True
3. True
4. False
5. True
6. False

7. True

Knowledge check 7

1. [su root]
2. [passwd root]
3. [su - elliot]
4. [su]

True or false

1. True
2. True
3. False

Knowledge check 8

1. [useradd -u 333 abraham]
2. [groupadd admins]
3. [usermod -aG admins abraham]
4. [chgrp admins /home/abraham]
5. [chmod g=r /home/abraham]

True or false

1. True
2. False
3. False

Knowledge check 9

1. [head -n 5 facts.txt | tail -n 1]
2. [free > system.txt]
3. [lscpu >> system.txt]
4. [rmdir /var 2> error.txt]

Knowledge check 10

1. [du -b /etc/hostname]
2. [cut -d: -f1 /etc/group]
3. [wc -l /etc/services]
4. [grep bash /etc/passwd]
5. [uptime | tr [:lower:] [:upper:]]

Knowledge check 11

1. [locate boot.log]
2. [find / -size +50M]
3. [find / -size +70M -size -100M]
4. [find / -user smurf]
5. [find / -group developers]

Knowledge check 12

1. [apt-get install tmux]
2. [apt-cache depends vim]
3. [apt-get install cowsay]
4. [apt-get purge cowsay]
5. [apt-get update then run apt-get upgrade]

Knowledge check 13

1. [pgrep terminal]
2. [ps -fp pid_of_terminal]
3. [kill -9 pid_of_terminal]
4. [firefox &]
5. [renice -n -20 pid_of_firefox]

Knowledge check 14

1. [smurf ALL=(ALL) /sbin/fdisk]
2. [%developers ALL=(ALL) /usr/bin/apt-get]
3. [sudo -lU smurf]

Knowledge check 15

1. [hostnamectl set-hostname darkarmy]
2. [netstat -rn or ip route]
3. [traceroute www.ubuntu.com]
4. [cat /etc/resolv.conf]
5. [nslookup www.distrowatch.com]
6. [ifconfig eth0 down]
7. [ifconfig eth0 up]

Knowledge check 16

1.
```
#!/bin/bash
 cal
```

```
<!-- -->
```

2.
```
#!/bin/bash
 cal $1
```

```
<!-- -->
```

3.
```
#!/bin/bash
 for i in {2000..2020}; do
```

```
        cal $i
done
```

Knowledge check 17

1. [*/10 * * * * echo "10 minutes have passed!" >> /root/minutes.txt]
2. [0 1 25 12 * echo "Merry Christmas!" >> /root/holidays.txt]

Knowledge check 18

1. [tar -cvf /root/var.tar.gz /var]
2. [tar -jvf /root/tmp.tar.bz2 /tmp]
3. [tar -Jvf /root/etc.tar.xz /etc]

Knowledge check 19

1. [alias ins="apt-get install"]

2. [alias packages="dpkg -l"]

3. Add the line
   [alias clean="rm -r /tmp/*"]\

   to the end of the [.bashrc] file.

Knowledge check 20

1. Go to the [Virtual Machine Settings] > [Storage] > [Create a new Disk].
2. [fdisk /dev/sdc]
3. [pvcreate /dev/sdc1 /dev/sdc2 /dev/sdc3]
4. [vgcreate bigvg /dev/sdc1 /dev/sdc2 /dev/sdc3]
5. [lvcreate -n **biglv** -L 500M **bigvg**]
6. [mkfs -t **ext4** /dev/mapper/bigvg-biglv]
7. [mount **/dev/mapper/bigvg-biglv** /mnt/wikileaks]