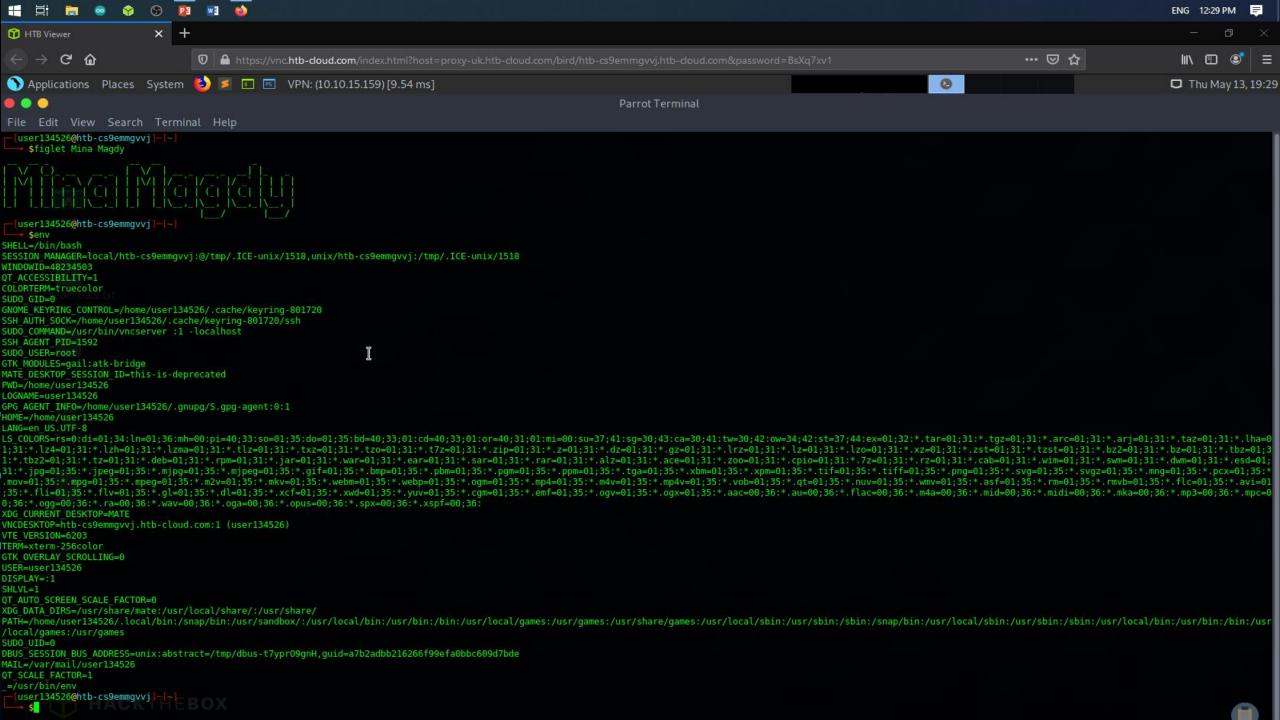


<Linux Environment> <env>

Linux Environment >>> Variables

Ex1
$$a = 1$$
 Ex2 $b = 2$ print $(a+b) = 3$

- All In memory "Ram"
- U Can Access To all With shell "Terminal"
- Let's Try with "Is"
- Try "which whoami"
- echo \$PATH



<Part 1>

LINUX UPDATEING

- 1. sudo apt update | Connect with Linux servers & show update
- 2. sudo apt upgrade | Switch the old bundle to the new one
- 3. sudo apt full-upgrade | upgradeing Thems & GUI & Icons
- 4. sudo apt apt update | sudo apt full-upgrade 1&2
- 5. sudo apt autoremove | Deletion of old files after updating
- 6. sudo apt search | earching for a specific package inside the Linux repositories

FILES & NAVIGATING

```
1. ls | List Files
```

- 2. ls -l
- 3. Is -al
- 4. cd | To move between files | Change Directory
- 5. cd DIR NAME
- 6. cd ..

<Part 2>

FILES & NAVIGATING

- 1. pwd | print word directory
- 2. mkdir NEW FILE NAME | make directory
- 3. rm dir FILE NAME | delete file
- 4. rm -f | fore delete
- 5. rm -rf | delete directory file
- 6. manually Options
- 7. man Is

<Part 2>

FILES & NAVIGATING

- 1. tail | show top 10 lines
- 2. WC | 18 18 94 M3LOMAT.TXT

<GREP>

gerp, egrep, fgrep, rgrep - print lines that match

- cat M3LOMAT.TXT | grep "WORD"
- 2. man grep

<Part 2>

FILES & NAVIGATING

- 1. cp | copy
- 2. cp FILE1 To FILE2
- 3. mv | move
- 4. mv FILE1 To FILE2 | To Move Files
- 5. mv FILE1 To FILEE | To Rename File
- 6. touch | Create New text File
- 7. cat | To open Text File

<Part 3>

NETWORKING

- 1. ping HOST | ping host
- 2. whois DNS | get whois for domain
- 3. dig DNS | get DNS for domain
- 4. dig -x HOST | reserve lookup host
- 4. wget FILE | download file
- 5. wget -r URL | download file from url

<Part 4>

PROCESSES

- 1. ps
- 2. ps aux
- 3. PID
- 4. kill PID
- 5. Kill all proc
- 6. htop & top >> sudo apt install htop
- 7. tree >> sudo apt install tree

<Part 5>

SYSTEM INFO

- 1. date
- 2. uptime
- 3. whoami
- 4. cat /proc/cpuimfo
- 5. cat /proc/meminfo
- 6. free
- 7. du
- 8. du -sh
- 9. df
- 10. df -h

SYSTEM INFO

```
<uname>
```

- 1. uname
- 2. uname -a | show kernel Version
- 3. uname -n | kali
- 4. uname -s | Linux
- 5. uname -m | x86_64
- 6. uname -r | 5.9.0-kali-amd64
- 7. man uname | to show more options

<Part 7>

PERMISSIONS

|Permissions|

 Every file and directory in your UNIX/Linux system has following 3 permissions defined for all the 3 owners discussed above.

1. Read -r

2. Write -w

3. Execute -x

Basic Linux Commands | < Part 7>

PERMISSIONS

- $1 \cdot r = read permission$
- 2. w = write permission
- 3. x = execute permission
- **4.** = no permission

<Part 7>

PERMISSIONS

|Permissions|

1. chmod +rwx filename
to add permissions.

2. chmod -rwx directoryname to remove permissions.

3. chmod +x filename to allow executable permissions.

4. chmod -wx filename to take out write and executable permissions.

<Part 7>

PERMISSIONS

a

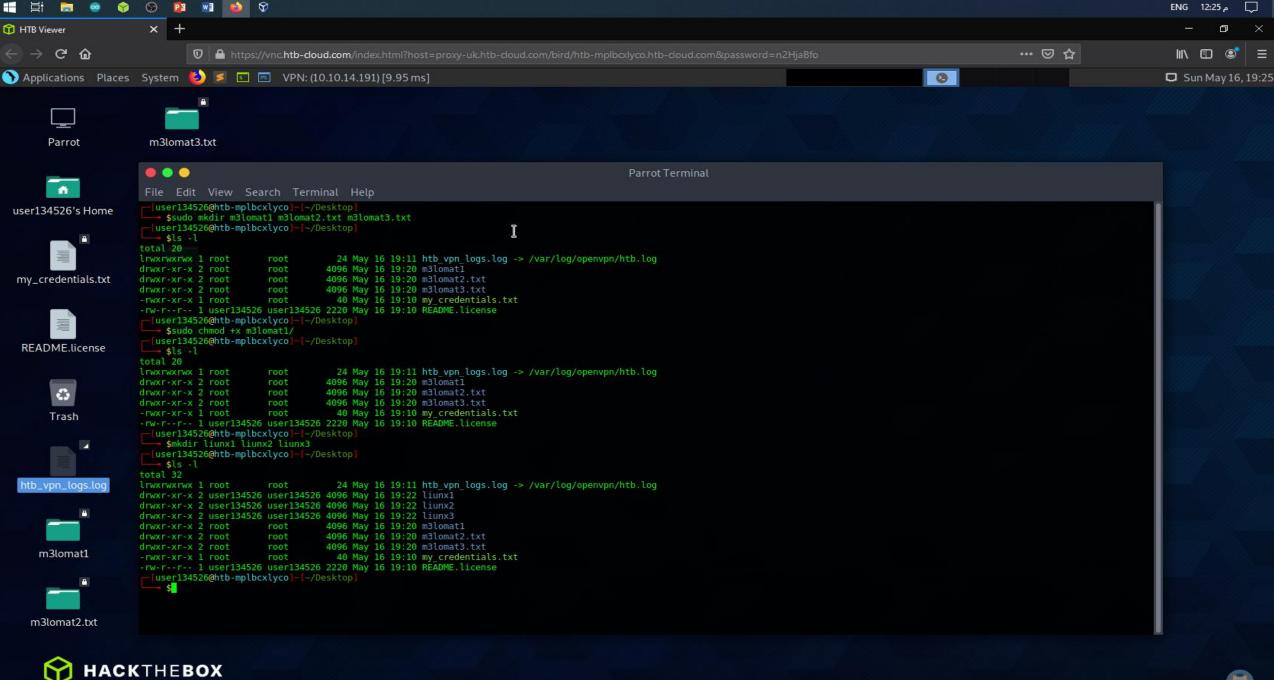
User Denotations

all

u user/ownerg groupo other

```
| Sls -l total 12 | drwxr-xr-x 2 root root 4096 May 16 19:53 m3lomat1 | drwxr-xr-x 2 root root 4096 May 16 19:53 m3lomat2 | drwxr-xr-x 2 root root 4096 May 16 19:53 m3lomat2
```

User Group Others







LIUNX SERVICES

<Part 8>

|apatche2|

- 1. sudo service apatche2 start | to start apatche service
- 2. sudo service apatche2 stop | to stop apatche service
- 3. sudo service apatche2 restart to restart apatche service
- 4. sudo service apatche2 statues | show apatche statues
- 5. To Downloading file http://192.168.1.5/m3lomat1.txt

<Part 8>

LIUNX SERVICES

|SSH|

- 1. ssh user@host | connect to host as user
- 2. ssh -p port user@host | connect using P
- 3. ssh -D user@host | connect & use bind P

Basic Linux Commands | < Part 8>

LIUNX SERVICES

|FTP|

- 1. ftp DNS.com | Domain Name System
- 1. ftp IP | Internet Protocol
- 2. ftp <u>USER@FTPDOMAIN.COM</u>

FILES MANAGE

- 1. cd DIR
- 2. Icd /home/user/urdirectoryname|DOWNLOADING FILES WITH FTP
- 3. get FILE | Download file

|Final Result|

- Linux "ENV"
- Part 1 | Linux Updating and differences on upgrading
- Part 2 | Files & Navigating
- Part 3 | Networking
- Part 4 | Process
- Part 5 | System info
- Part 7 | Permitions
- Part 8 | Linux Services

ASKING TIME ??

You can Ask Me ON?

Facebook: https://www.facebook.com/m3lomatthephone

My YouTube Chanel: https://www.youtube.com/c/m3lomatthephone

M3lomat the phone 2: https://www.youtube.com/channel/UCixopZbFBzdYKk2qsZLsRCA

M3lomat Electric: https://www.youtube.com/channel/UCGnXhX2E_MaGYOY8kyOowbQ

Instagram: https://instagram.com/mena.m.rushdy?igshid=1xg5sxvjtek7i

LinkedIn: https://www.linkedin.com/in/mina-magdy-38362b1b6/

Facebook Group: https://www.facebook.com/groups/391033085092937