# Certified Ethical Hacking With Penetration Testing CEHWPT

LABS Course

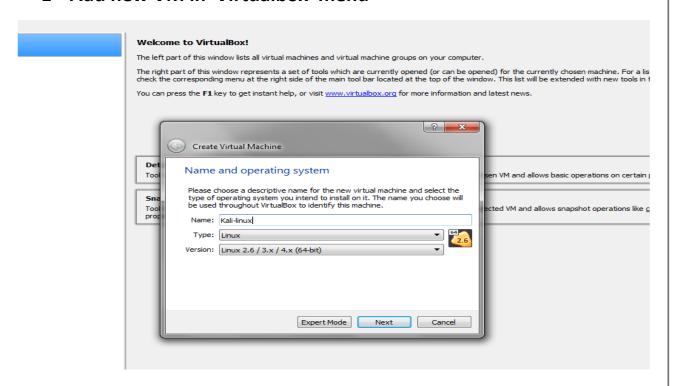
LAB1 Installing Kali Linux

Prepared by Eng. Khaled Gamo

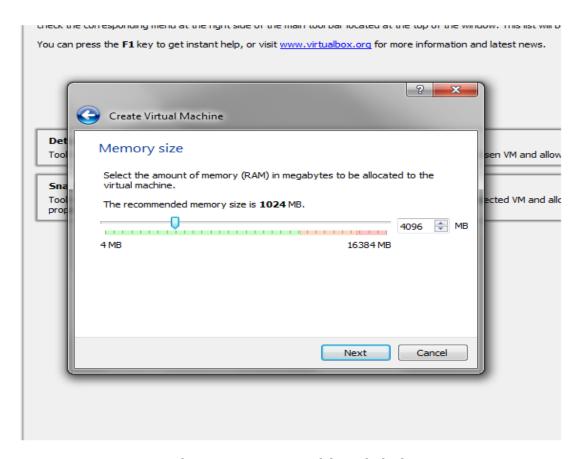
15-6-2019

#### **Lab 1 Installing Kali Linux**

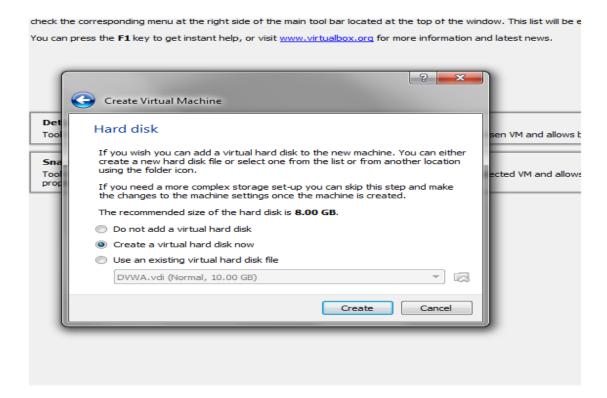
#### 1- Add new VM in Virtualbox menu



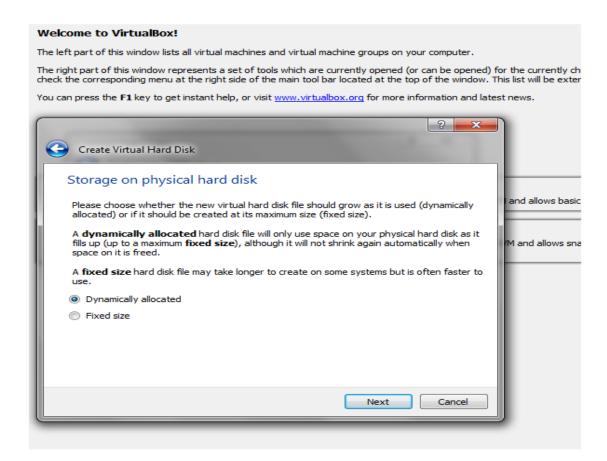
#### 2- Choose memory size



#### 3- Press next and create a virtual hard disk



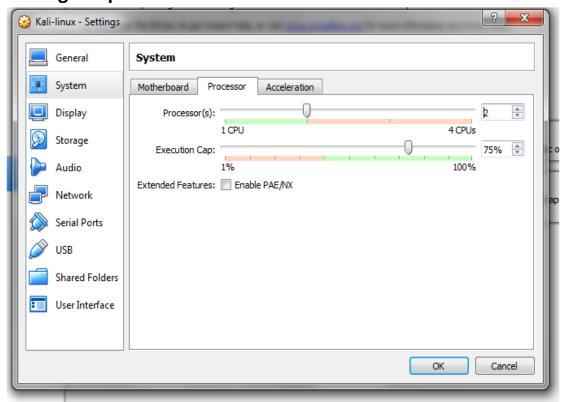
#### 4- Choose dynamic allocated



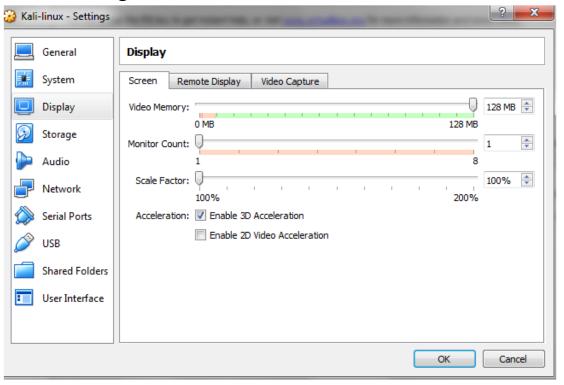
# 5- Change Disk size to 20 GB



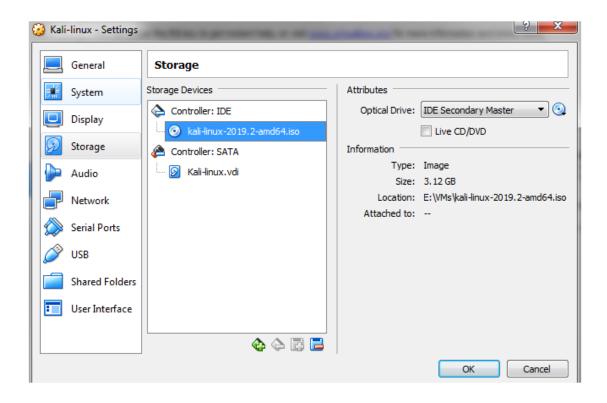
#### 6- Setting the process



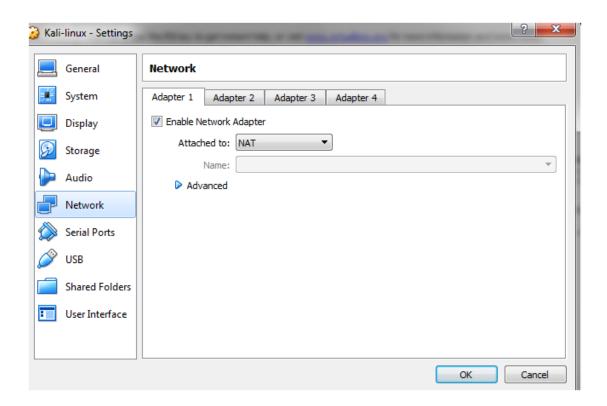
#### 7- Screen setting



### 8- Storage setting Choose the ISO image



#### 9- In network setting choose NAT



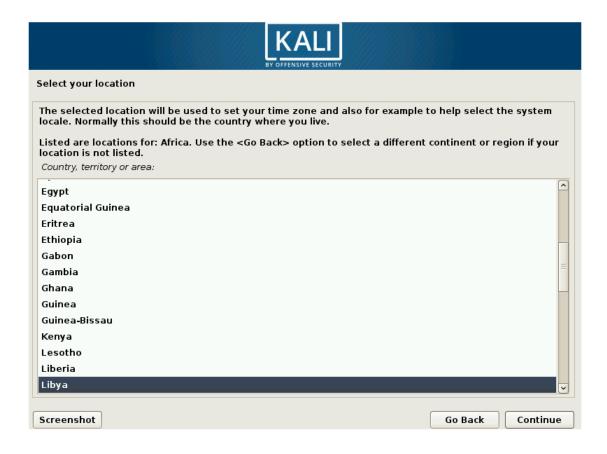
#### 10- startup the VM and choose Graphical install



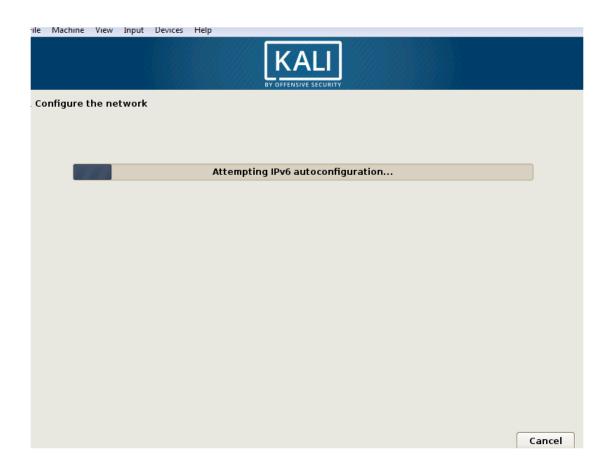
#### 11- Select language



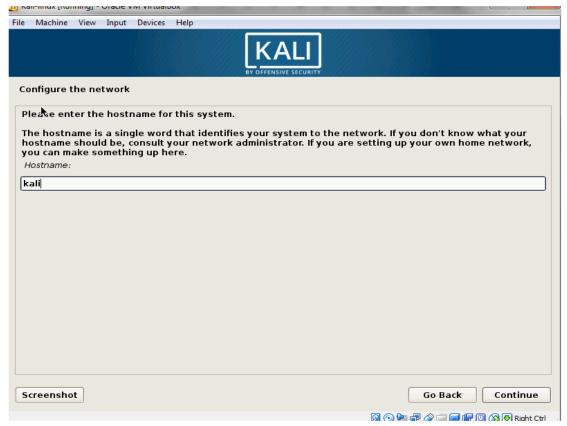
## 12- Select your location



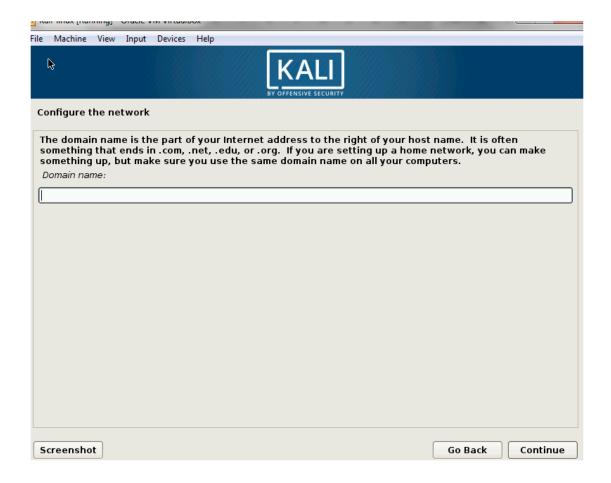
# 13- Start copying files



#### 14- Choose the name of the kali



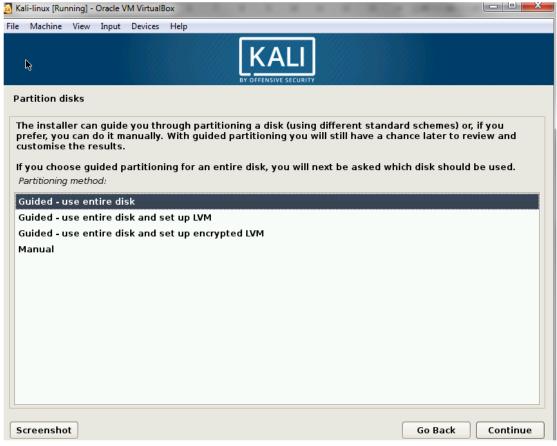
#### 15- We will keep the domain empty

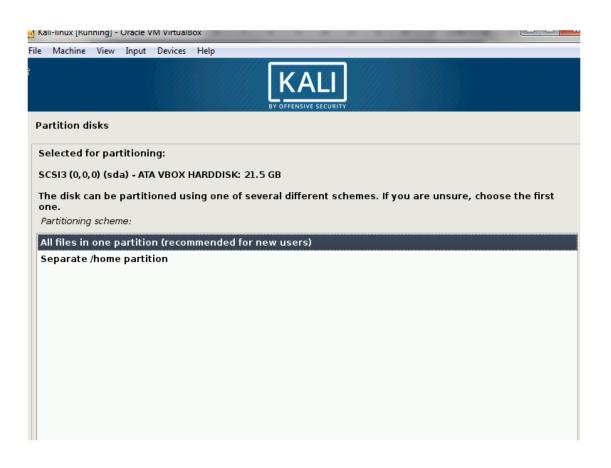


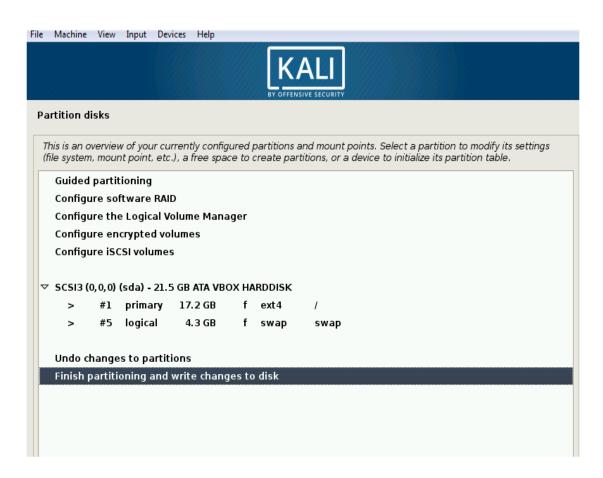
## 16- Setup the password



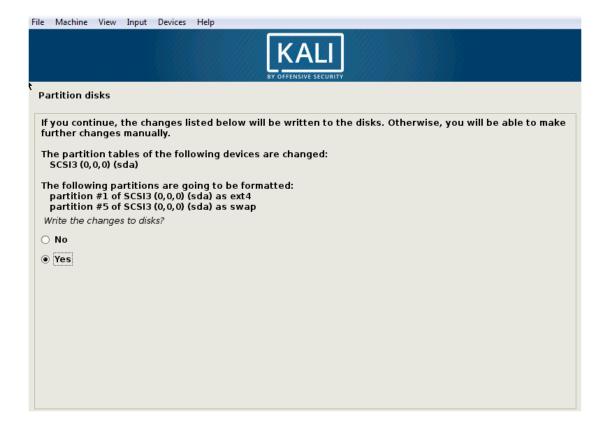
### 17- for disk partition we will choose use entire disk







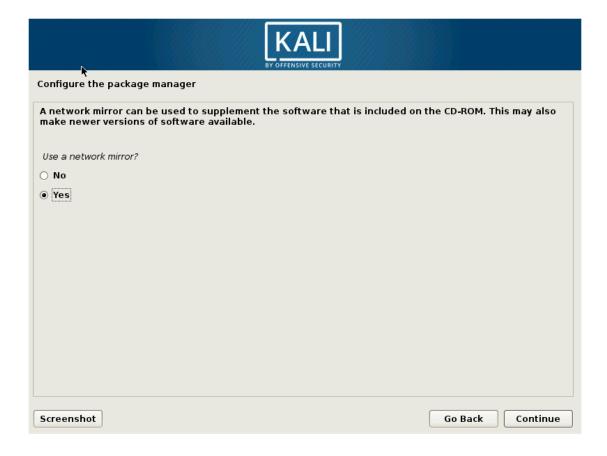
#### 18- writing to the disk



# 19- copying the data to the system



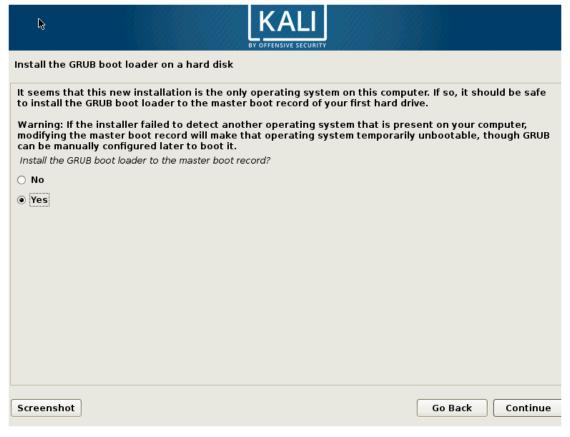
# 20- configure package manager

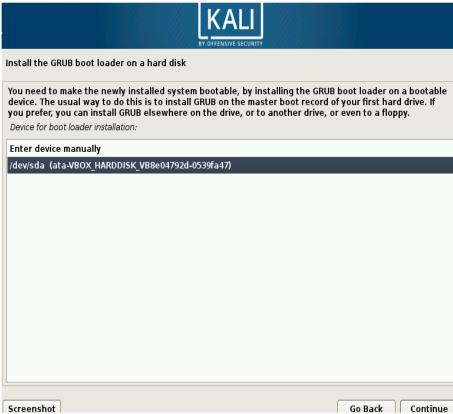


#### No proxy setting



#### 21- Installing GRUB loader



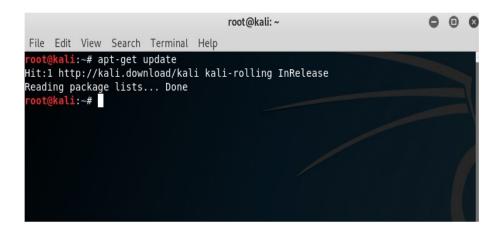






#### **LAB 2 Configuring Kali Linux**

1- Update package list using command apt-get update



2- Install Linux header using command apt-get install linux-headers-\$(uname-r) dkms

```
kali:~# apt-get install linux-headers-$(uname -r) dkms
Reading package lists... Done
Building dependency tree
Reading state information... Done
linux-headers-4.19.0-kali4-amd64 is already the newest version (4.19.28-2kali1)
Suggested packages:
  python3-apport
The following NEW packages will be installed:
0 upgraded, 1 newly installed, 0 to remove and 153 not upgraded.
Need to get 74.4 kB of archives.
After this operation, 285 kB of additional disk space will be used.
Do you want to continue? [Y/n] Y
Get:1 http://kali.download/kali kali-rolling/main amd64 dkms all 2.6.1-4 [74.4]
B]
Fetched 74.4 kB in 1s (51.3 kB/s)
Selecting previously unselected package dkms.
(Reading database ... 407035 files and directories currently installed.)
Preparing to unpack .../archives/dkms 2.6.1-4 all.deb ...
Unpacking dkms (2.6.1-4) ...
Setting up dkms (2.6.1-4) ...
Processing triggers for man-db (2.8.5-2)
```

3- Copying VBoxLinuxAdditions.run to tmp folder Cp /media/cdrom/VBoxLinuxAdditions.run /tmp

Run it from tmp directory

#### /tmp/VBoxLinuxAdditions.run

#### 4- Starting postgresql

Service postgresql start

```
File Edit View Search Terminal Help

root@kali:/# service postgresql start

root@kali:/#
```

# 5- Init metasploit database Msfdb init

```
root@kali:/# msfdb init
[i] Database already started
[+] Creating database user 'msf'
[+] Creating databases 'msf'
[+] Creating databases 'msf'
[+] Creating databases 'msf_test'
[+] Creating configuration file '/usr/share/metasploit-framework/config/database.yml'
[+] Creating initial database schema
root@kali:/#
```

# 6- Starting metasploit using Msfconsle

```
oot@kali:/# msfconsole
Unable to handle kernel NULL pointer dereference at virtual address 0xd34db33f
EFLAGS: 00010046
eax: 00000001 ebx: f77c8c00 ecx: 00000000 edx: f77f0001
esi: 803bf014 edi: 8023c755 ebp: 80237f84 esp: 80237f60
ds: 0018 es: 0018 ss: 0018
Process Swapper (Pid: 0, process nr: 0, stackpage=80377000)
Stack: 909090909909090909090909090
     909090909909090990909090
     90909090.90909090.90909090
     90909090.90909090.90909090
     90909090.90909090.09090900
     90909090.90909090.09090900
     ccccccccccccccccccc
     cccccccccccccccccccc
     ccccccc.....
     ccccccccccccccccccc
     ccccccccccccccccccccc
      .....cccccccc
     ccccccccccccccccccc
     cccccccccccccccccccc
     ffffffff.....
      fffffffffffffffffffffffffffff
      ffffffff.....
     ffffffff.....
     ffffffff....
ode: 00 00 00 00 M3 T4 SP L0 1T FR 4M 3W OR K! V3 R5 I0 N4 00 00 00 00
Aiee, Killing Interrupt handler
```

# 7- Check database status db status

```
msf5 > db_status
[*] Connected to msf. Connection type: postgresql.
msf5 >
```