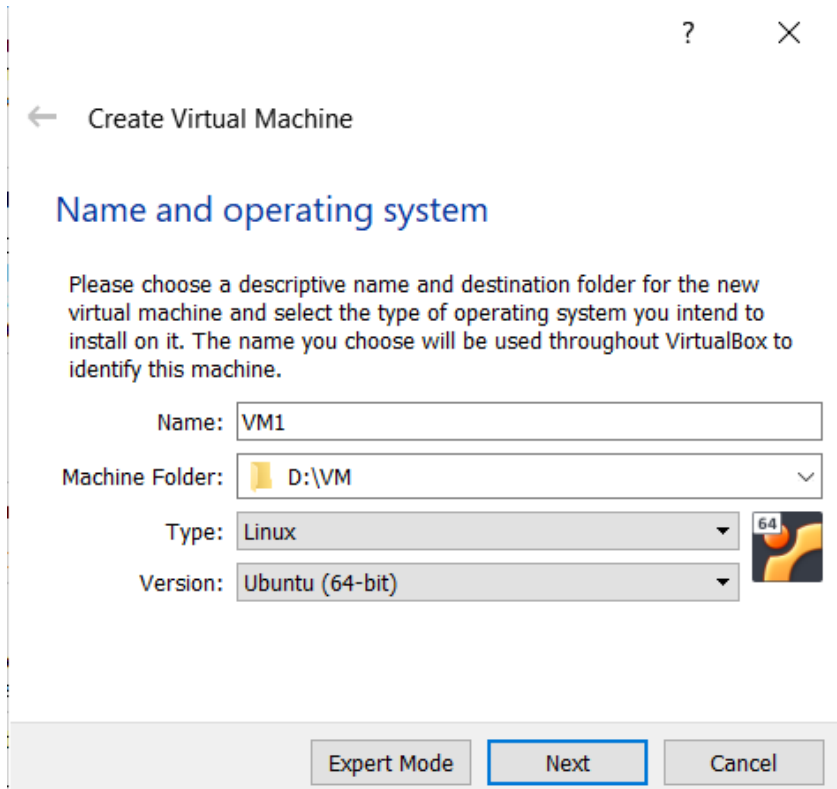


EX.No.1 Creation of Virtual Machine and Installing different flavours of Linux OS

1. INSTALLATION OF UBUNTU 16.04





← Create Virtual Machine


Name and operating system

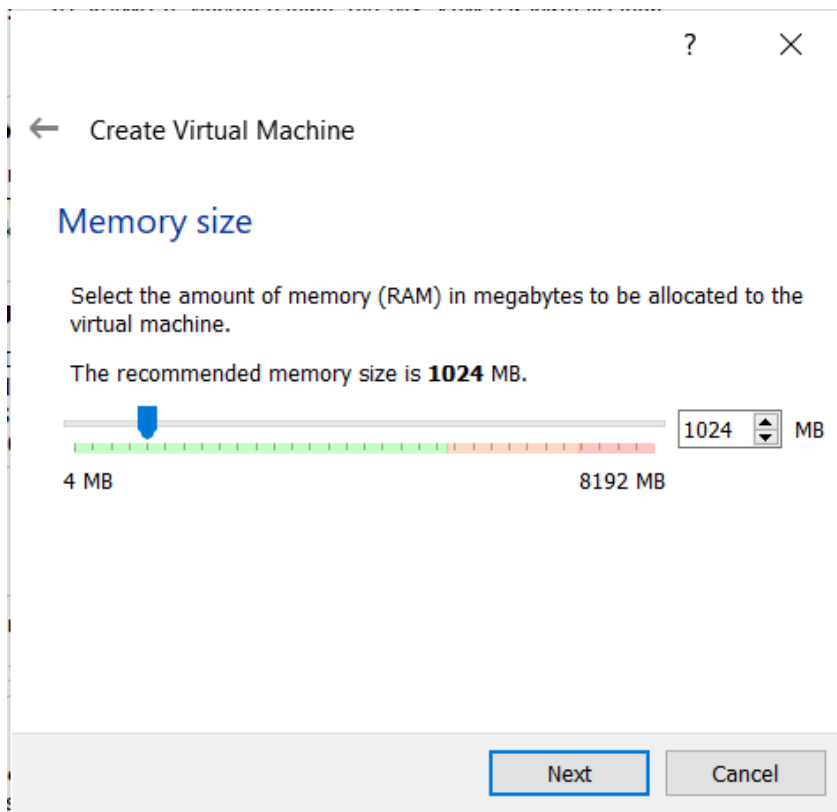
Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

Name:

Machine Folder: 

Type: 

Version: 




← Create Virtual Machine

Memory size

Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

The recommended memory size is **1024** MB.

 MB

4 MB 8192 MB

?

×

←

Create Virtual Machine

Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is **8.00 GB**.

☐ Do not add a virtual hard disk

☒ Create a virtual hard disk now

☐ Use an existing virtual hard disk file

VM1.vdi (Normal, 10.00 GB)

Create

Cancel

?

×

←

Create Virtual Hard Disk

Hard disk file type

Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.

☒ VDI (VirtualBox Disk Image)

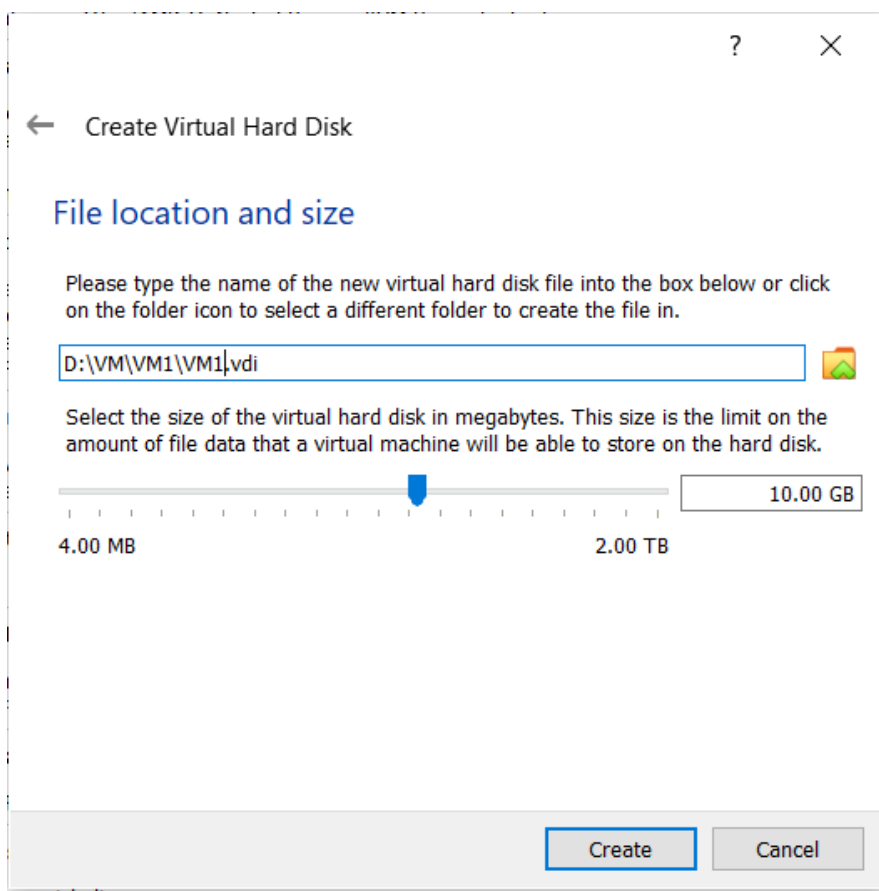
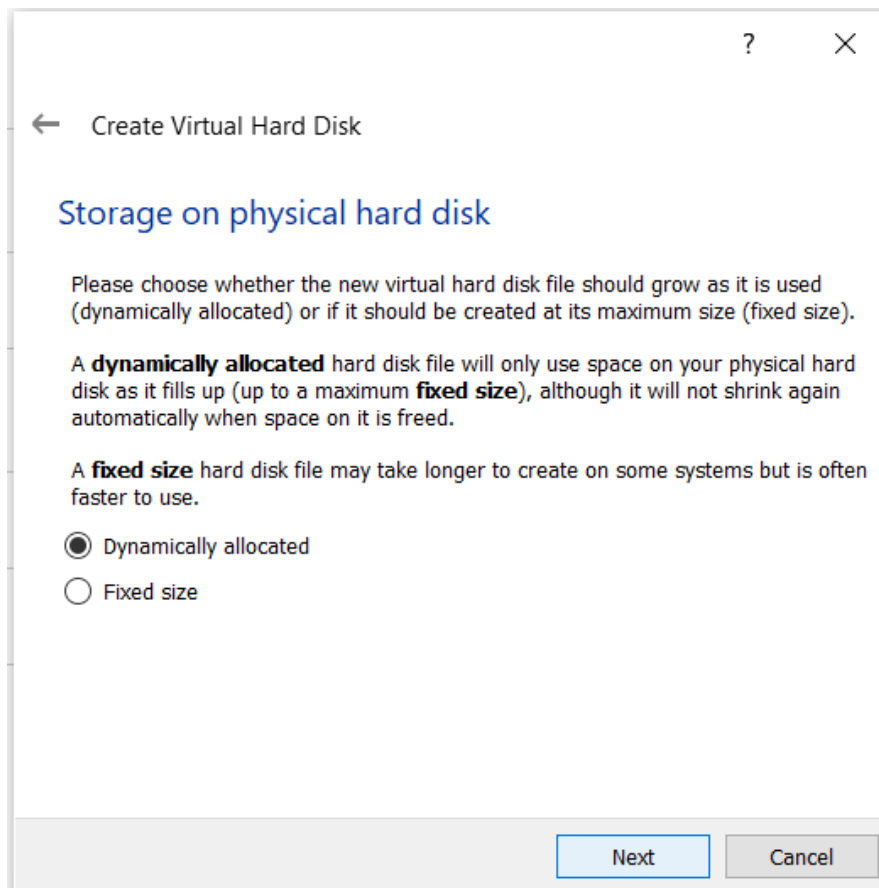
☐ VHD (Virtual Hard Disk)

☐ VMDK (Virtual Machine Disk)

Expert Mode

Next

Cancel



ifconfig command:

```
root@vaishali-VirtualBox: ~  
vaishali@vaishali-VirtualBox:~$ sudo -i  
[sudo] password for vaishali:  
root@vaishali-VirtualBox:~# ifconfig  
enp0s3      Link encap:Ethernet  HWaddr 08:00:27:5e:3c:58  
            inet addr:10.0.2.15  Bcast:10.0.2.255  Mask:255.255.255.0  
            inet6 addr: fe80::12a:3a23:3c0f:9b24/64 Scope:Link  
            UP BROADCAST RUNNING MULTICAST  MTU:1500  Metric:1  
            RX packets:45 errors:0 dropped:0 overruns:0 frame:0  
            TX packets:111 errors:0 dropped:0 overruns:0 carrier:0  
            collisions:0 txqueuelen:1000  
            RX bytes:9657 (9.6 KB)  TX bytes:11990 (11.9 KB)  
  
lo          Link encap:Local Loopback  
            inet addr:127.0.0.1  Mask:255.0.0.0  
            inet6 addr: ::1/128 Scope:Host  
            UP LOOPBACK RUNNING  MTU:65536  Metric:1  
            RX packets:52 errors:0 dropped:0 overruns:0 frame:0  
            TX packets:52 errors:0 dropped:0 overruns:0 carrier:0  
            collisions:0 txqueuelen:1000  
            RX bytes:4453 (4.4 KB)  TX bytes:4453 (4.4 KB)  
  
root@vaishali-VirtualBox:~# █
```

2. INSTALLATION OF KALI LINUX


? ×


← Create Virtual Machine

Name and operating system

Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

Name:

Machine Folder:  ▼

Type: ▼ 

Version: ▼

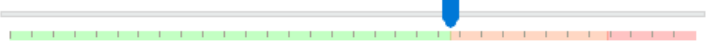
? ×

← Create Virtual Machine

Memory size

Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

The recommended memory size is **1024 MB**.

 MB

4 MB 8192 MB

← Create Virtual Machine

Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is **8.00 GB**.

- ☐ Do not add a virtual hard disk
- ☒ Create a virtual hard disk now
- ☐ Use an existing virtual hard disk file

VM1.vdi (Normal, 10.00 GB)



Create

Cancel

← Create Virtual Hard Disk

Hard disk file type

Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.

- ☒ VDI (VirtualBox Disk Image)
- ☐ VHD (Virtual Hard Disk)
- ☐ VMDK (Virtual Machine Disk)

Expert Mode

Next

Cancel

?

×

← Create Virtual Hard Disk

Storage on physical hard disk

Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).

A **dynamically allocated** hard disk file will only use space on your physical hard disk as it fills up (up to a maximum **fixed size**), although it will not shrink again automatically when space on it is freed.

A **fixed size** hard disk file may take longer to create on some systems but is often faster to use.

☒ Dynamically allocated

☐ Fixed size

Next

Cancel

?

×

← Create Virtual Hard Disk

File location and size

Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.

D:\VM\VM2\VM2.vdi

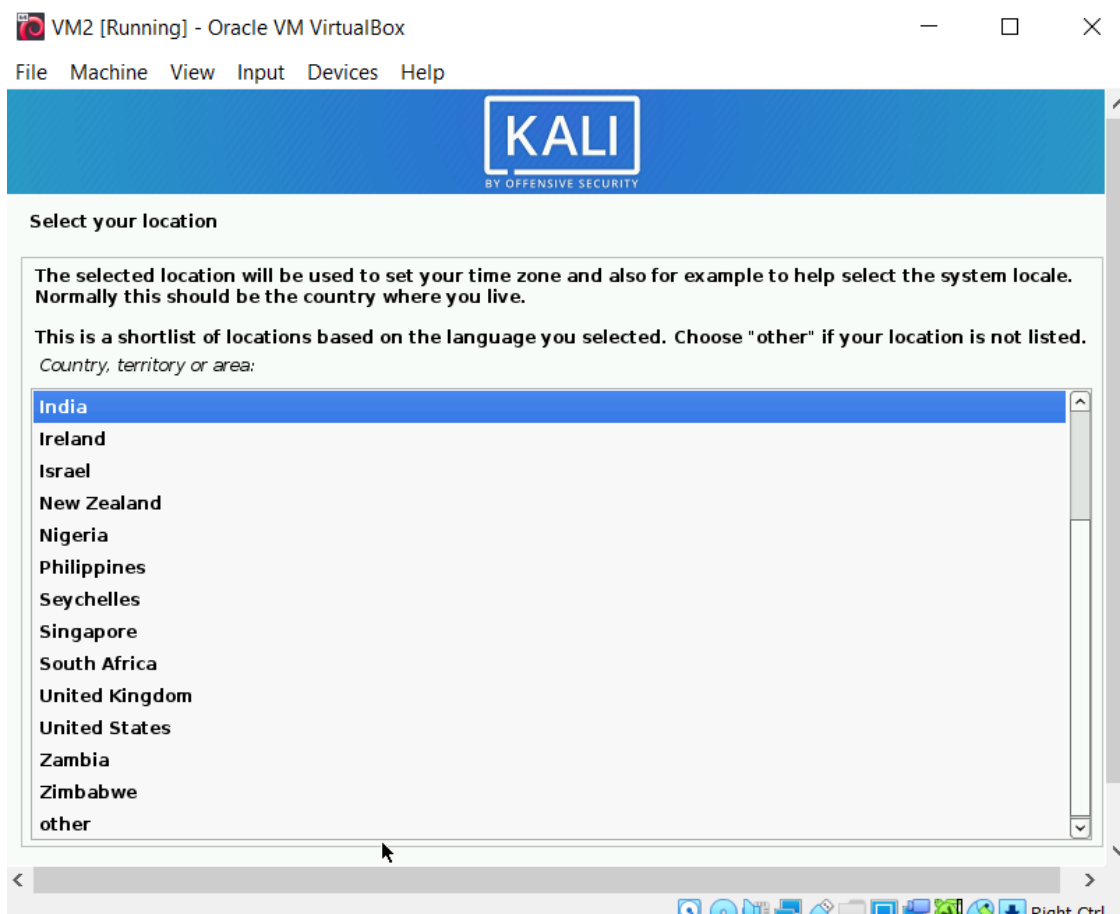
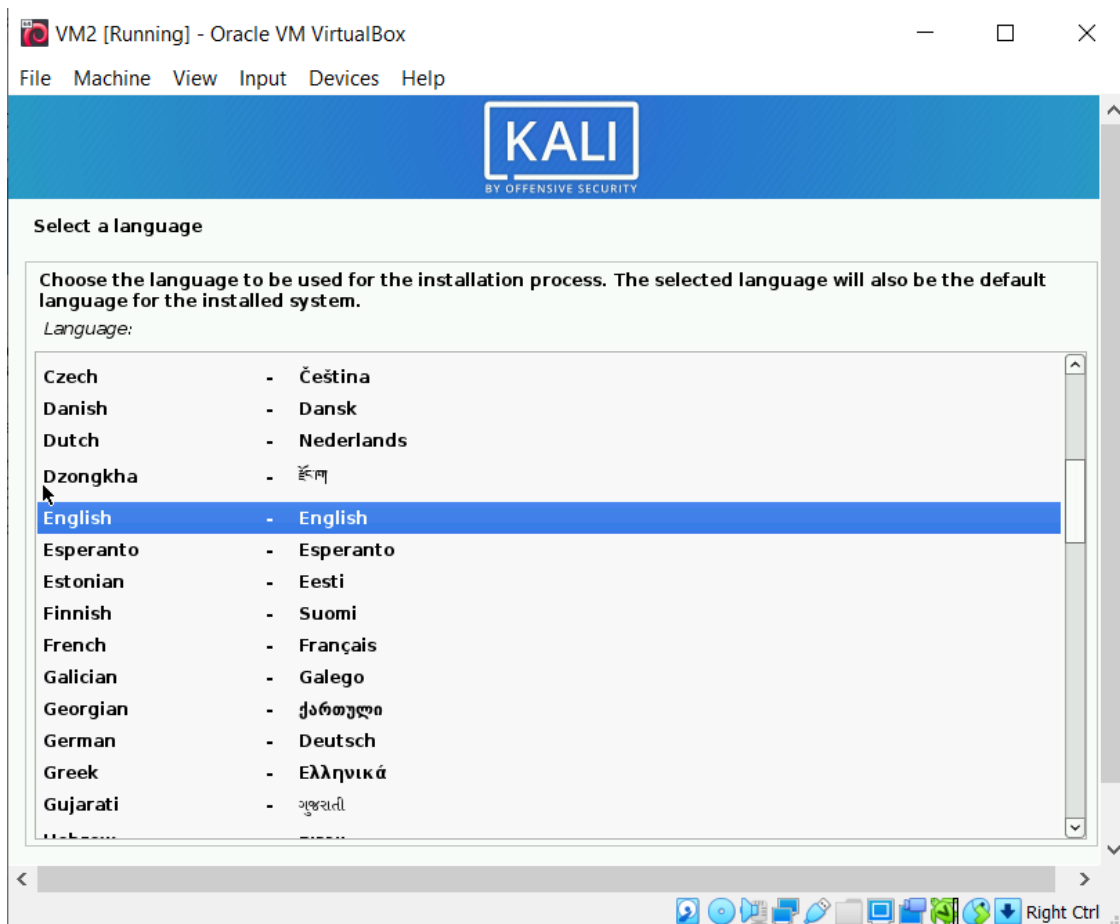
Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.

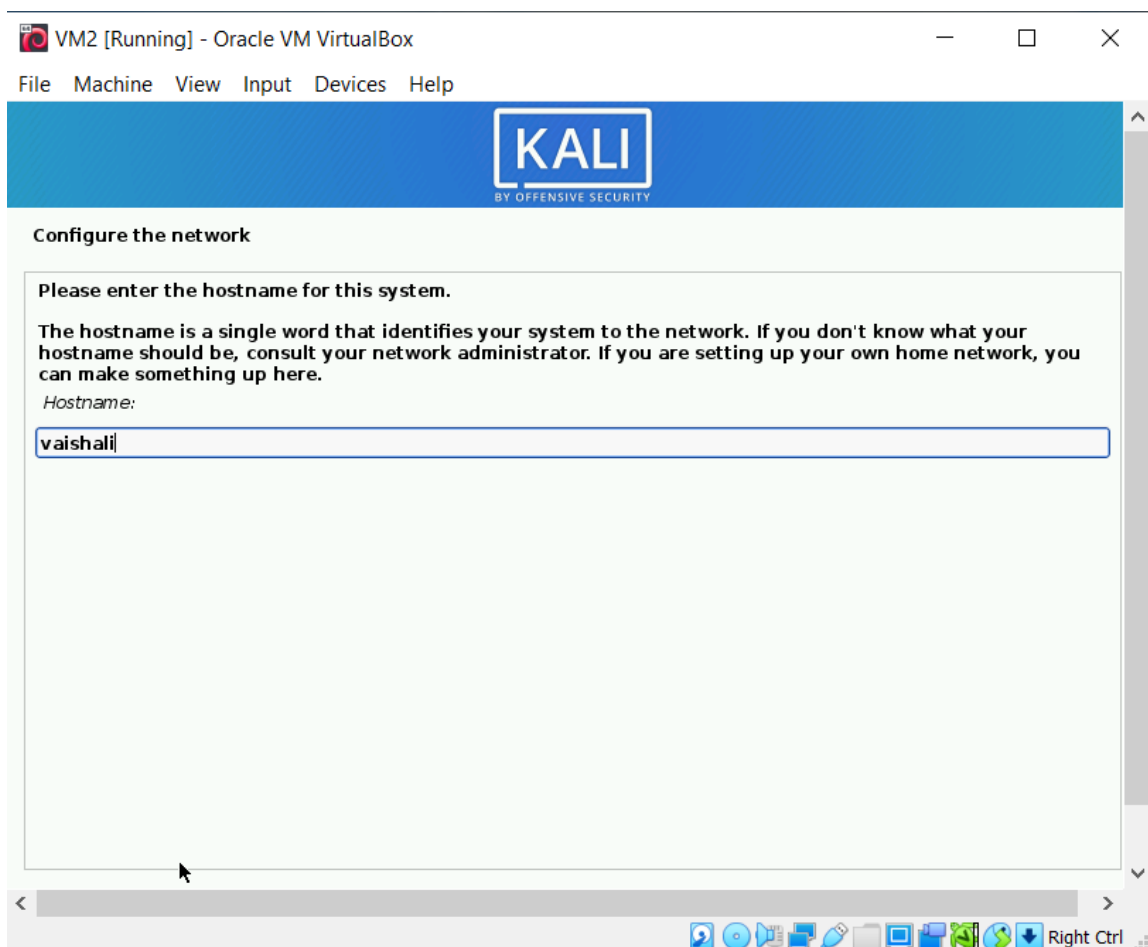
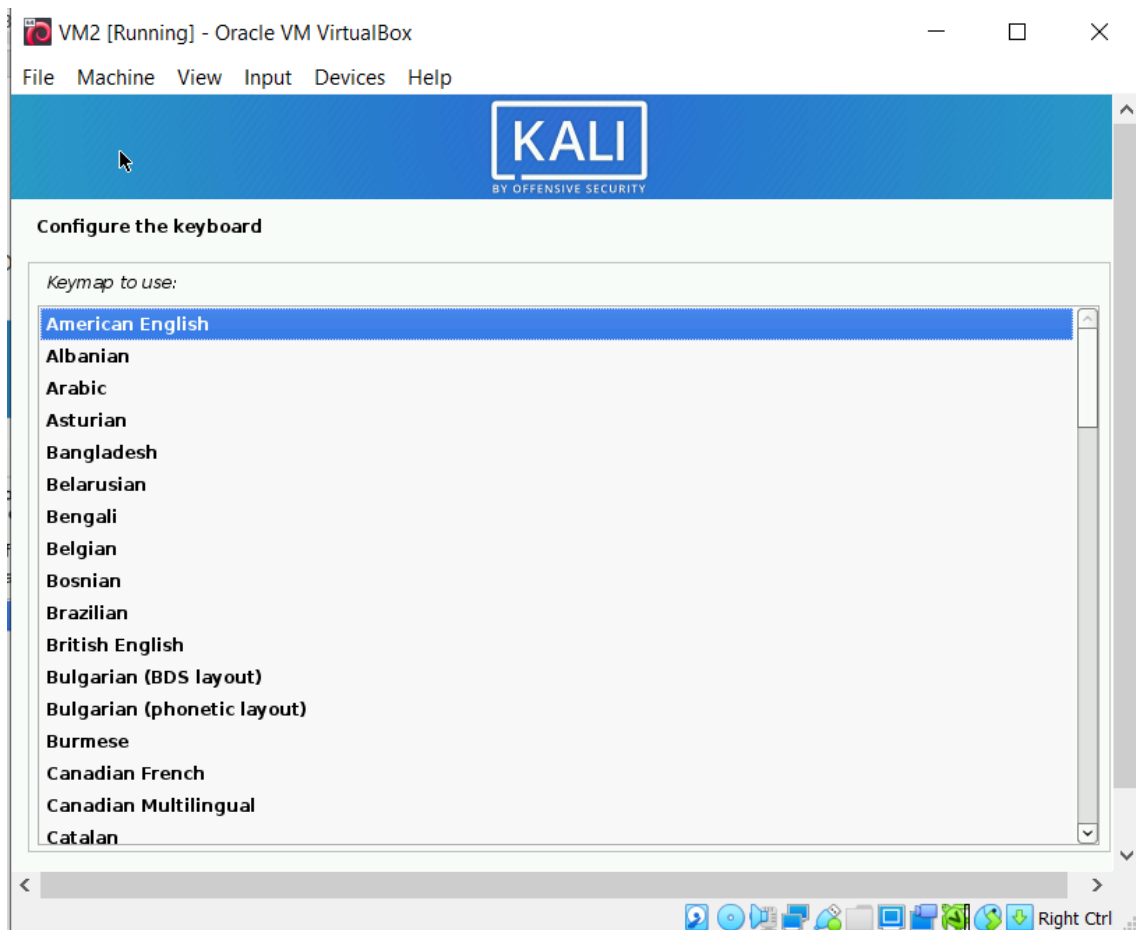
100.73 GB

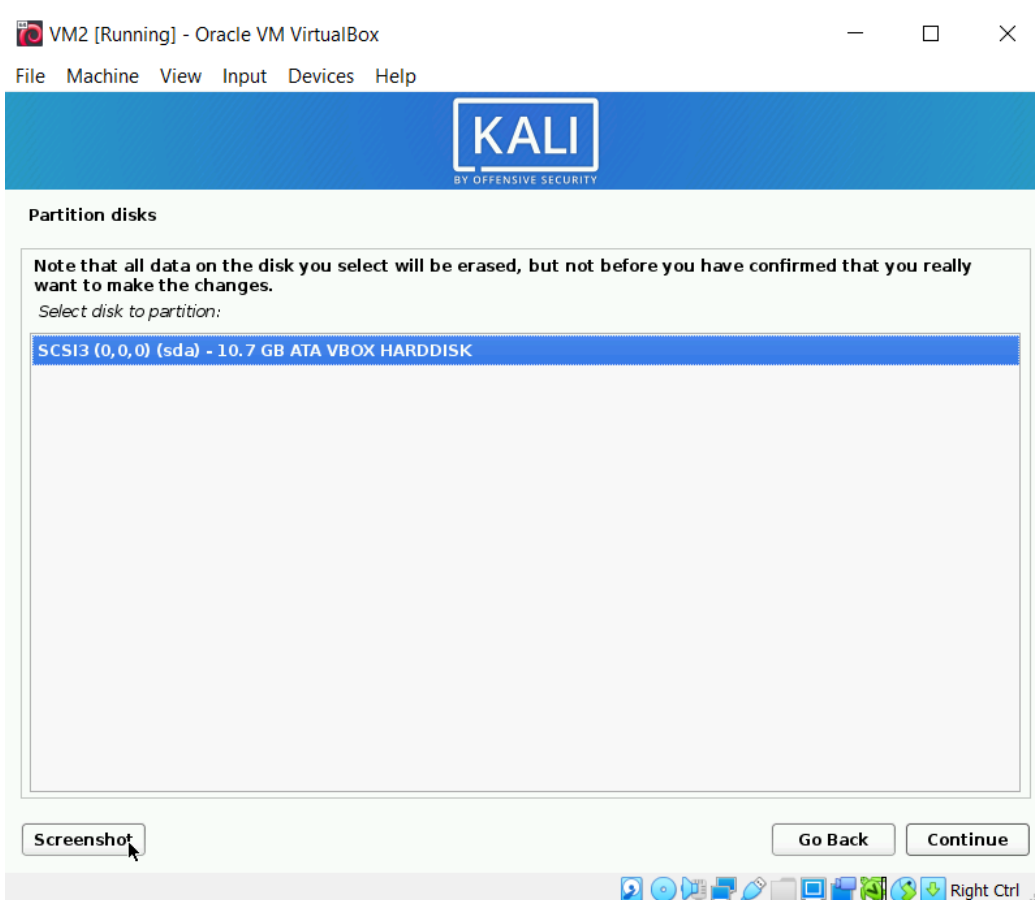
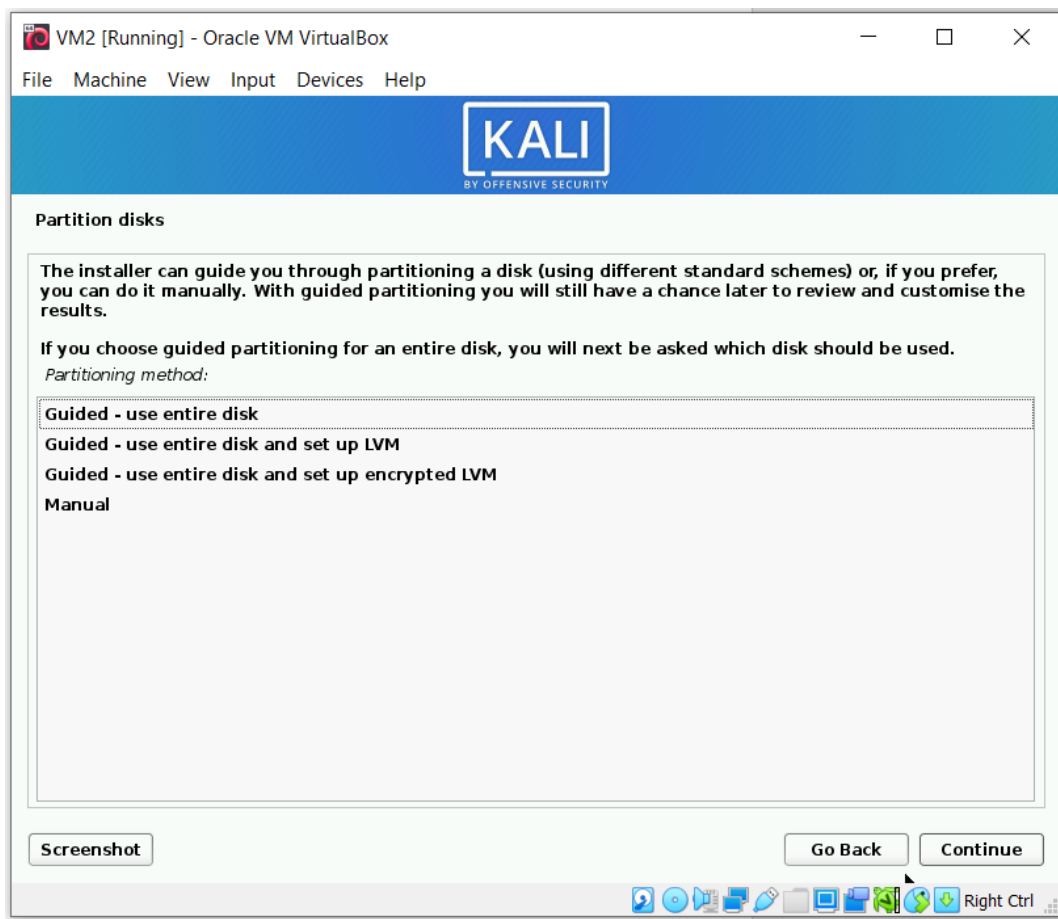
4.00 MB2.00 TB

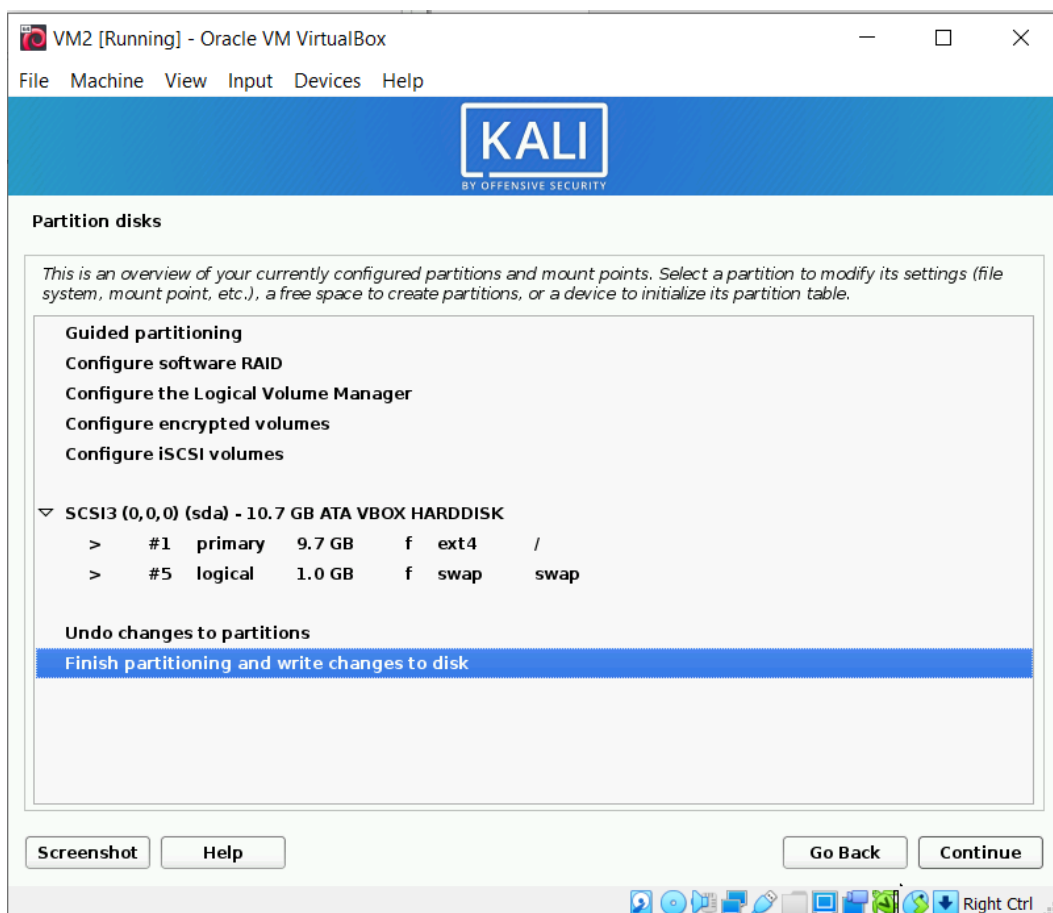
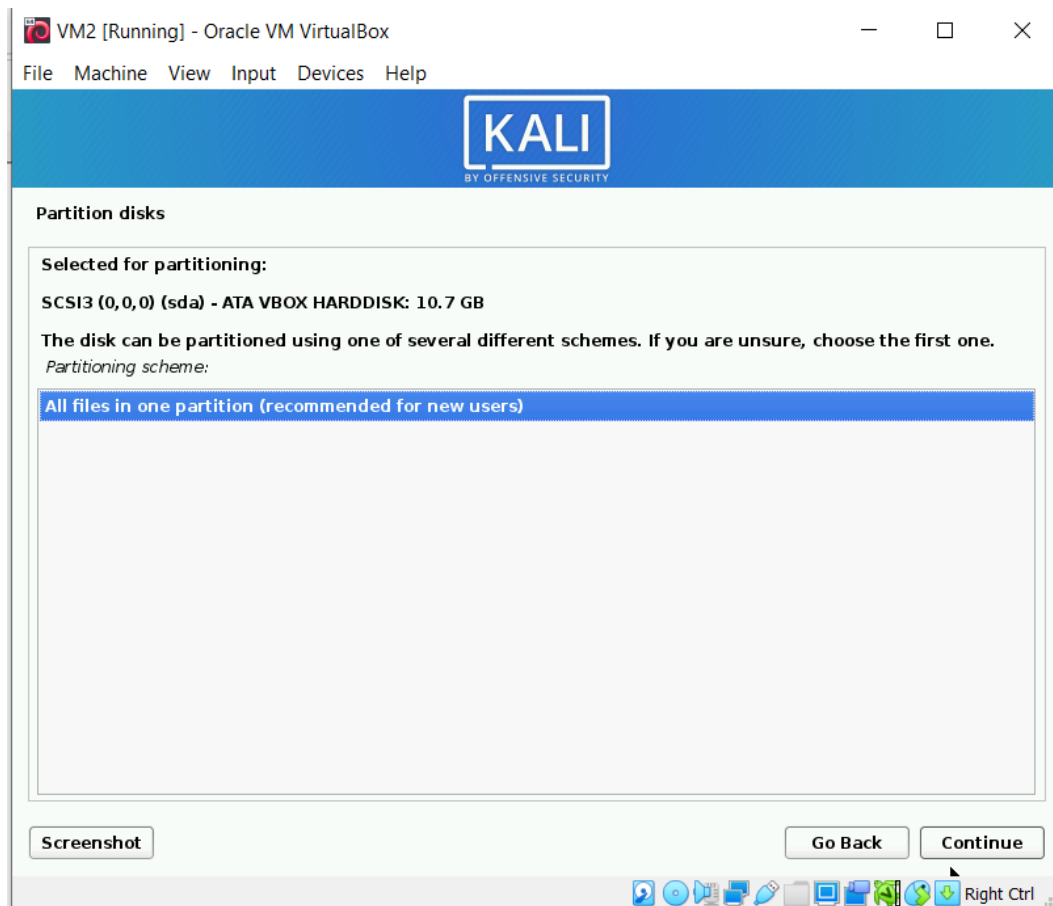
Create

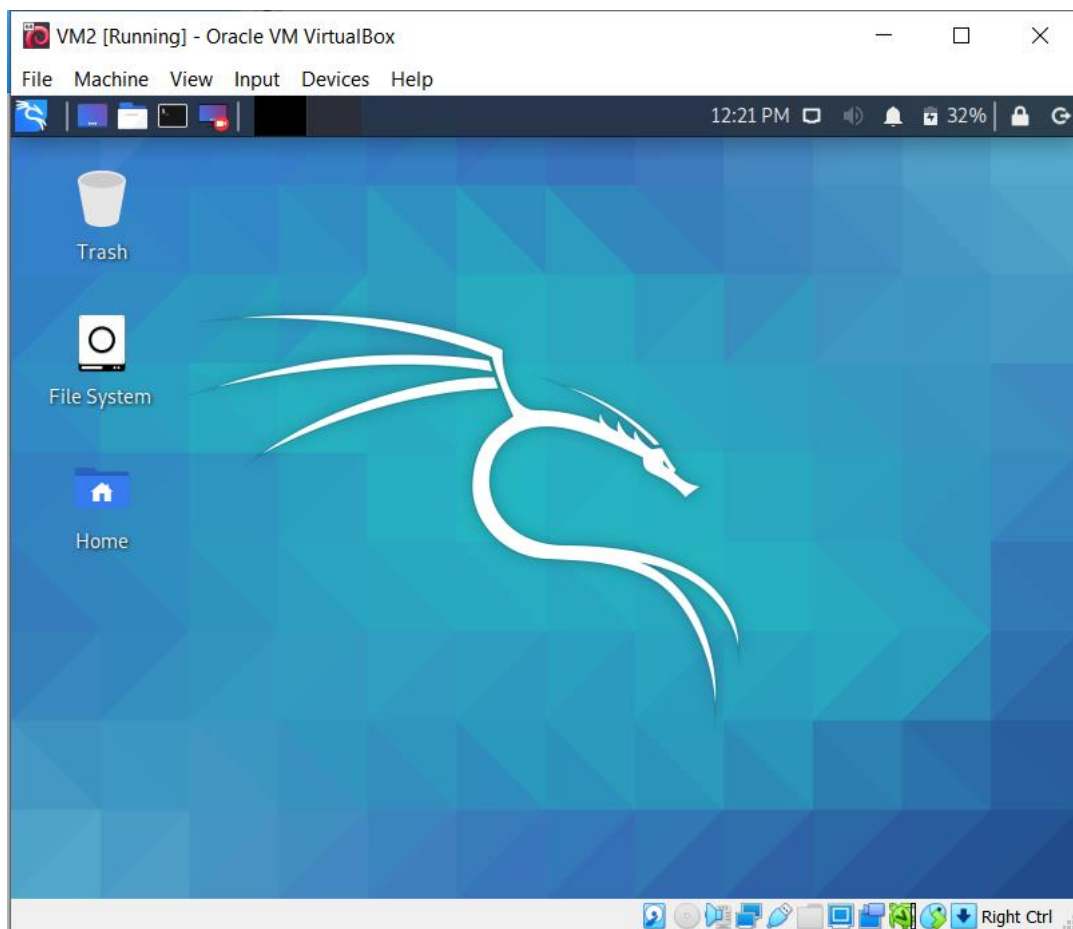
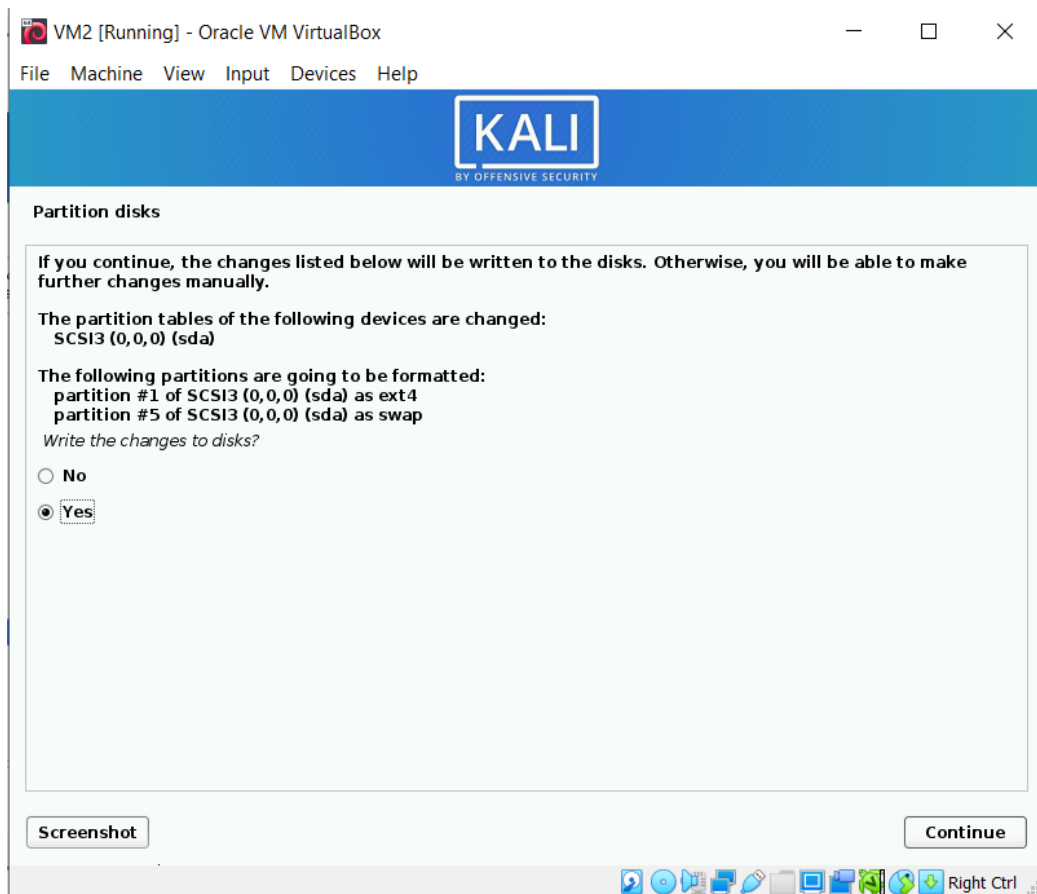
Cancel











ifconfig command:

```
kali@kali: ~/Desktop
File Actions Edit View Help
kali@kali:~/Desktop$ sudo -i
We trust you have received the usual lecture from the local System
Administrator. It usually boils down to these three things:

    #1) Respect the privacy of others.
    #2) Think before you type.
    #3) With great power comes great responsibility.

[sudo] password for kali:
root@kali:~# sudo ifconfig
eth0: flags=4163<UP,BROADCAST,RUNNING,MULTICAST>  mtu 1500
    inet 10.0.2.15  netmask 255.255.255.0  broadcast 10.0.2.255
    inet6 fe80::a00:27ff:fe5c:6526  prefixlen 64  scopeid 0x20<link>
    ether 08:00:27:5c:65:26  txqueuelen 1000  (Ethernet)
    RX packets 4  bytes 930 (930.0 B)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 27  bytes 2313 (2.2 KiB)
    TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0

lo: flags=73<UP,LOOPBACK,RUNNING>  mtu 65536
    inet 127.0.0.1  netmask 255.0.0.0
    inet6 ::1  prefixlen 128  scopeid 0x10<host>
    loop txqueuelen 1000  (Local Loopback)
    RX packets 12  bytes 556 (556.0 B)
    RX errors 0  dropped 0  overruns 0  frame 0
    TX packets 12  bytes 556 (556.0 B)
    TX errors 0  dropped 0  overruns 0  carrier 0  collisions 0

root@kali:~#
```

3. INSTALLATION OF CENTOS MINIMAL VERSION

?

×

← Create Virtual Machine

Name and operating system

Please choose a descriptive name and destination folder for the new virtual machine and select the type of operating system you intend to install on it. The name you choose will be used throughout VirtualBox to identify this machine.

Name:

VM2

Machine Folder:

D:\VM

▼

Type:

Linux


▼

Version:

Red Hat (64-bit)

▼

64



Expert Mode

Next

Cancel

?

×

← Create Virtual Machine

Memory size

Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.

The recommended memory size is **1024 MB**.

1024

▼

MB

4 MB

8192 MB

Next

Cancel

?

×

←

Create Virtual Machine

Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is **8.00 GB**.

☐ Do not add a virtual hard disk

☒ Create a virtual hard disk now

☐ Use an existing virtual hard disk file

VM1.vdi (Normal, 10.00 GB)

⌵

📁

Create

Cancel

?

×

←

Create Virtual Hard Disk

Hard disk file type

Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.

☒ VDI (VirtualBox Disk Image)

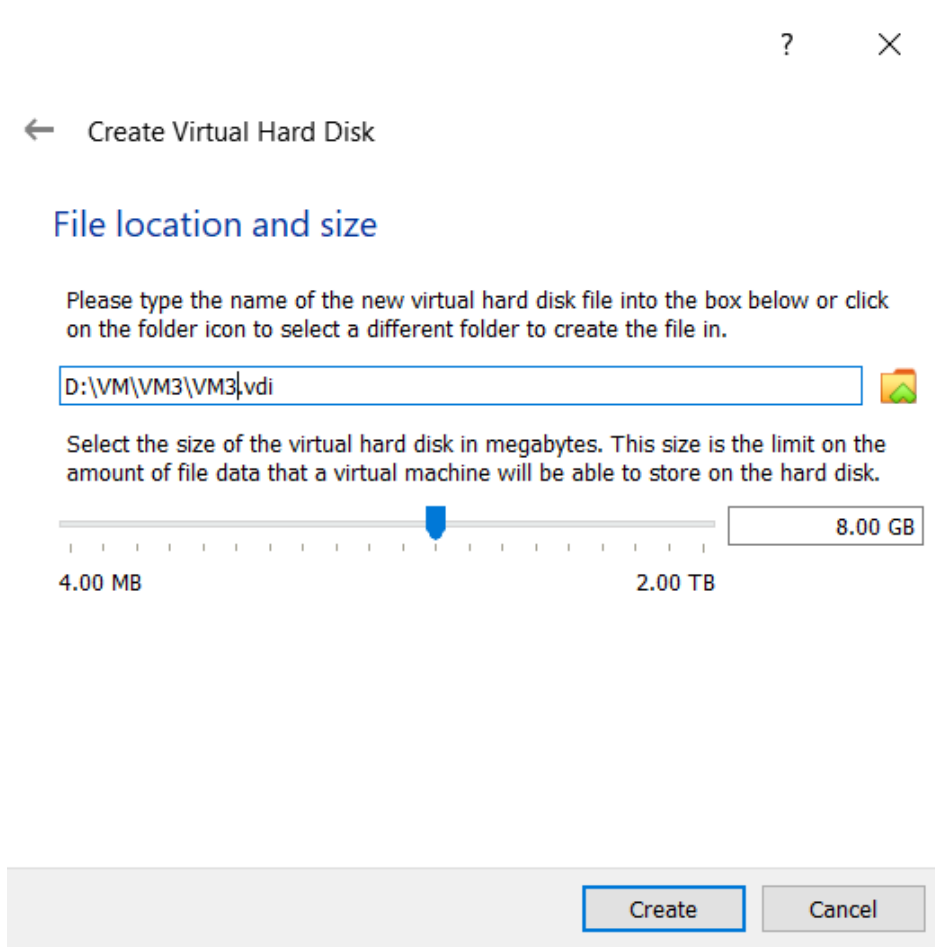
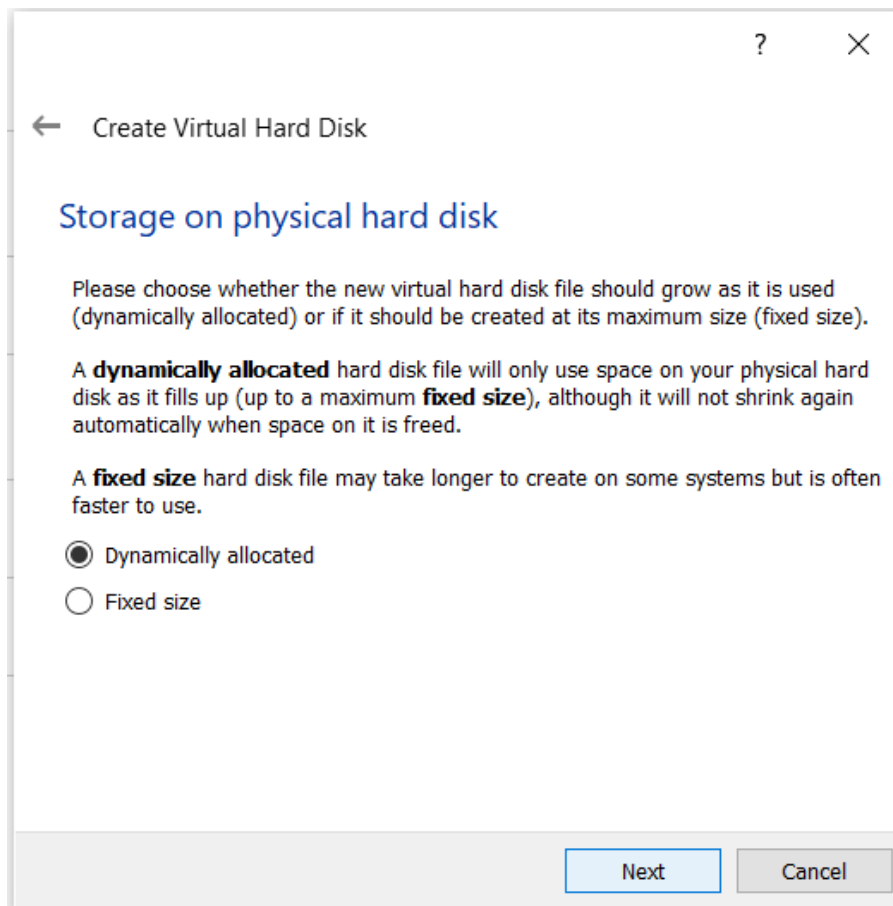
☐ VHD (Virtual Hard Disk)

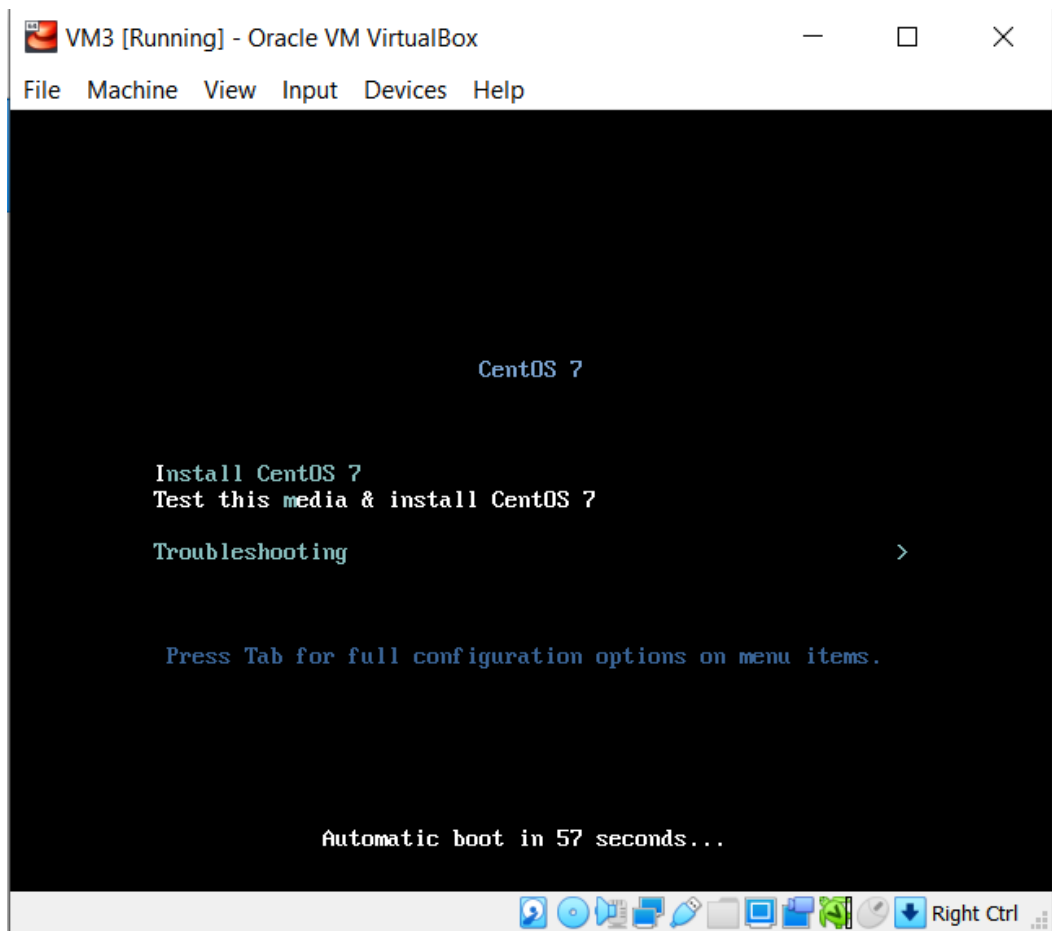
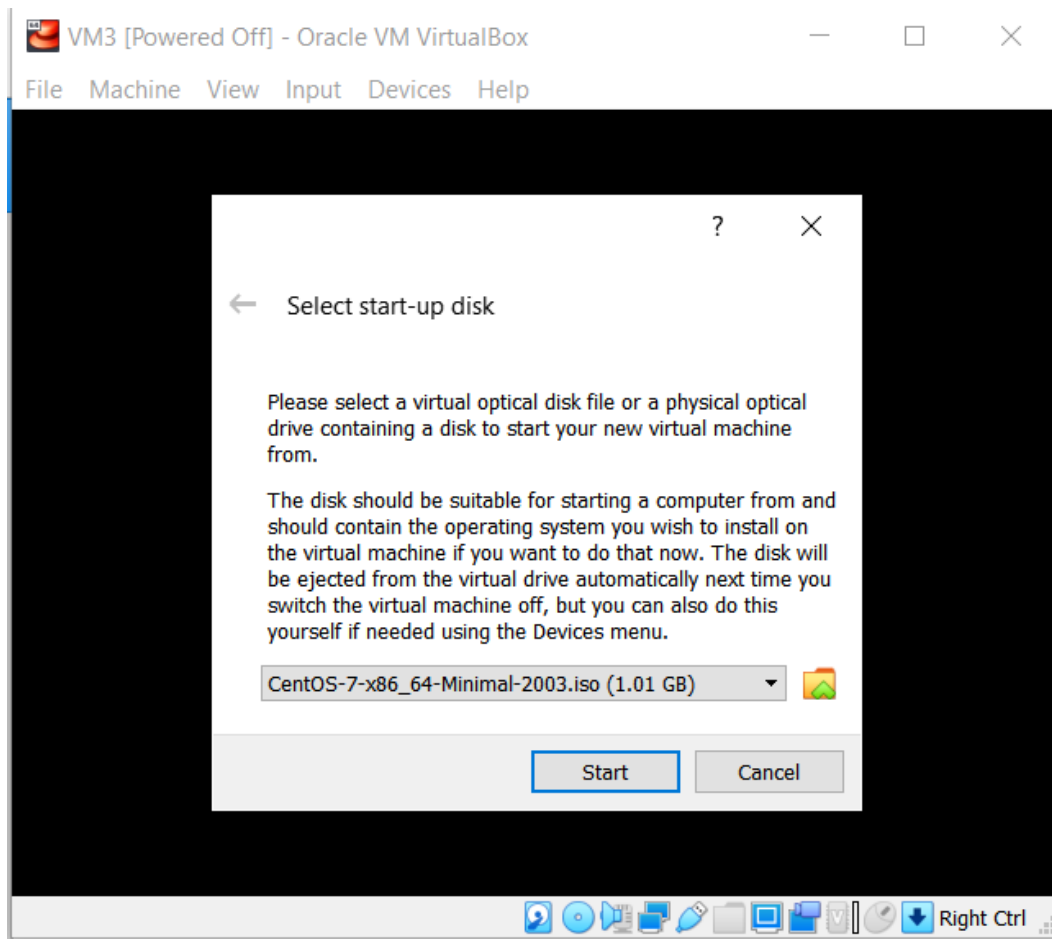
☐ VMDK (Virtual Machine Disk)


Expert Mode

Next

Cancel








CentOS

CENTOS 7 INSTALLATION

 us

Help!

WELCOME TO CENTOS 7.

What language would you like to use during the installation process?

English

Afrikaans

አማርኛ

العربية

অসমীয়া

Asturianu

Беларуская

Български

বাংলা

English

Afrikaans

Amharic

Arabic

Assamese

Asturian

Belarusian

Bulgarian

Bengali

English (United States)

English (United Kingdom)

English (India)

English (Australia)

English (Canada)

English (Denmark)

English (Ireland)


English (New Zealand)

English (Nigeria)

English (Hong Kong SAR China)

Quit

Continue





CentOS

CENTOS 7 INSTALLATION

 us

Help!

INSTALLATION SUMMARY

LOCALIZATION



DATE & TIME
Americas/New York timezone



KEYBOARD
English (US)



LANGUAGE SUPPORT
English (United States)

SOFTWARE



INSTALLATION SOURCE
Local media



SOFTWARE SELECTION
Minimal Install

SYSTEM



INSTALLATION DESTINATION



KDUMP

Kdump is enabled

Quit

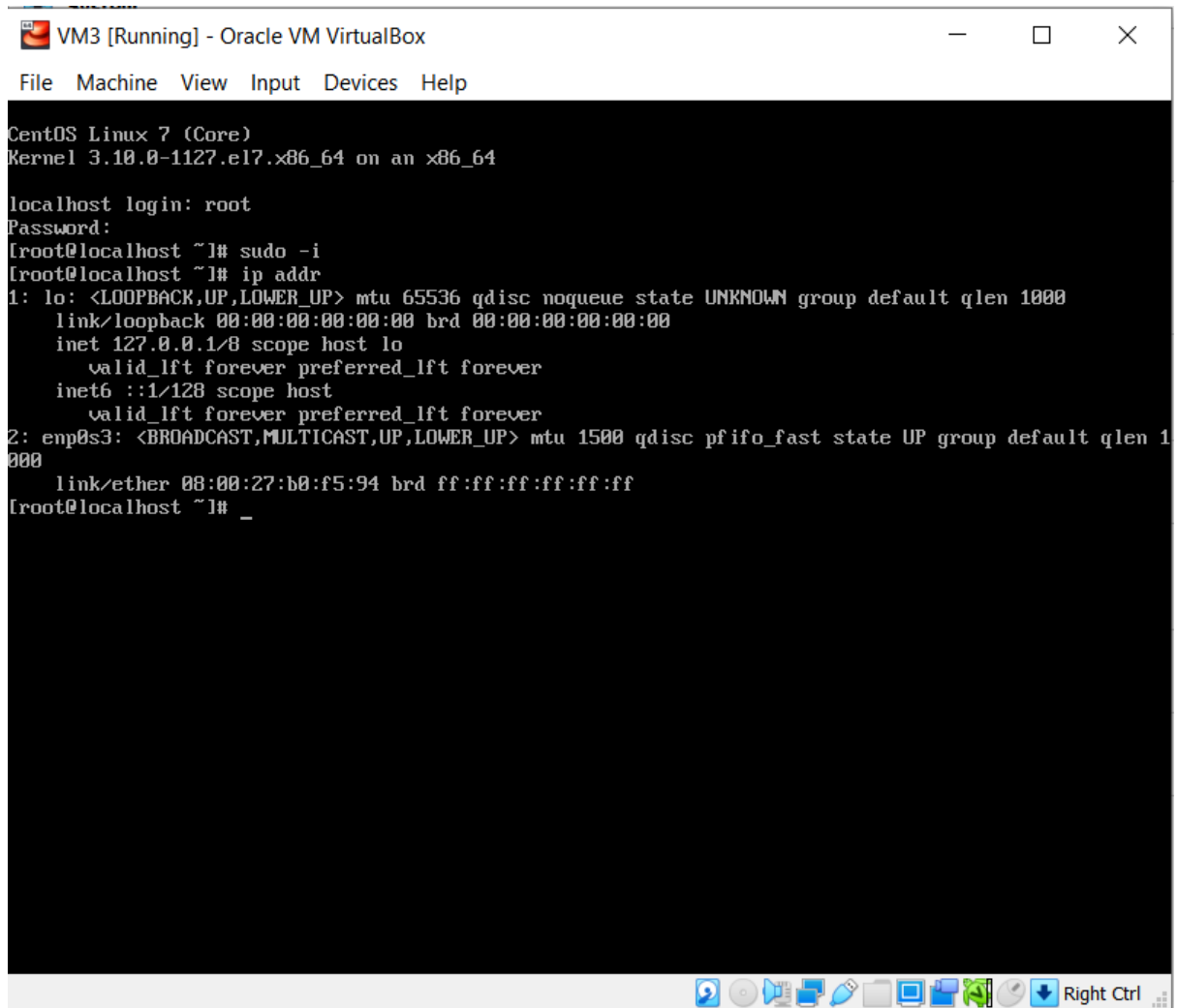
Begin Installation

We won't touch your disks until you click 'Begin Installation'.

⚠ Please complete items marked with this icon before continuing to the next step.



ip addr command:



The screenshot shows a terminal window titled "VM3 [Running] - Oracle VM VirtualBox". The terminal output is as follows:

```
CentOS Linux 7 (Core)
Kernel 3.10.0-1127.el7.x86_64 on an x86_64

localhost login: root
Password:
[root@localhost ~]# sudo -i
[root@localhost ~]# ip addr
1: lo: <LOOPBACK,UP,LOWER_UP> mtu 65536 qdisc noqueue state UNKNOWN group default qlen 1000
    link/loopback 00:00:00:00:00:00 brd 00:00:00:00:00:00
    inet 127.0.0.1/8 scope host lo
        valid_lft forever preferred_lft forever
    inet6 ::1/128 scope host
        valid_lft forever preferred_lft forever
2: enp0s3: <BROADCAST,MULTICAST,UP,LOWER_UP> mtu 1500 qdisc pfifo_fast state UP group default qlen 1000
    link/ether 08:00:27:b0:f5:94 brd ff:ff:ff:ff:ff:ff
[root@localhost ~]# _
```

The terminal window has a menu bar with "File", "Machine", "View", "Input", "Devices", and "Help". The bottom status bar shows various icons and the text "Right Ctrl".