

LAB : 3

Objective :

Installation & Configuration of Oracle Virtual box for Window XP & Android

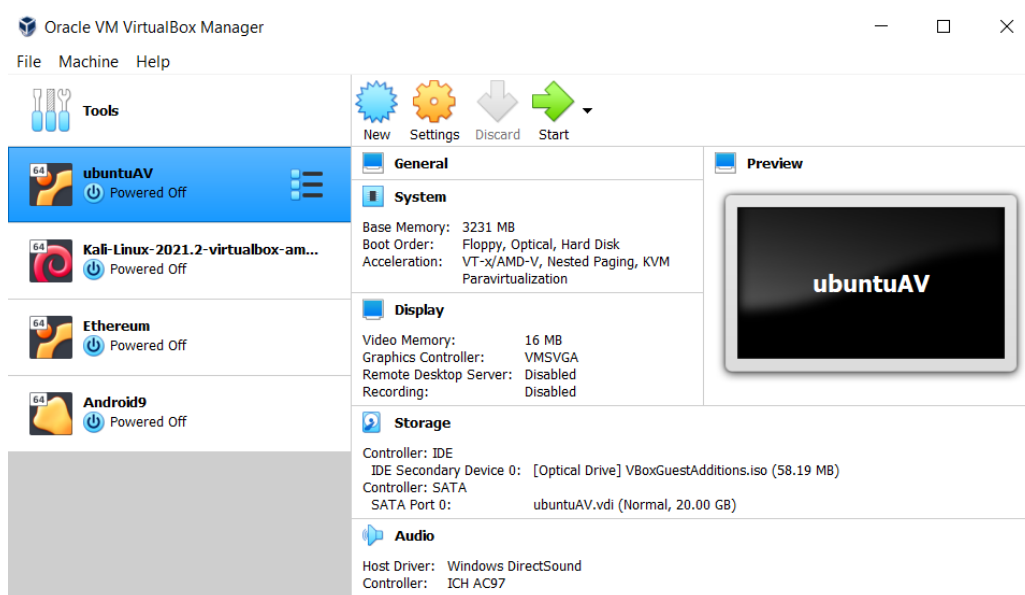
Requirements :

1. Windows PC (Windows 7/8/10) / Mac
2. Oracle VM Virtual box
3. Iso images of Windows XP and Android OS
4. Activation key for Windows XP

Procedure :

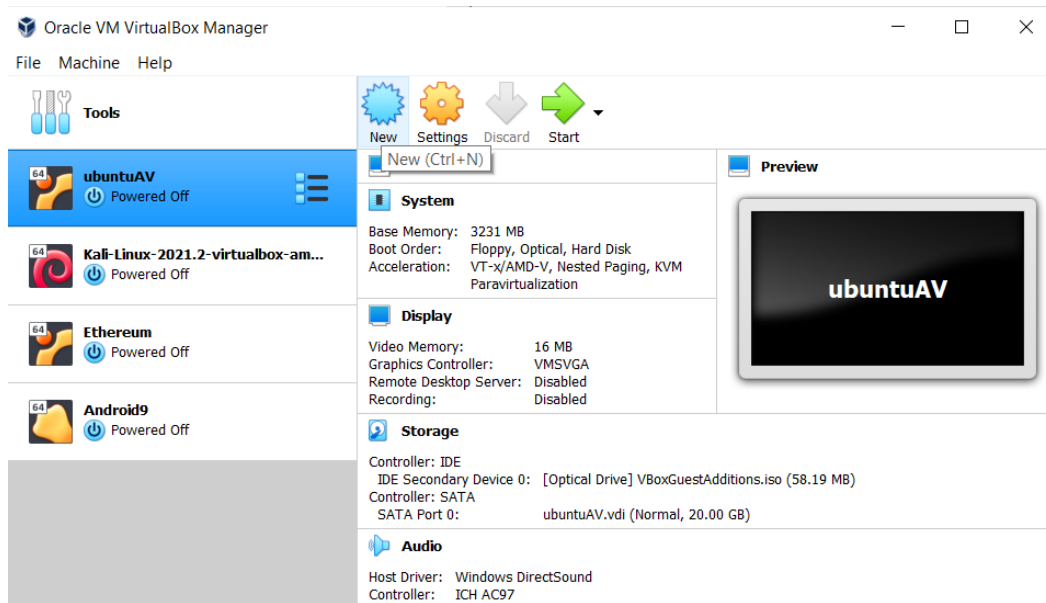
a) Installing Oracle VM Virtual box

1. Visit <https://www.virtualbox.org/> and download VirtualBox software as per your operating system.
2. Simply run the setup and install it like any normal application.

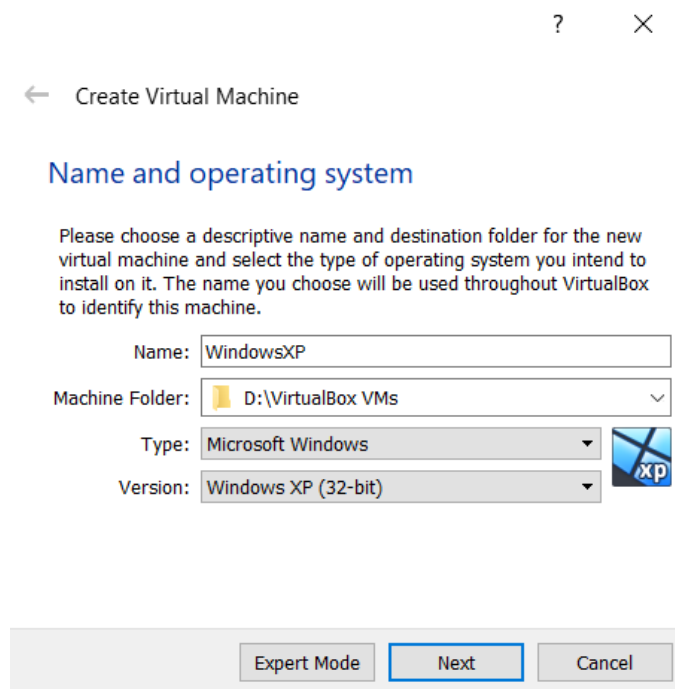


b) Configure Windows XP on Oracle VM VirtualBox

1. Visit <https://archive.org/details/WinXPProSP3x86> and download iso image of Windows XP operating system. Activation Key is : M6TF9-8XQ2M-YQK9F-7TBB2-XGG88
2. Open Oracle VM VirtualBox and click on New option.



3. Enter values as shown in fig



4. Set RAM allocated and then create virtual hard disk as shown in fig. below. Here we are using Dynamic allocation for hard disk file.

The figure consists of two screenshots of the Oracle VM VirtualBox 'Create Virtual Machine' wizard.

Top Screenshot: Memory size

- Back arrow, 'Create Virtual Machine' title.
- Section: **Memory size**
- Text: 'Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.'
- Text: 'The recommended memory size is **1024 MB**.'
- Slider: Range from 4 MB to 8192 MB. The slider is positioned at 2048 MB.
- Input field: '2048 MB'.
- Buttons: 'Next' (highlighted with a blue border), 'Cancel'.

Bottom Screenshot: Hard disk

- Back arrow, 'Create Virtual Machine' title.
- Section: **Hard disk**
- Text: '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.'
- Text: '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.'
- Text: 'The recommended size of the hard disk is **10.00 GB**.'
- Radio buttons:
 - ☐ Do not add a virtual hard disk
 - ☒ Create a virtual hard disk now
 - ☐ Use an existing virtual hard disk file
- Text field: 'Ethereum-disk001.vdi (Normal, 50.00 GB)' with a folder icon to the right.
- Buttons: 'Create' (highlighted with a blue border), 'Cancel'.

The image displays three sequential screenshots of the 'Create Virtual Hard Disk' wizard in Oracle VM VirtualBox.

Screenshot 1: Hard disk file type
This screen shows the selection of the virtual hard disk file type. The options are:

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

At the bottom, there are buttons for 'Expert Mode', 'Next', and 'Cancel'.

Screenshot 2: Storage on physical hard disk
This screen explains the difference between dynamically allocated and fixed size hard disks.

- Dynamically allocated:** The 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.
- Fixed size:** A fixed size hard disk file may take longer to create on some systems but is often faster to use.

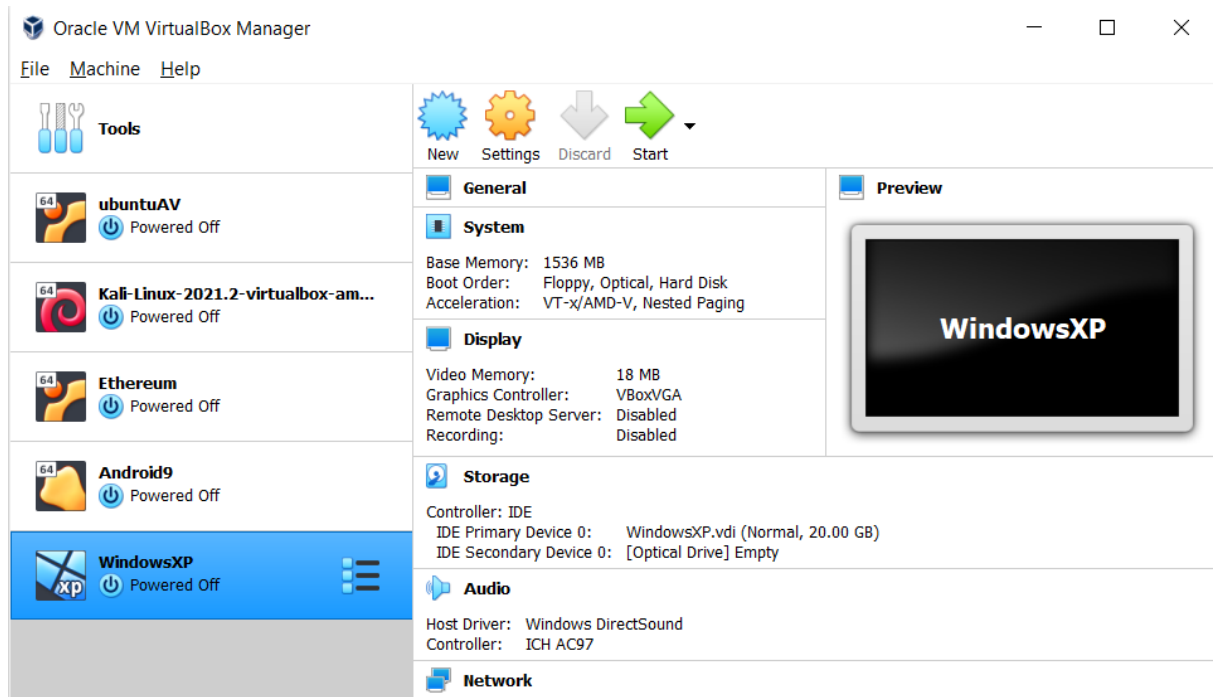
The 'Dynamically allocated' option is selected. At the bottom, there are buttons for 'Next' and 'Cancel'.

Screenshot 3: File location and size
This screen allows the user to specify the file location and size.

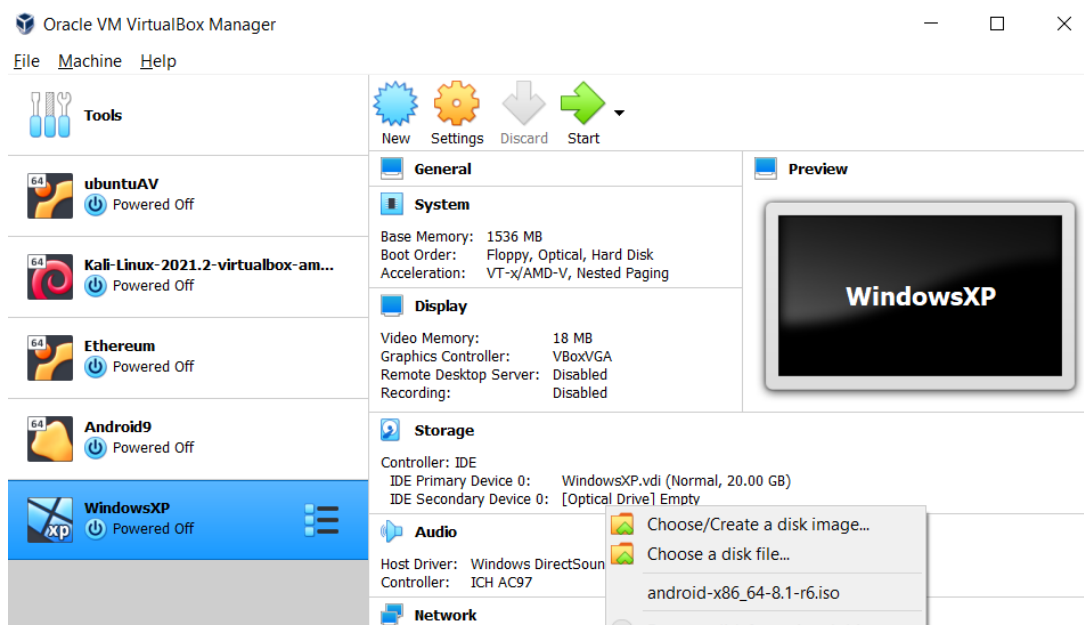
- File location:** The text box contains 'D:\VirtualBox VMs\WindowsXP\WindowsXP.vdi'.
- File size:** A slider is shown with a range from 4.00 MB to 2.00 TB. The current value is 20.00 GB.

At the bottom, there are buttons for 'Create' and 'Cancel'.

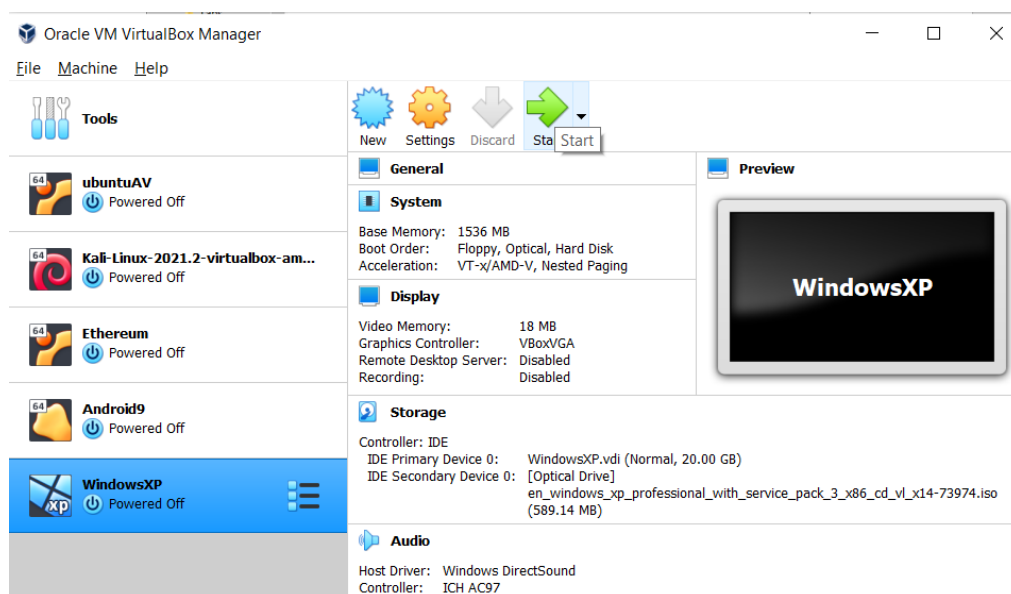
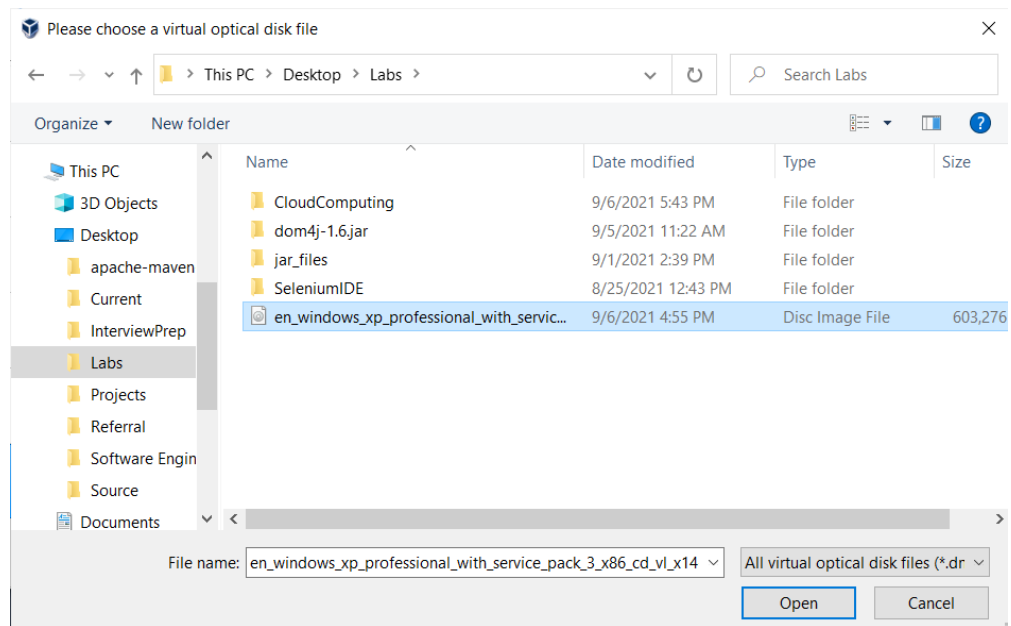
5. Select created machine from menu.



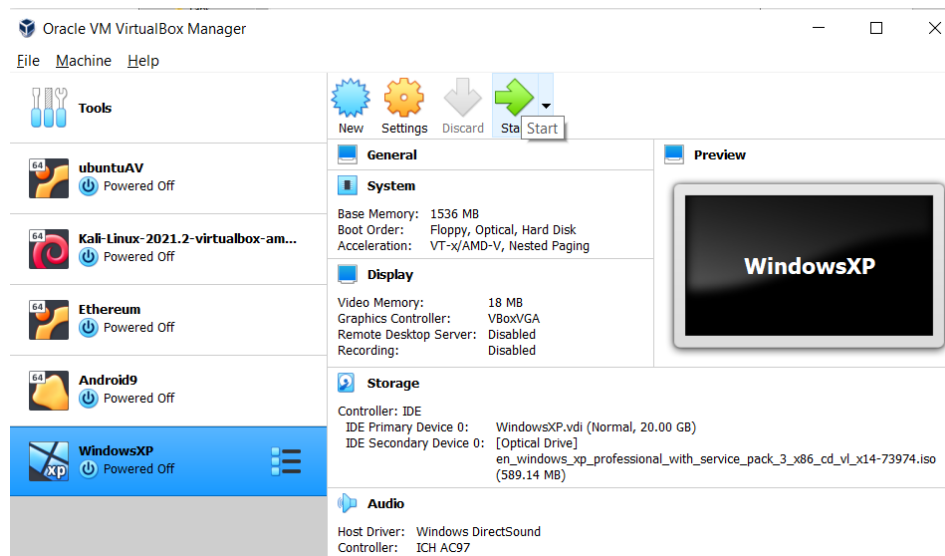
6. Select Storage option. Click on Optical Drive and select 'Choose a disk file'.



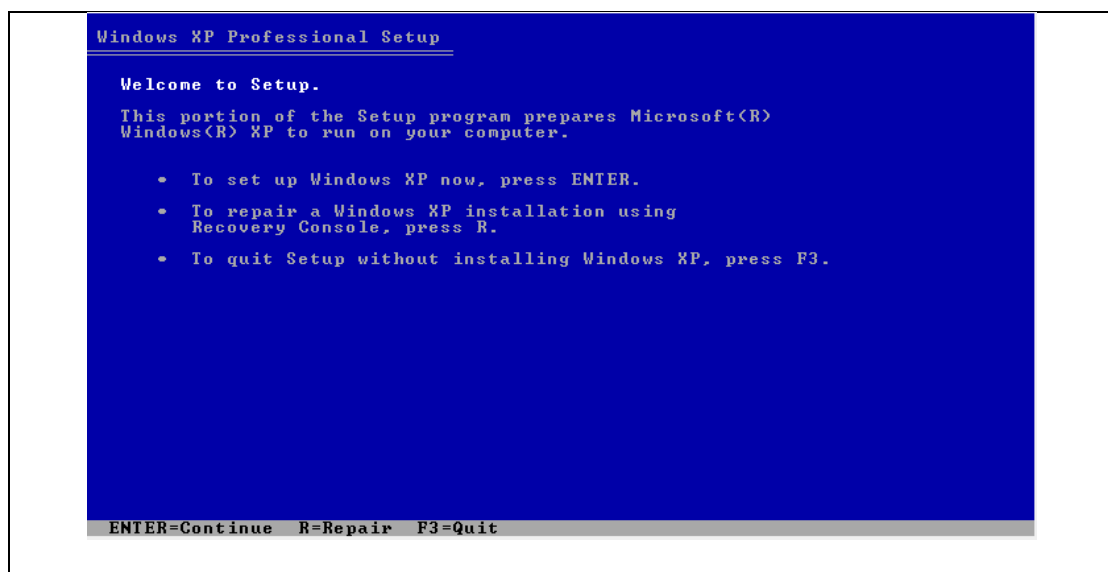
7. Select downloaded iso image of OS.



8. Click on 'start' to boot VM. During first time boot, install setup will be prompted (if iso image is inserted properly as disk).



9. In next screens, prompt to install OS and accept license agreement. Select partition space created and format partition using NTFS file system.



Windows XP Licensing Agreement

END-USER LICENSE AGREEMENT FOR MICROSOFT SOFTWARE

MICROSOFT WINDOWS XP PROFESSIONAL EDITION SERVICE PACK 3

IMPORTANT-READ CAREFULLY: This End-User License Agreement (<'EULA'>) is a legal agreement between you (either an individual or a single entity) and Microsoft Corporation or one of its affiliates (<'Microsoft'>) for the Microsoft software that accompanies this EULA, which includes computer software and may include associated media, printed materials, 'online' or electronic documentation, and Internet-based services (<'Software'>). An amendment or addendum to this EULA may accompany the Software.

Some of the terms have changed since the initial release of Windows XP Service Pack 2. The changes include:

* additional information about the validation functions of the Software, which determine whether the Software is counterfeit, improperly licensed or a non-genuine Windows

F8=I agree ESC=I do not agree PAGE DOWN=Next Page

Windows XP Professional Setup

The following list shows the existing partitions and unpartitioned space on this computer.

Use the UP and DOWN ARROW keys to select an item in the list.

- To set up Windows XP on the selected item, press ENTER.
- To create a partition in the unpartitioned space, press C.
- To delete the selected partition, press D.

20474 MB Disk 0 at Id 0 on bus 0 on atapi [MBR]

Unpartitioned space 20473 MB

ENTER=Install C=Create Partition F3=Quit

Windows XP Professional Setup

A new partition for Windows XP has been created on

20474 MB Disk 0 at Id 0 on bus 0 on atapi [MBR].

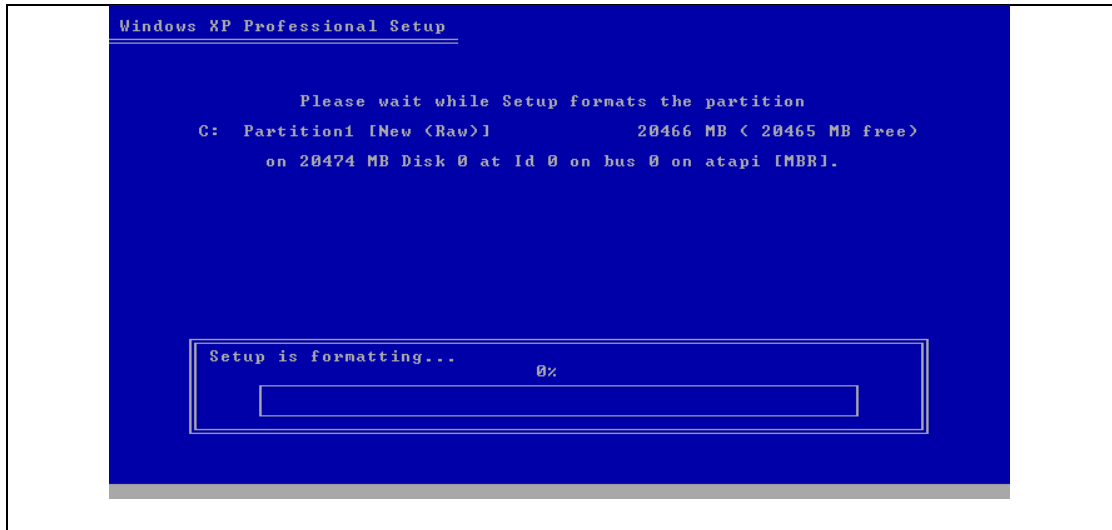
This partition must now be formatted.

From the list below, select a file system for the new partition. Use the UP and DOWN ARROW keys to select the file system you want, and then press ENTER.

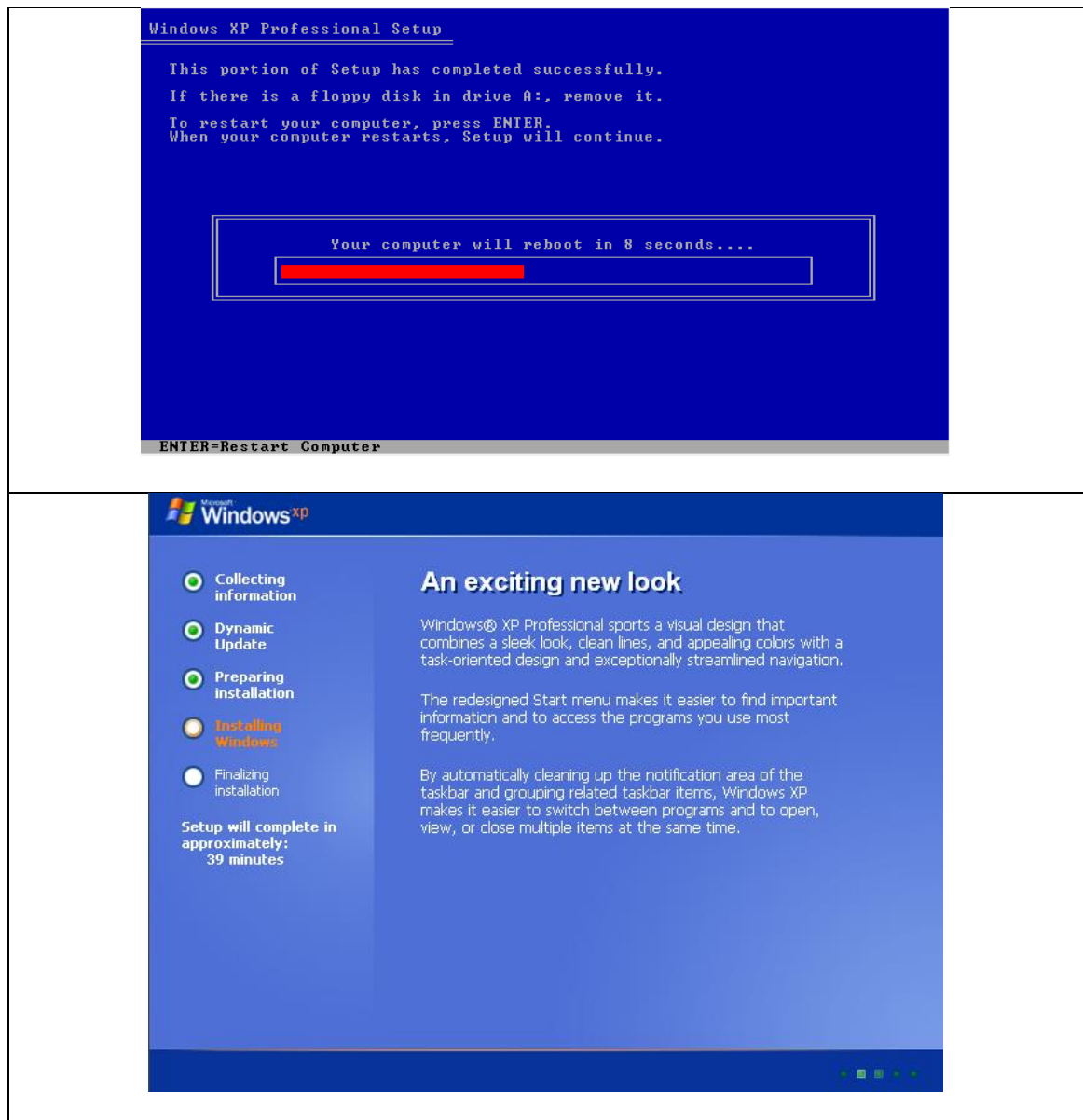
If you want to select a different partition for Windows XP, press ESC.

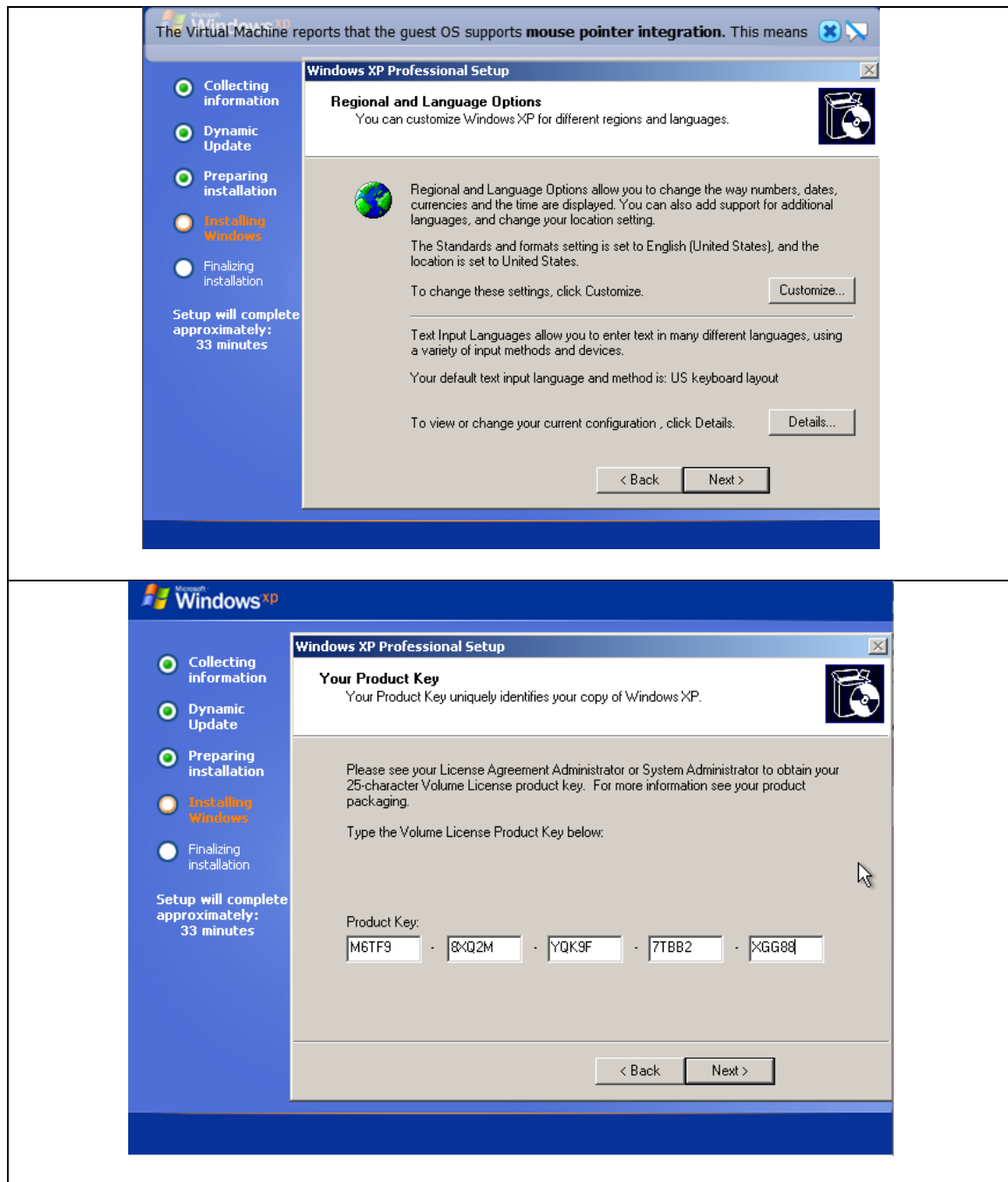
Format the partition using the NTFS file system (Quick)
 Format the partition using the FAT file system (Quick)
 Format the partition using the NTFS file system
 Format the partition using the FAT file system

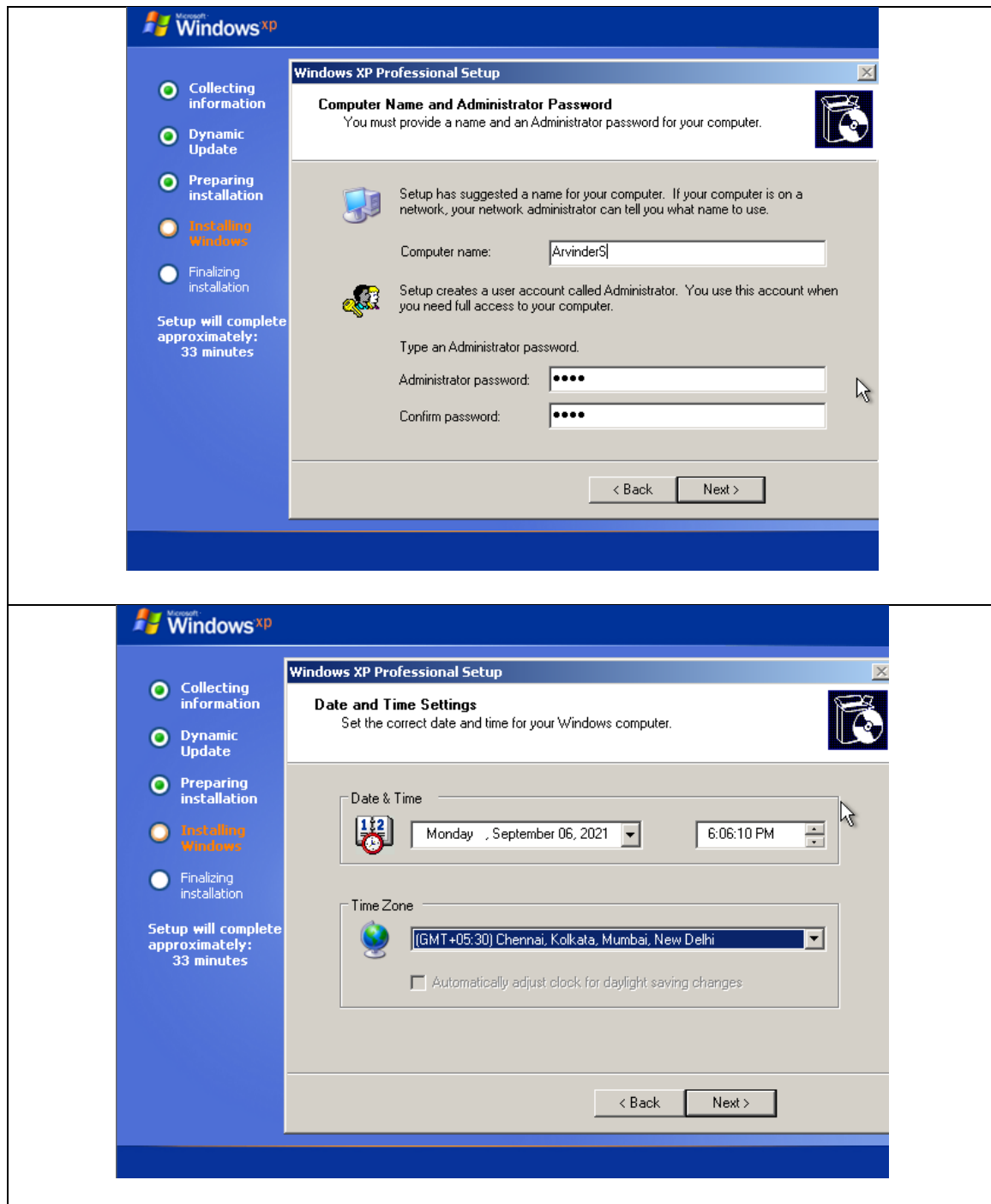
ENTER=Continue ESC=Cancel

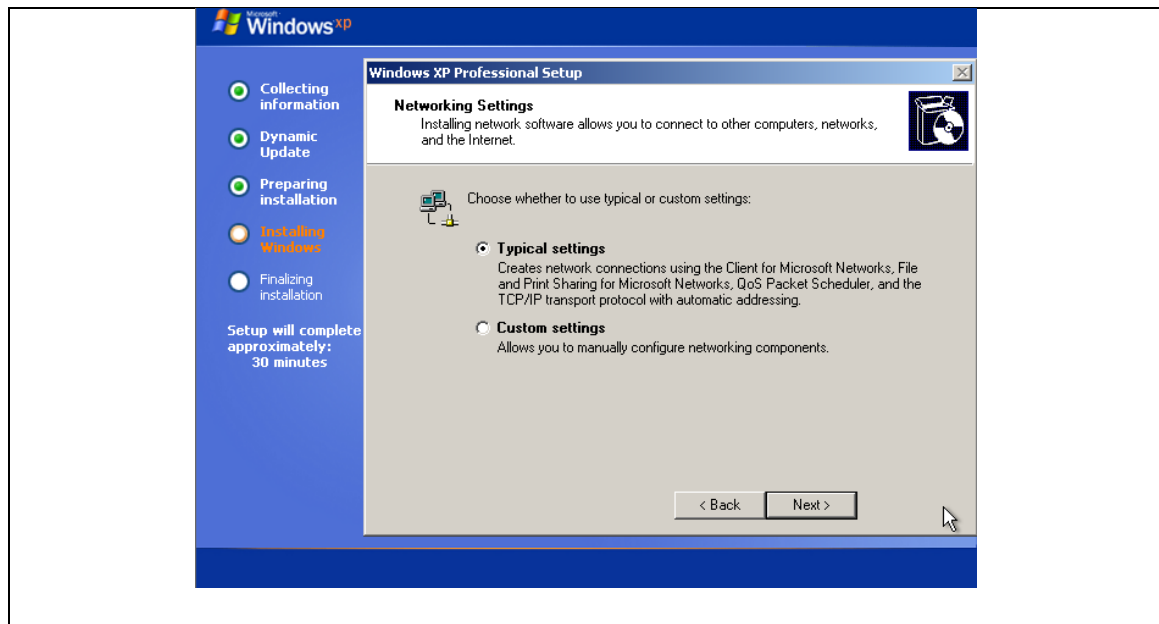


10. In upcoming screens do setup as shown in fig. below.



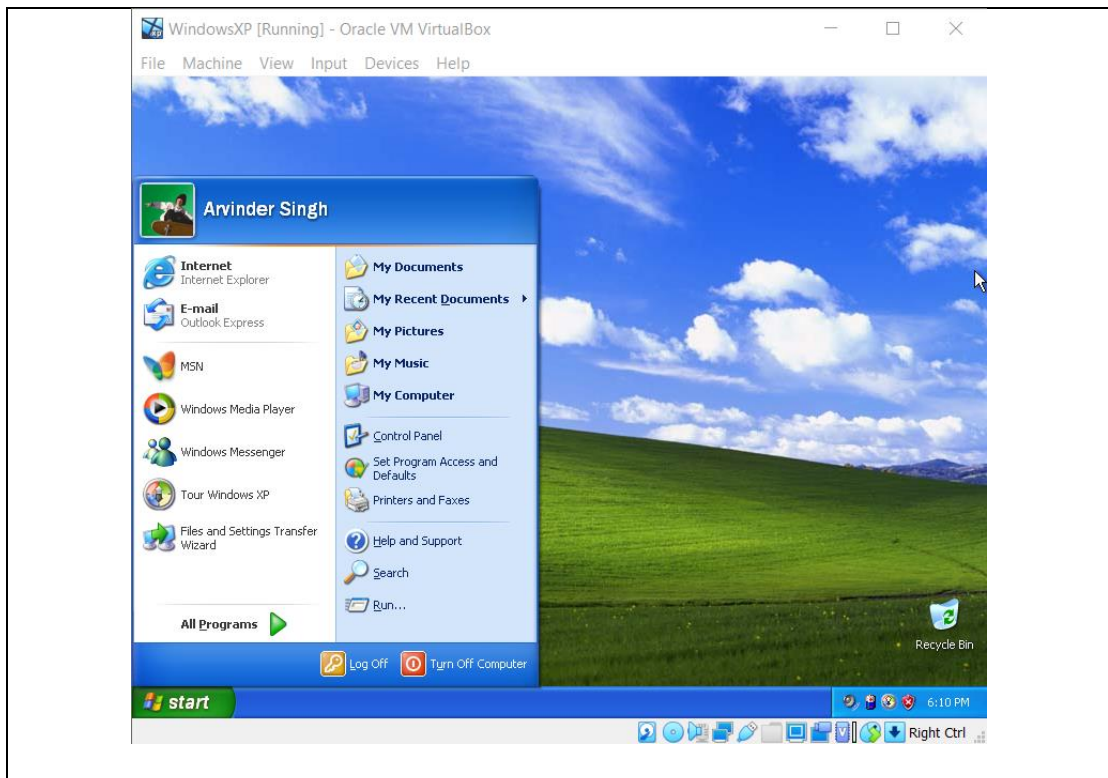






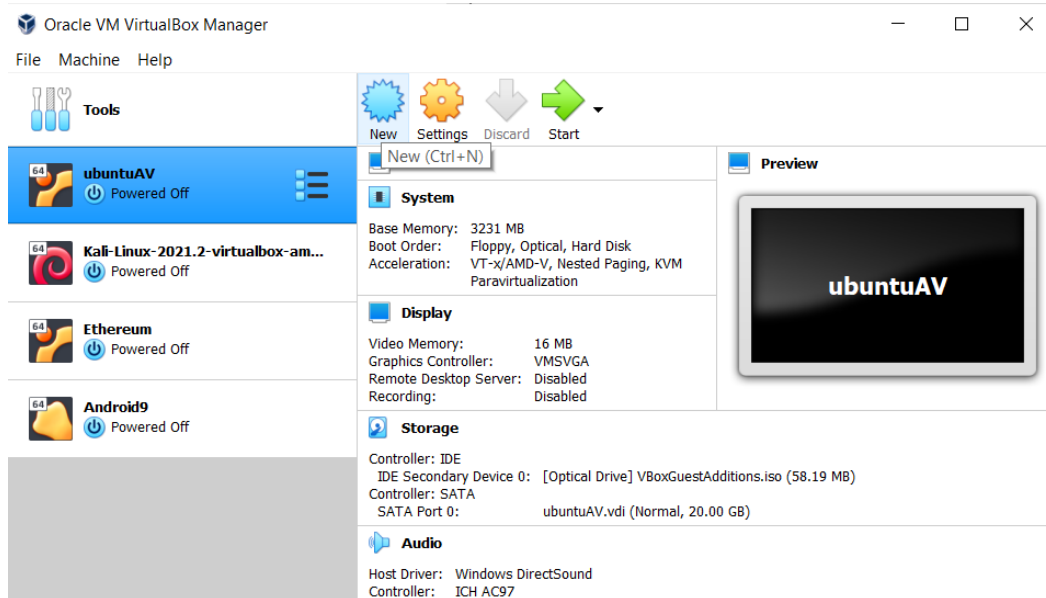
11. Do initial setup of windows and Windows XP is ready to use on Oracle VM VirtualBox.



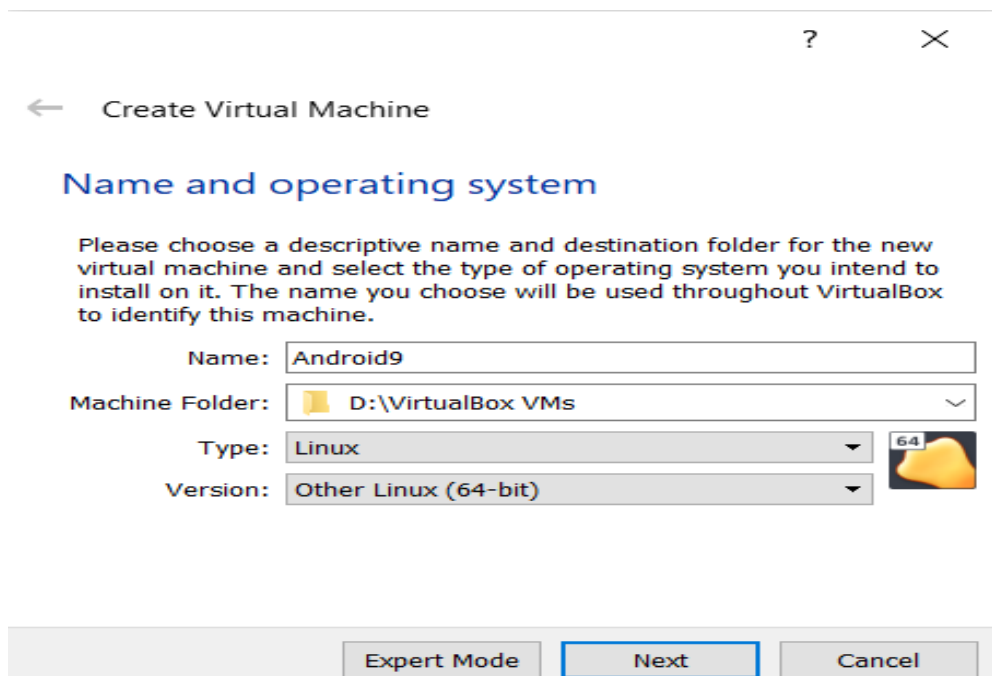


c) Configure Android OS on Oracle VM VirtualBox

1. Visit <https://www.android-x86.org/> and download iso image of desired Android OS. Here we are using iso image of Android Pie 9.0.
2. Open Oracle VM VirtualBox and click on New option.



3. Enter values as shown in fig



4. Set RAM allocated and then create virtual hard disk as shown in fig. below. Here we are using Dynamic allocation for hard disk file.

The figure consists of two screenshots of the Oracle VM VirtualBox 'Create Virtual Machine' wizard.

Top Screenshot: Memory size

- Back arrow, 'Create Virtual Machine' title, help icon, and close icon.
- Section header: **Memory size**
- Text: 'Select the amount of memory (RAM) in megabytes to be allocated to the virtual machine.'
- Text: 'The recommended memory size is **1024 MB**.'
- A horizontal slider bar ranging from 4 MB to 8192 MB. The slider is positioned at 2048 MB.
- Input field showing '2048 MB'.
- Buttons: 'Next' and 'Cancel'.

Bottom Screenshot: Hard disk

- Back arrow, 'Create Virtual Machine' title, help icon, and close icon.
- Section header: **Hard disk**
- Text: '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.'
- Text: '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.'
- Text: 'The recommended size of the hard disk is **12.00 GB**.'
- Radio button options:
 - ☐ Do not add a virtual hard disk
 - ☒ Create a virtual hard disk now
 - ☐ Use an existing virtual hard disk file
- Text field showing 'Ethereum-disk001.vdi (Normal, 50.00 GB)' with a folder icon to the right.
- Buttons: 'Create' and 'Cancel'.

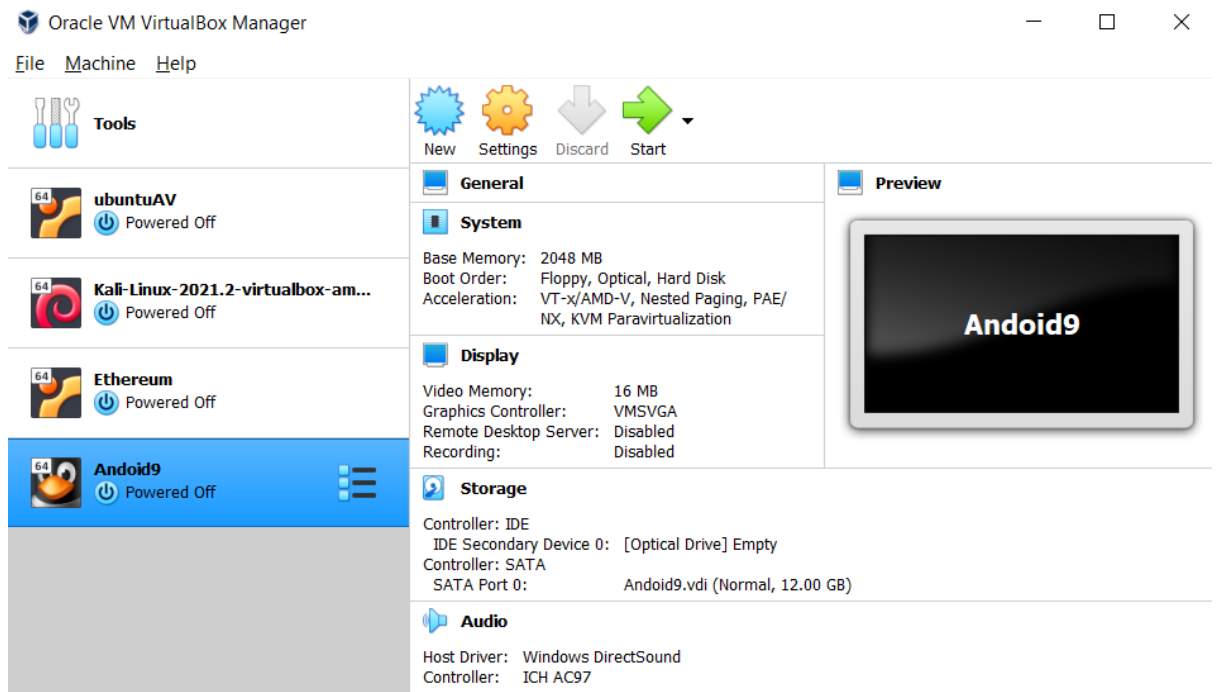
The image displays three sequential screenshots of the 'Create Virtual Hard Disk' wizard in Oracle VM VirtualBox.

Screenshot 1: Hard disk file type
This screen shows the 'Hard disk file type' selection. The instructions state: '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.' Three radio buttons are available:
- ☒ VDI (VirtualBox Disk Image)
- ☐ VHD (Virtual Hard Disk)
- ☐ VMDK (Virtual Machine Disk)
At the bottom, there are buttons for 'Expert Mode', 'Next', and 'Cancel'.

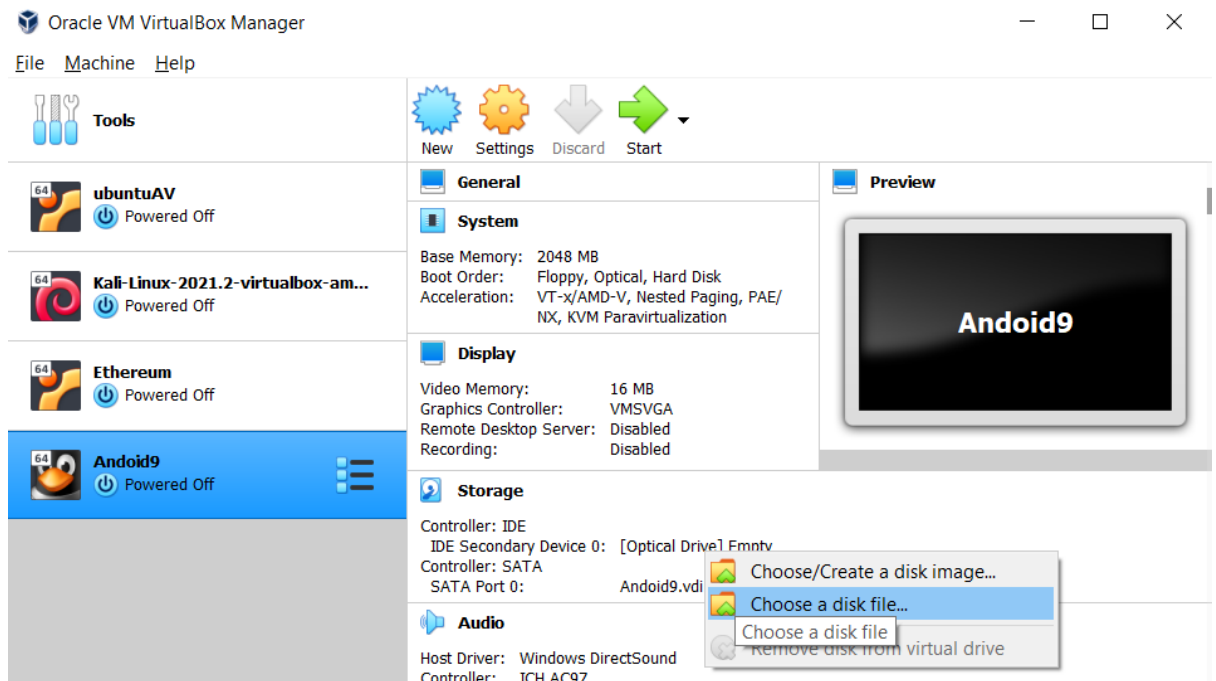
Screenshot 2: Storage on physical hard disk
This screen shows the 'Storage on physical hard disk' selection. The instructions state: 'Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).'
A **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.
Two radio buttons are available:
- ☒ Dynamically allocated
- ☐ Fixed size
At the bottom, there are buttons for 'Next' and 'Cancel'.

Screenshot 3: File location and size
This screen shows the 'File location and size' selection. The instructions state: '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.'
The file name field contains: D:\VirtualBox VMs\Android9\Android9.vdi
Below the field, the instructions state: '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.'
A slider is shown with a range from 4.00 MB to 12.00 GB. The current selection is 12.00 GB (12884901888 B).
At the bottom, there are buttons for 'Create' and 'Cancel'.

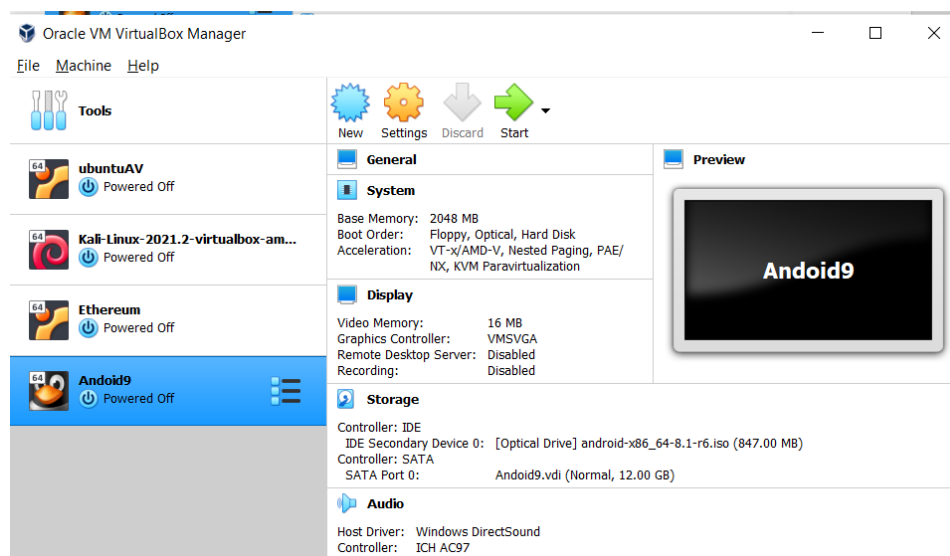
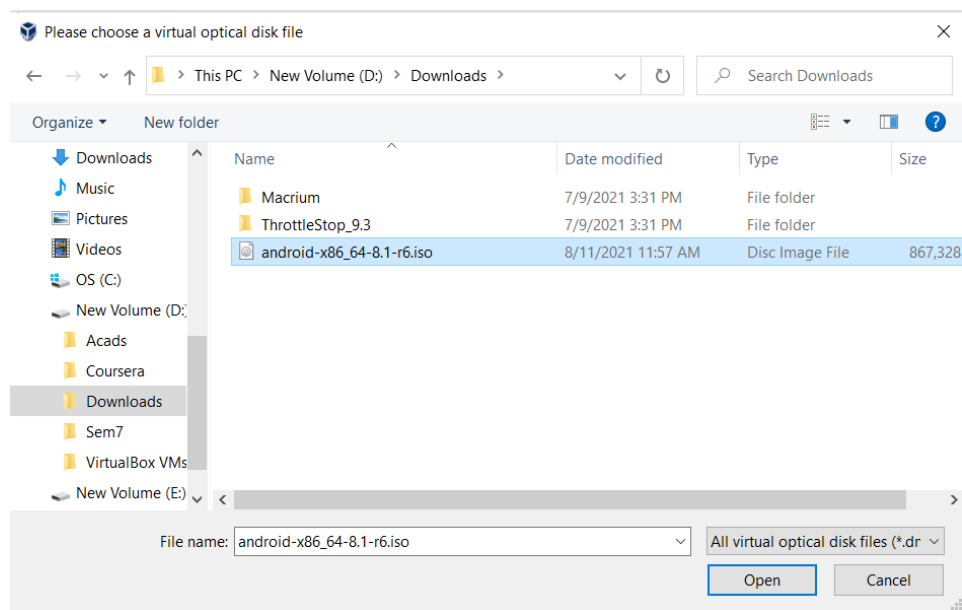
5. Select created machine from menu.



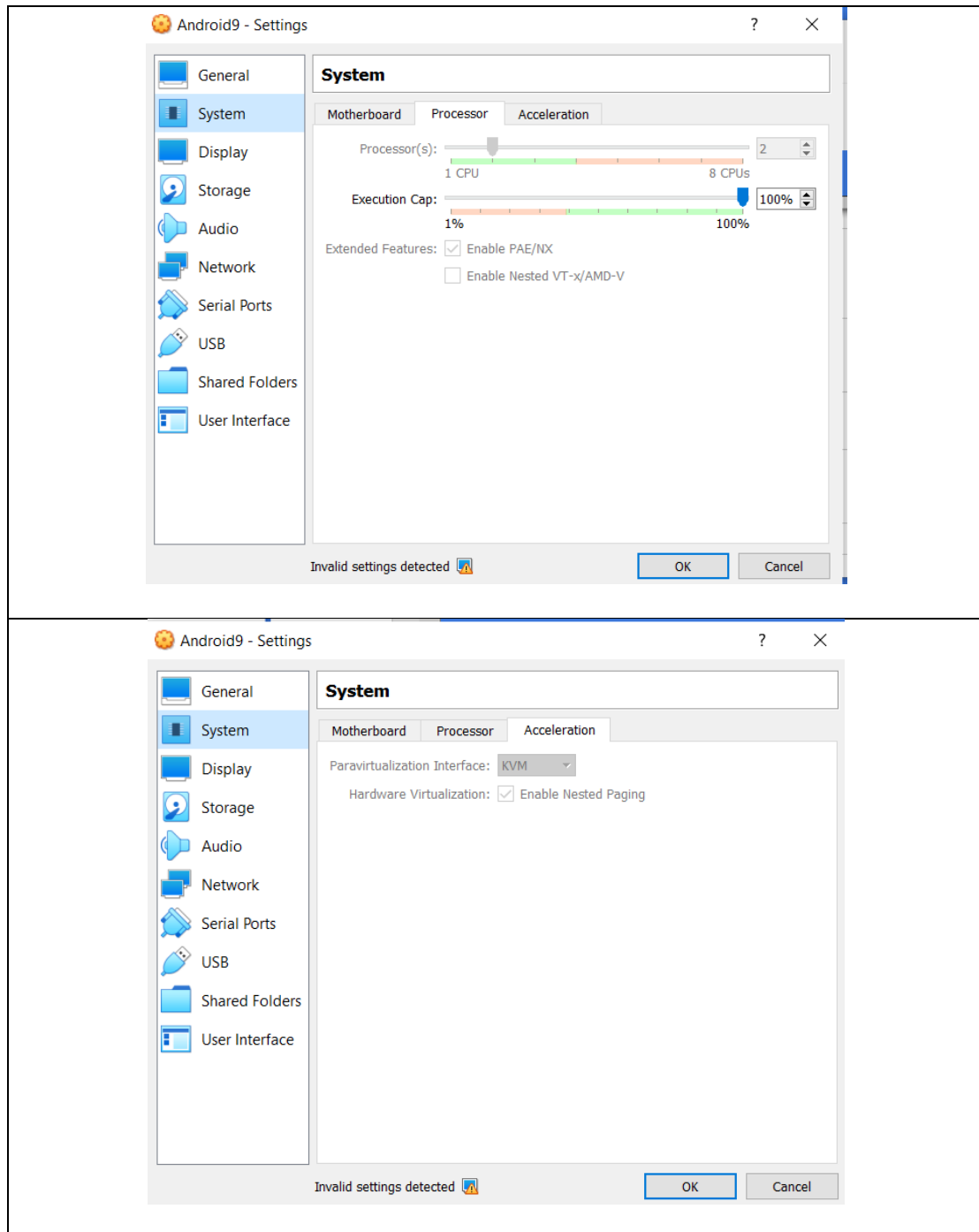
6. Select Storage option. Click on Optical Drive and select 'Choose a disk file'.



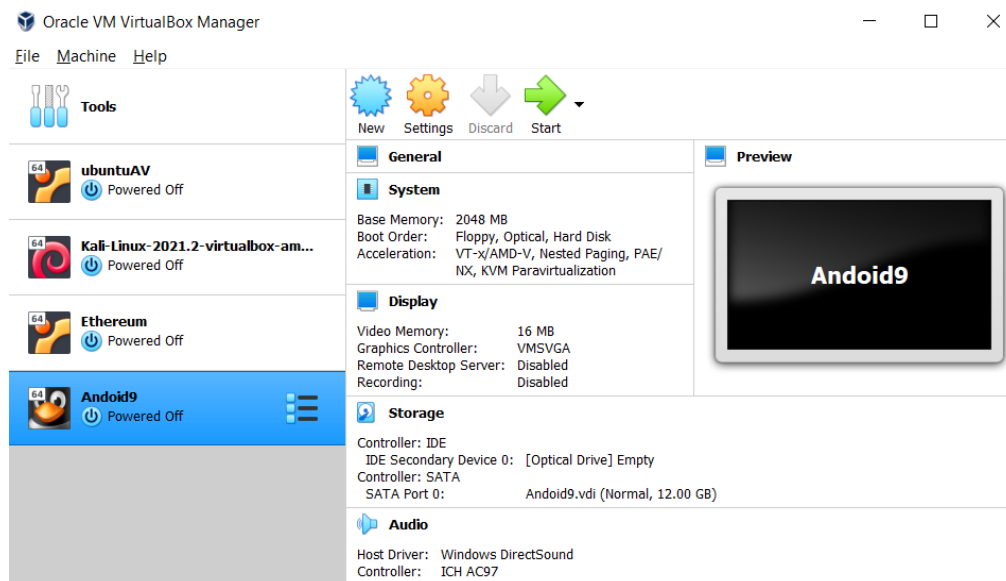
7. Select downloaded iso image of OS.



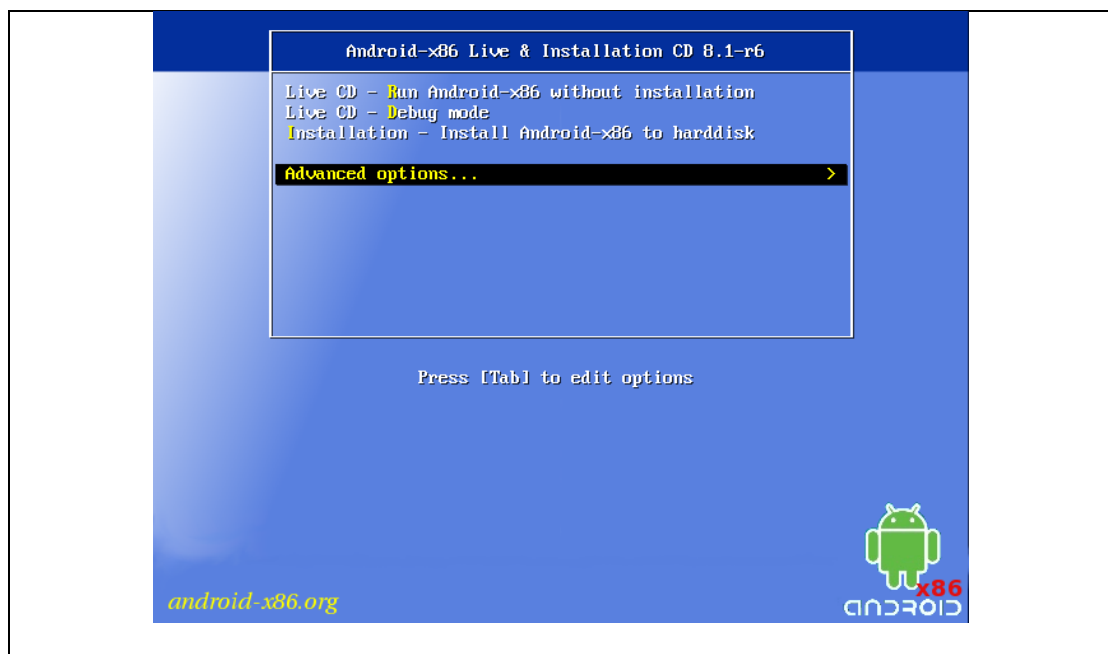
8. Following are settings specific to Android based VM.



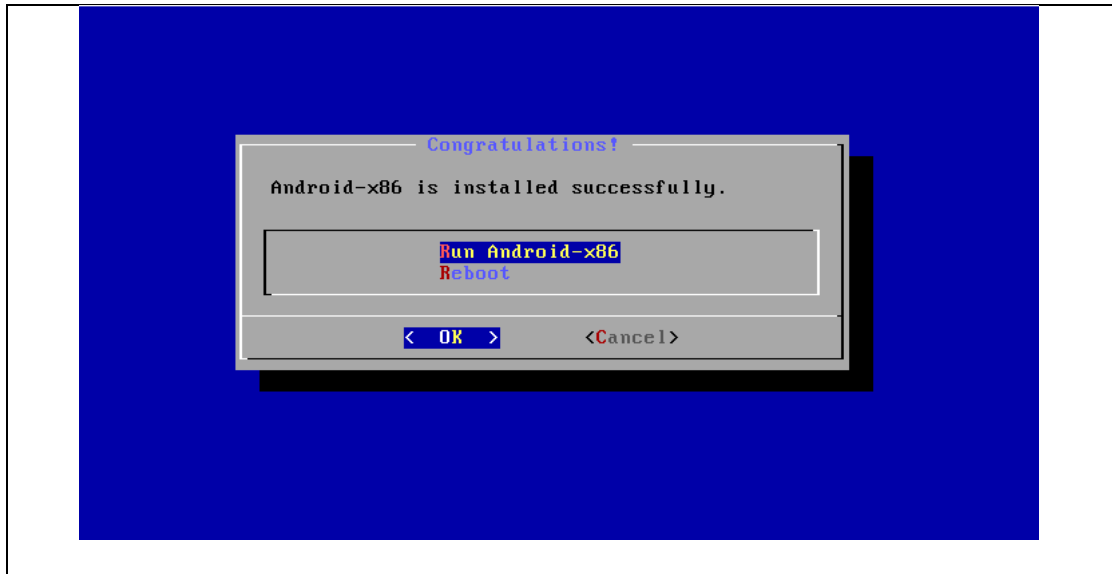
9. Click on 'start' to boot VM. During first time boot, install setup will be prompted (if iso image is inserted properly as disk).



10. In next screens, select Advanced options and then Auto Installation and confirm as shown below. After this Select Run Android-x86.







11. In start up screen, do first time setup on android. Android VM is ready to use.

