



BAHIR DAR INSTITUTE OF TECHNOLOGY

FACULTY OF COMPUTING

Operating System and System Programming

Individual Assignment

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# Minix OS Installation

**The latest version of Minix operating system:** Make sure to get the newest stable version of MINIX . The version numbers follow this pattern: 3, 3.4.0, 3.4.1, where higher numbers mean newer releases with bug fixes and improvements. Only download development or beta versions if you're testing them.

## Where to Download MINIX 3:

Always prioritize downloading MINIX 3 from the official source to ensure you get a genuine, unmodified version:

- Official MINIX Website: This is the primary source: <http://www.minix3.org/>

### Download

#### Official releases - x86 - CD images

Trying MINIX 3 is easy. You just download the compressed CD image file, decompress it, and burn it to a CD-ROM. This CD is a live CD. You can boot your computer from it and a few seconds later you log in as root. You do not have to install MINIX 3 to the hard disk to test it. If you decide you want to install it, you then have to create a hard disk partition for it (1GB to do anything useful) and start the live CD again and run setup. Please note that on x86, MINIX3 **does not support USB** at all (yet!). Proceed as follows:

- Read the [installation guide](#).
- If you do not know how to partition a hard disk, print and read this short [tutorial](#).
- Please take our [short survey](#) after installing 3.3.0.

Version	Medium	Image	Image Torrent	md5sum
3.3.0 (stable release)	CD-ROM	288 MB	torrent	3234ffcebfb2a28069cf3def41c95dec
3.2.1 (previous)	CD-ROM	256 MB	torrent	4c91ba7822cfa441d27755a7e7c4711d

- Decompress the downloaded file to get a .iso file and the Installation guide (same as above).
- Burn this bootable CD-image file to a CD-ROM.
- Reboot the computer with the CD-ROM device and follow the instructions in the installation guide.
- If you are using **VirtualBox** and have trouble booting the system, follow the instructions [here](#).

#### Official releases - ARM - SD card images

We have prebuilt images.

#### Table of Contents

- Download
  - Official releases - x86 - CD images
  - Official releases - ARM - SD card images
  - Development snapshots
  - Previous Versions
  - Known bugs

## Installing MINIX 3 on Oracle VM VirtualBox

**Step 1:** Download MINIX 3 ISO from [minix3.org](http://minix3.org)

minix\_R3.2.1-972156d.iso

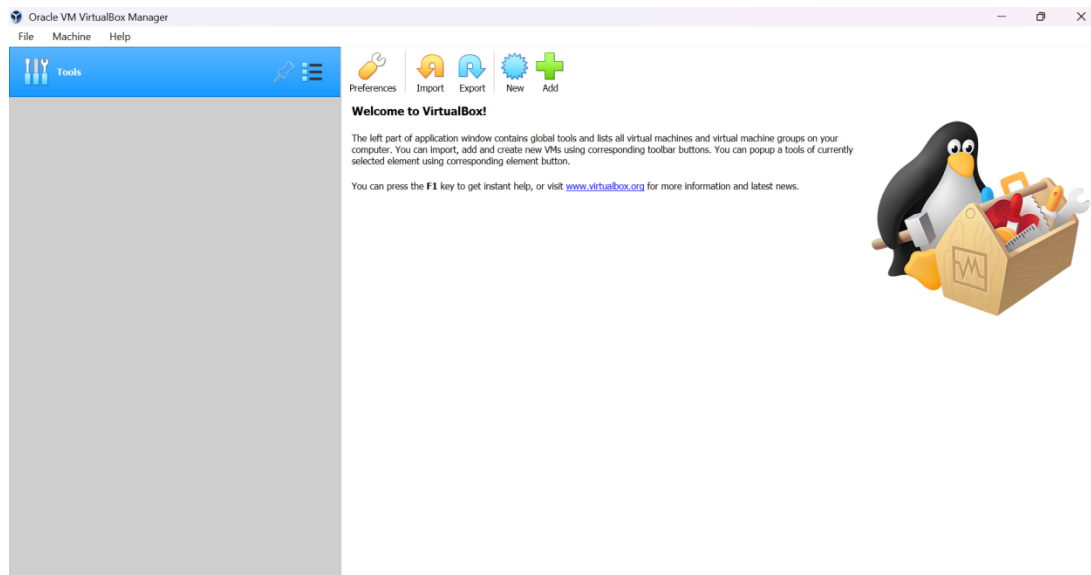
4/9/2025 7:49 PM

Compressed Archive ...

262,405 KB

## Step 2: I use oracle VM VirtualBox Virtual Environment Tools

**Download** from: [virtualbox.org](https://www.virtualbox.org)



**Step 3:** Open VirtualBox → Click **New** → Set name = "MINIX 3", Type = "Other", Version = "Other/Unknown"

?

×

← 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:

minix 3

Machine Folder:

C:\Users\hp\VirtualBox VMs

Type:


Other

▼

Version:

Other/Unknown

▼



Expert Mode

Next

Cancel

#### Step 4: Allocate 512 MB RAM

?


×

← 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 **256 MB**.



4 MB

16384 MB

512

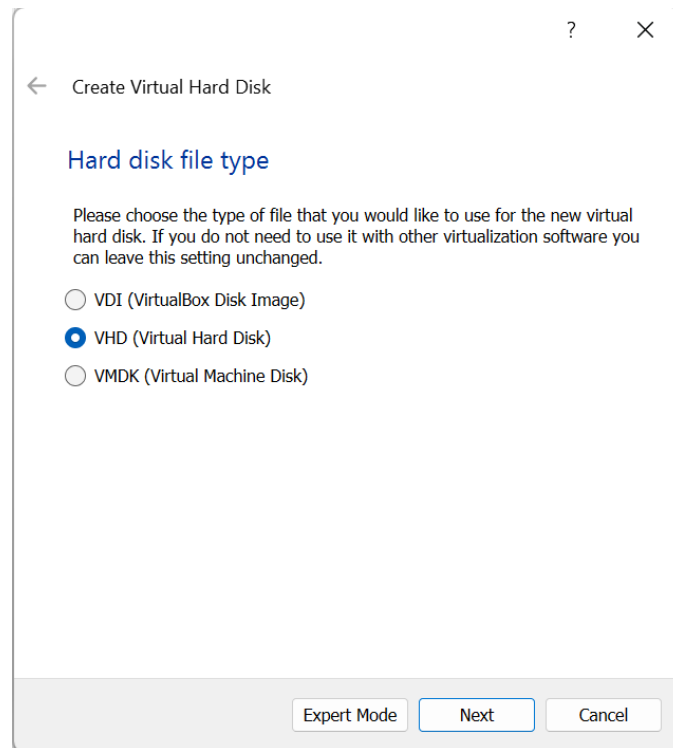
MB

Next

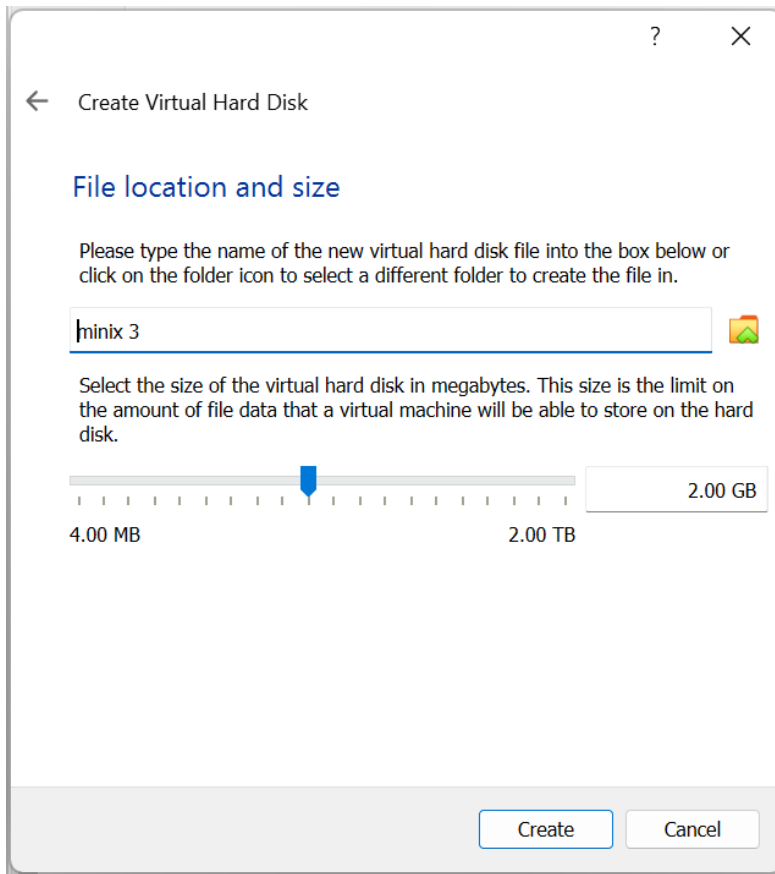
Cancel

#### Step 5: Create Virtual Hard Disk

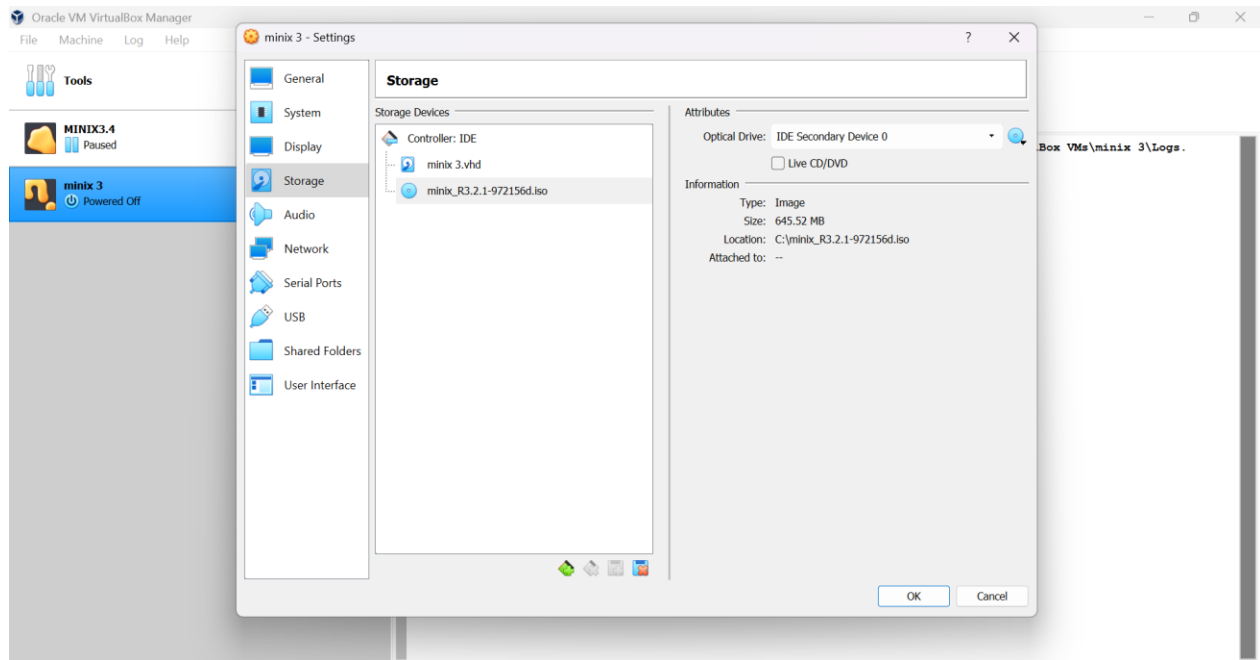
- Choose Create a virtual hard disk now
- File type: VDI (VirtualBox Disk Image)



**Step 6:** Storage allocated (recommended: 2–4 GB)



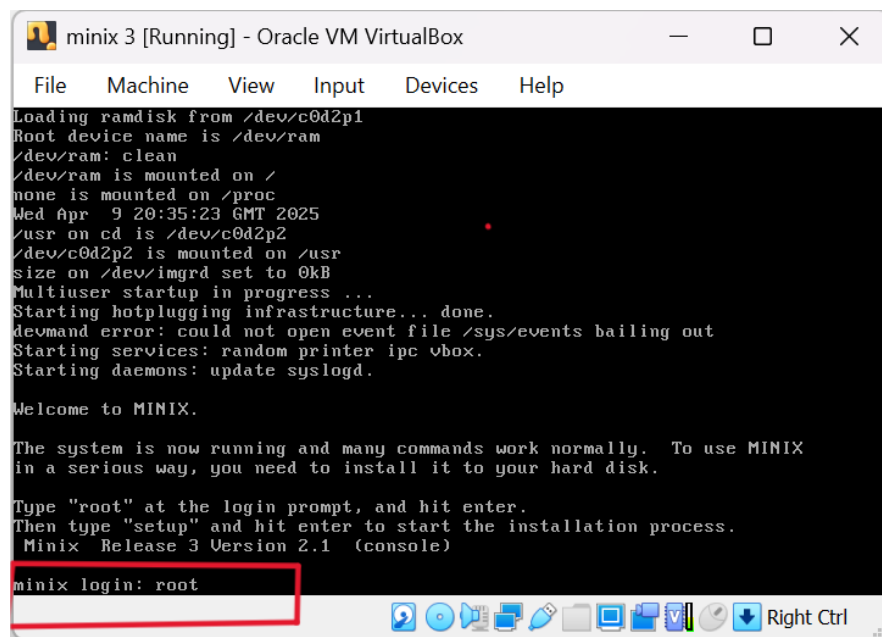
**Step 7:** In Settings → Storage → Add the MINIX ISO under Optical Drive



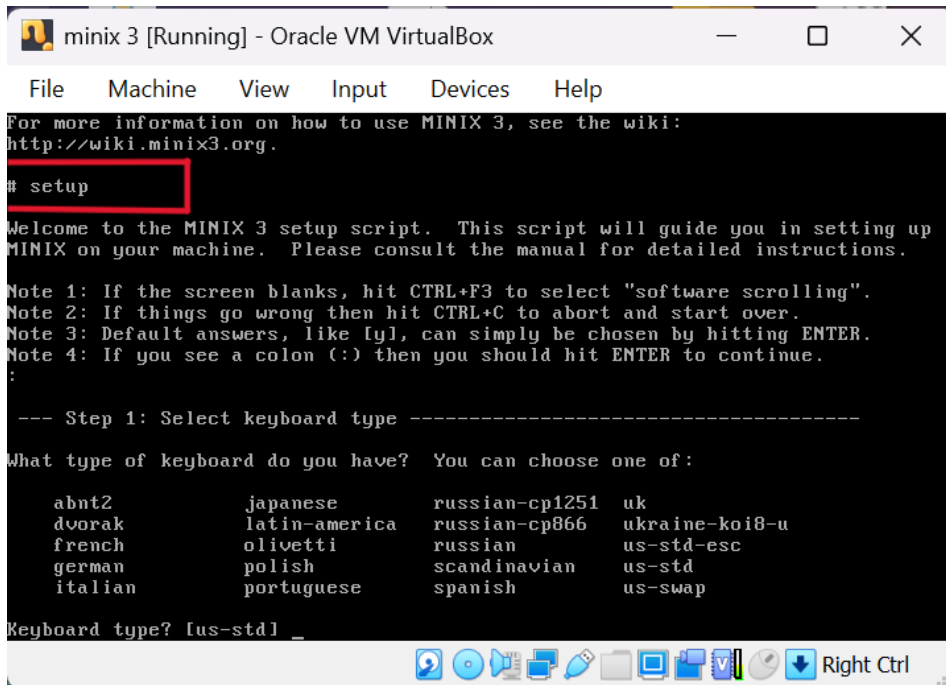
**Step 8: i.** Click Start in the virtual box

ii. When prompted, type: **root** (no password by default).

(First it only accept **root** as a value)



**Step 9:** Run the Installer by write **#setup**



```
minix 3 [Running] - Oracle VM VirtualBox
File  Machine  View  Input  Devices  Help
For more information on how to use MINIX 3, see the wiki:
http://wiki.minix3.org.
# setup
Welcome to the MINIX 3 setup script.  This script will guide you in setting up
MINIX on your machine.  Please consult the manual for detailed instructions.

Note 1: If the screen blanks, hit CTRL+F3 to select "software scrolling".
Note 2: If things go wrong then hit CTRL+C to abort and start over.
Note 3: Default answers, like [y], can simply be chosen by hitting ENTER.
Note 4: If you see a colon (:) then you should hit ENTER to continue.
:

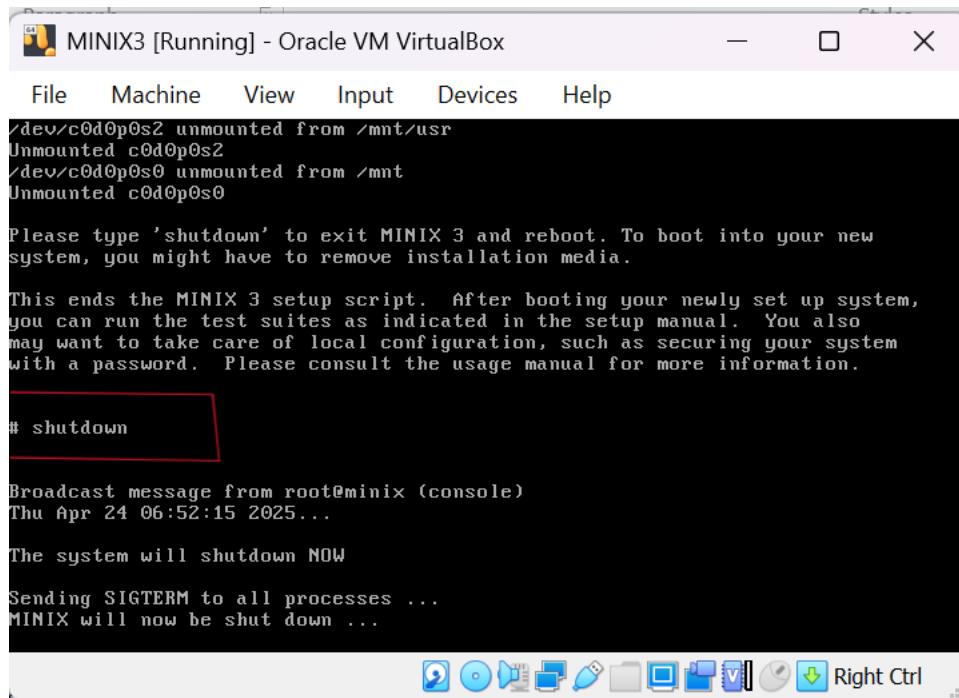
--- Step 1: Select keyboard type -----
What type of keyboard do you have?  You can choose one of:

    abnt2      japanese    russian-cp1251  uk
    dvorak     latin-america  russian-cp866   ukraine-koi8-u
    french     Olivetti      russian         us-std-esc
    german     polish       scandinavian    us-std
    italian    portuguese    spanish         us-swap

Keyboard type? [us-std] _
```

**Step 10:** After the setup completes type: **shutdown**





```
MINIX3 [Running] - Oracle VM VirtualBox
File Machine View Input Devices Help

/dev/c0d0p0s2 unmounted from /mnt/usr
Unmounted c0d0p0s2
/dev/c0d0p0s0 unmounted from /mnt
Unmounted c0d0p0s0

Please type 'shutdown' to exit MINIX 3 and reboot. To boot into your new
system, you might have to remove installation media.

This ends the MINIX 3 setup script. After booting your newly set up system,
you can run the test suites as indicated in the setup manual. You also
may want to take care of local configuration, such as securing your system
with a password. Please consult the usage manual for more information.

# shutdown

Broadcast message from root@minix (console)
Thu Apr 24 06:52:15 2025...

The system will shutdown NOW

Sending SIGTERM to all processes ...
MINIX will now be shut down ...
```

## Step 11:

### i. Go to **Settings > Storage** in VirtualBox.

Remove the ISO from the virtual CD drive.

Boot the VM again.

### ii. So instead of the `root` user, need to **create a new user account(using my name)** after installation ,follow the following step

- First Login as `root`
- Use the “**adduser username**” command
- Replace **username** with the desired username (e.g., `adduser hilina`).
- The `adduser` command will typically prompt you for:
  - \* A password for the new user.
  - \* Full name
  - \* Room number, Work Phone, Home Phone

