

Here is a step-by-step guide for installing VirtualBox and CentOS on a virtual machine:

Installing VirtualBox:

1. Download VirtualBox:

- Navigate to the <https://www.virtualbox.org/wiki/Downloads> page.
- Choose the appropriate version for your host operating system (e.g., Windows, macOS, Linux).
- Download the installer package.

2. Install VirtualBox

- Run the installer package.
- Follow the on-screen instructions to complete the installation process.
- Ensure that you also install the "VirtualBox Extension Pack" during the installation.

3. Launch VirtualBox

- Open VirtualBox after the installation is complete.

Installing CentOS Image:

1. Download CentOS ISO:

- Go to the https://centos.mirror.net.in/centos/7.9.2009/isos/x86_64/CentOS-7-x86_64-DVD-2009.iso page.
- Choose the desired CentOS version and download the ISO image.

2. Create a New Virtual Machine:

- Open VirtualBox.
- Click on "New" to create a new virtual machine.
- Name your virtual machine and select "Linux" as the type and "Red Hat (64-bit)" as the version.

3. Configure Memory:

- Allocate an appropriate amount of memory for the virtual machine. (Recommended: 2048 MB or higher)

4. Create a Virtual Hard Disk:

- Choose to create a virtual hard disk now.
- Select the hard disk file type and choose dynamically allocated or fixed size, depending on your preference.

5. Set Virtual Hard Disk Size:

- Allocate sufficient storage space for the virtual hard disk. (Recommended: 20 GB or more)

6. Mount CentOS ISO:

- With the virtual machine selected, click on "Settings."
- Go to the "Storage" tab.
- Under the "Controller: IDE" section, click on the empty disk icon next to "Controller: IDE."
- Choose "Add Optical Drive" and select the CentOS ISO you downloaded.

7. Start the Virtual Machine:

- Select your virtual machine in VirtualBox and click on "Start."
- The CentOS installation process should begin.

8. Install CentOS:

- Follow the on-screen instructions to install CentOS.
- Choose language, time zone, and create a user during the installation.

9. Complete Installation:

- Once the installation is complete, eject the ISO from the virtual optical drive.
- Restart the virtual machine.

10. Post-Installation Setup:

- Log in to CentOS with the credentials you created during the installation.
- Now you have successfully installed VirtualBox and set up a CentOS virtual machine. Adjust the settings and configurations based on your specific requirements.