Using VirtualBox to run the development image

This guide will walk you through creating a virtual machine that you can use to run/test the images that you create for the various machine problems.

This guide assumes you have VirtualBox image installed. If you don’t have VirtualBox, install that first. The instructions are the same for VirtualBox on Windows as well as Linux.

Part-A walks you through creating the virtual machine. Part-B walks you through running an image.

A. Creating the virtual machine

1. Create a new Virtual Machine by pressing the New button on the VirtualBox machine manager.

![VirtualBox Manager](image)

2. Give the machine a name.
   a. Operating System = Other
   b. Version = Other / Unknown
   c. Click Next to proceed.
VM Name and OS Type

Enter a name for the new virtual machine and select the type of the guest operating system you plan to install onto the virtual machine.

The name of the virtual machine usually indicates its software and hardware configuration. It will be used by all VirtualBox components to identify your virtual machine.

Name: [Name]

OS Type:

Operating System: [Other]
Version: [Other/Unknown]
3. In the memory screen, you can set the required amount of memory. Click Next to proceed to the next step. (Note: Most machine problems in the class expect a max of 32 MB)

4. The next screen should let you setup a virtual hard-disk. Choose “Create a new Harddisk”. Then click Next to continue.
5. The next screen should let you configure the size of the hard disk. This can be any size you want. Remember to store it in a known location. Click Next when ready.

6. The next screen should be the disk-summary page. Click Finish if you are happy with the settings.
7. You should get the Virtual Machine summary page. Click Finish to create the machine.

8. This creates the machine. Now, we need to adjust the settings to install a floppy drive controller. Select the machine, and then click on settings in the virtual machine manager.
9. On the settings page:
   a. Select Storage from the left panel.
   b. On the right panel, under storage tree, click on “Add Controller Icon” (see green arrow)
   c. Select “Add Floppy Controller” from the drop down menu.

10. You should now see “Floppy Controller” on the storage tree.
    a. Click on the floppy icon (pink circle) to add a floppy drive to the system.
    b. Click “Leave Blank” on the resulting Question.
You should now see a new floppy drive created under Floppy Controller.

Click Ok to exit the settings page. Your virtual machine is now ready to accept the image you wish to test.
B. Using VirtualBox to run the image.

To run your image, you need to mount the floppy image that you create and then tell the machine to boot this image.

1. Select settings for the virtual machine you created. (410_virtual_test) in this case.

2. Under the settings page:
   a. Select the storage option on the left pane.
   b. Select the Floppy disk option under the storage tree.
   c. From the resulting options, select the option “Choose a virtual floppy disk file” by clicking the blue floppy icon.
d. Navigate to the image you want to mount.

![Image of file management interface]

You should see your file mounted under the floppy controller. Click OK to close the settings page.

![Image of virtual machine settings]

e. You should see your file mounted under the floppy controller. Click OK to close the settings page.
3. Now, start the machine by clicking the Start button.

4. You should see the machine start up and bring up the GRUB screen.
5. Press enter to boot your image. It should run and give your output.

6. To stop the machine, either click on the Close button (X) or Machine>Quit. When prompted, choose “Power off the machine”.