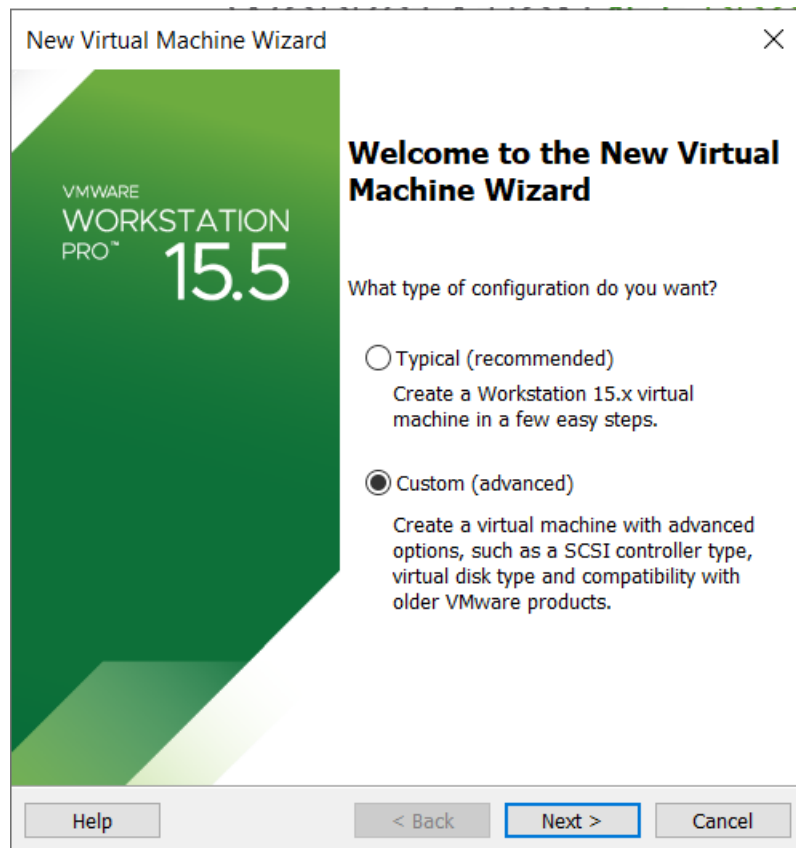


OSG202 – LAB1

I) Install CentOS 6.5 on VMWare Workstation.

- 1) Get the VMWare Workstation 15.0 installation from its official website.
- 2) Get the ISO file for CentOS 6.5 from its official website.
- 3) Run VMWare Workstation.
- 4) On the Home tab, click on **Create a New Virtual Machine**.
- 5) Choose **Custom** and then click **Next**.



6) Click **Next** and then choose **I will install the operating system later**, click **Next**.

The screenshot shows the 'New Virtual Machine Wizard' window, specifically the 'Guest Operating System Installation' step. The window has a title bar with 'New Virtual Machine Wizard' and a close button. Below the title bar, the section is titled 'Guest Operating System Installation' with a subtitle: 'A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?'. The main area is titled 'Install from:' and contains three radio button options. The first option is 'Installer disc:', with a dropdown menu showing 'DVD RW Drive (F:)'. The second option is 'Installer disc image file (iso):', with a text box showing 'E:\FPTU\2020_Semester2_SUMMER\OSG202\CentOS' and a 'Browse...' button. The third option is 'I will install the operating system later.', which is selected with a radio button. Below this option, it says 'The virtual machine will be created with a blank hard disk.' At the bottom of the window, there are four buttons: 'Help', '< Back', 'Next >' (which is highlighted with a blue border), and 'Cancel'.

New Virtual Machine Wizard

Guest Operating System Installation
A virtual machine is like a physical computer; it needs an operating system. How will you install the guest operating system?

Install from:

☐ Installer disc:
DVD RW Drive (F:)

☐ Installer disc image file (iso):
E:\FPTU\2020_Semester2_SUMMER\OSG202\CentOS Browse...

☒ I will install the operating system later.
The virtual machine will be created with a blank hard disk.

Help < Back Next > Cancel

7) Choose **Linux**, version **CentOS 6** on the next screen, then click **Next**.

8) Choose your Virtual machine name and its Location. Then click **Next**.

New Virtual Machine Wizard

Name the Virtual Machine
What name would you like to use for this virtual machine?

Virtual machine name:
CentOS 6.5 - Lab

Location:
D:\Virtual Machine Browse...

The default location can be changed at Edit > Preferences.

< Back Next > Cancel

9) Choose number of processors and cores per processor (1 each by default). Click **Next**.

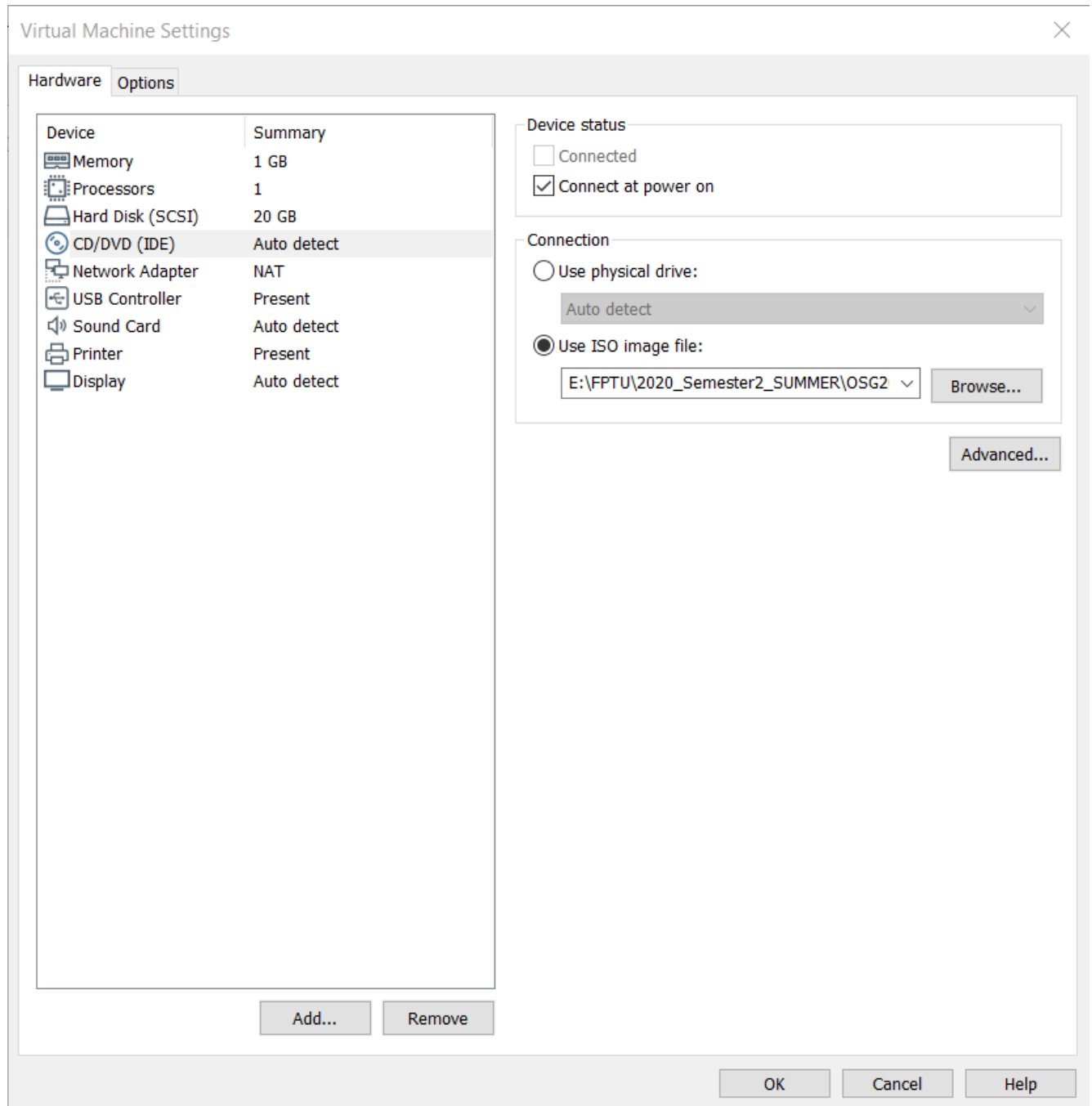
10) Specify the amount of memory allocated to the virtual machine (by default: 1024 MB). Click **Next**.

11) Choose **NAT** for Network connection. Then click **Next**.

12) Click **Next** 5 times for the recommend options for your virtual machine. Finally, click **Finish**.

13) On the left navigation, click on the name of your new virtual machine. Then click on **CD/DVD (IDE)** in the **Devices** section on the right hand.

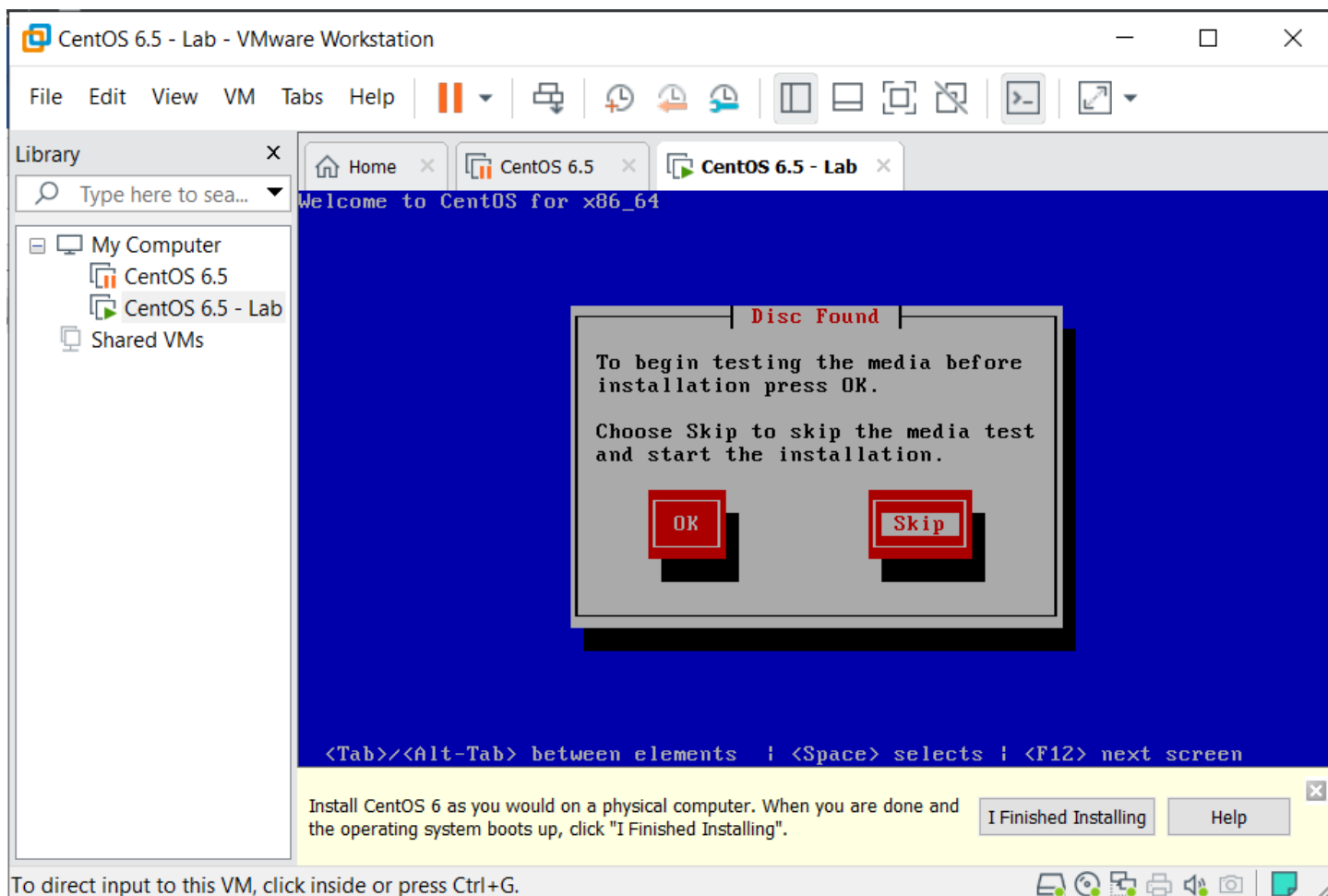
14) *Virtual Machine Settings* should appear. Choose **Use ISO image file** on the right side. Click *Browse...* and point to the destination of your ISO file of CentOS 6.5. Then click **OK**.



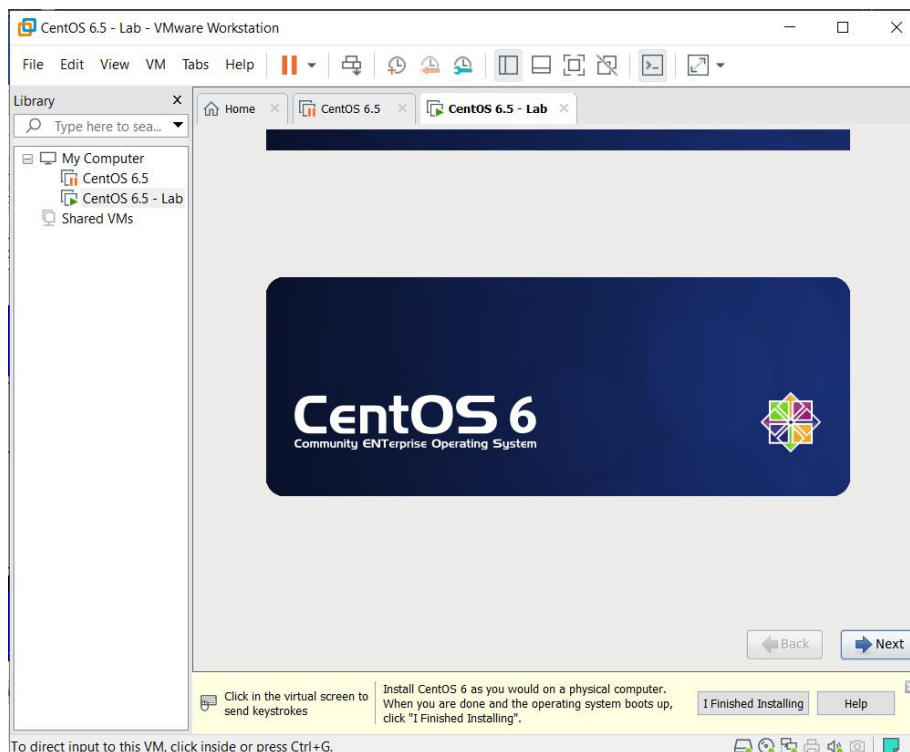
15) After that, click on *Power on this virtual machine* to continue setup.

16) Click on the screen of the VM and press Enter to choose *Install or upgrade an existing system*.

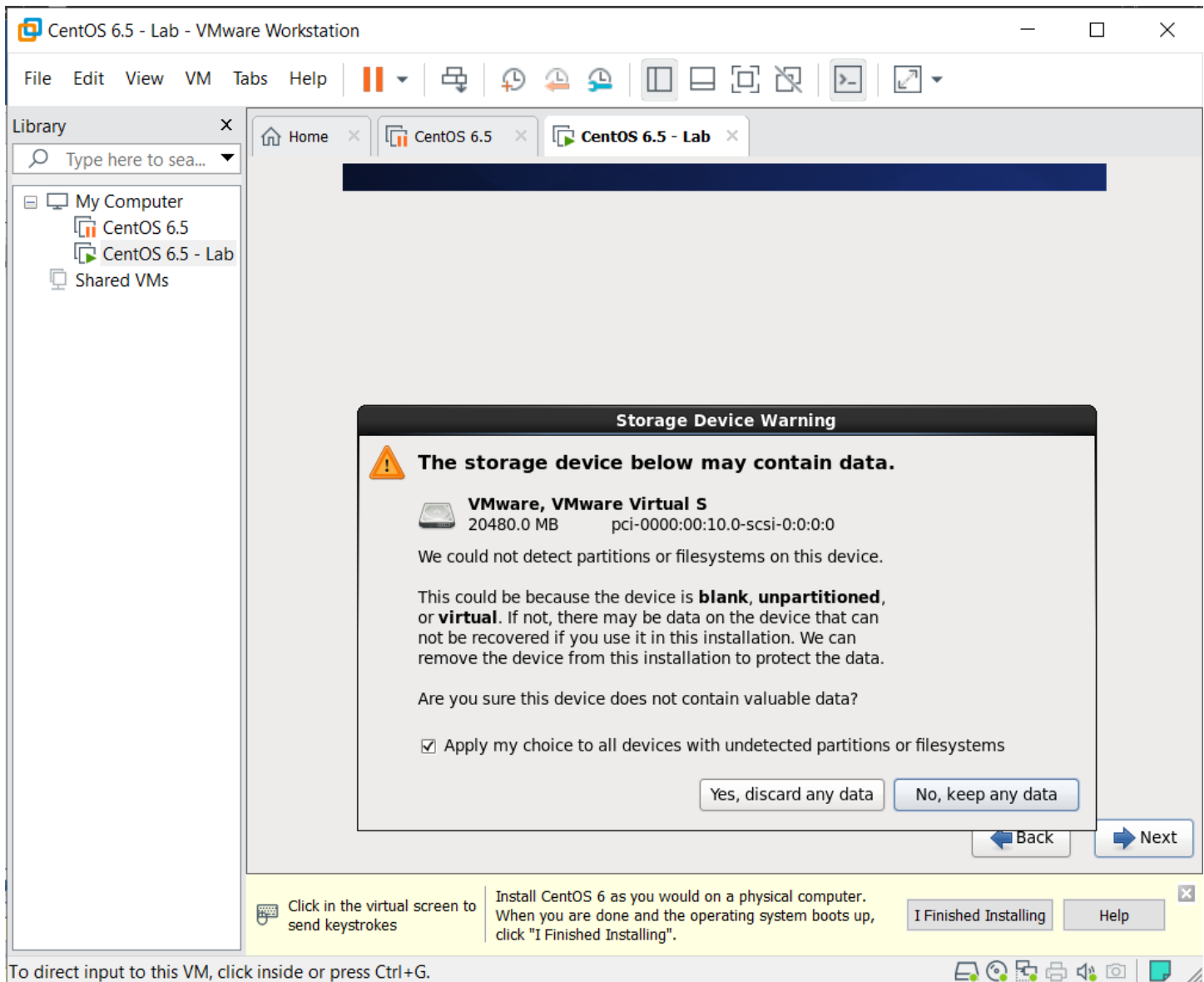
17) Press Tab to choose **Skip** and then press Space.



18) Click **Next** on the next screen.



19)Click **Next** 3 times to make the settings default. Then click to choose **Yes, discard any data.**



20)Type in your Hostname (Computer's name). Then click **Next**.

21)Choose your timezone then click **Next**.

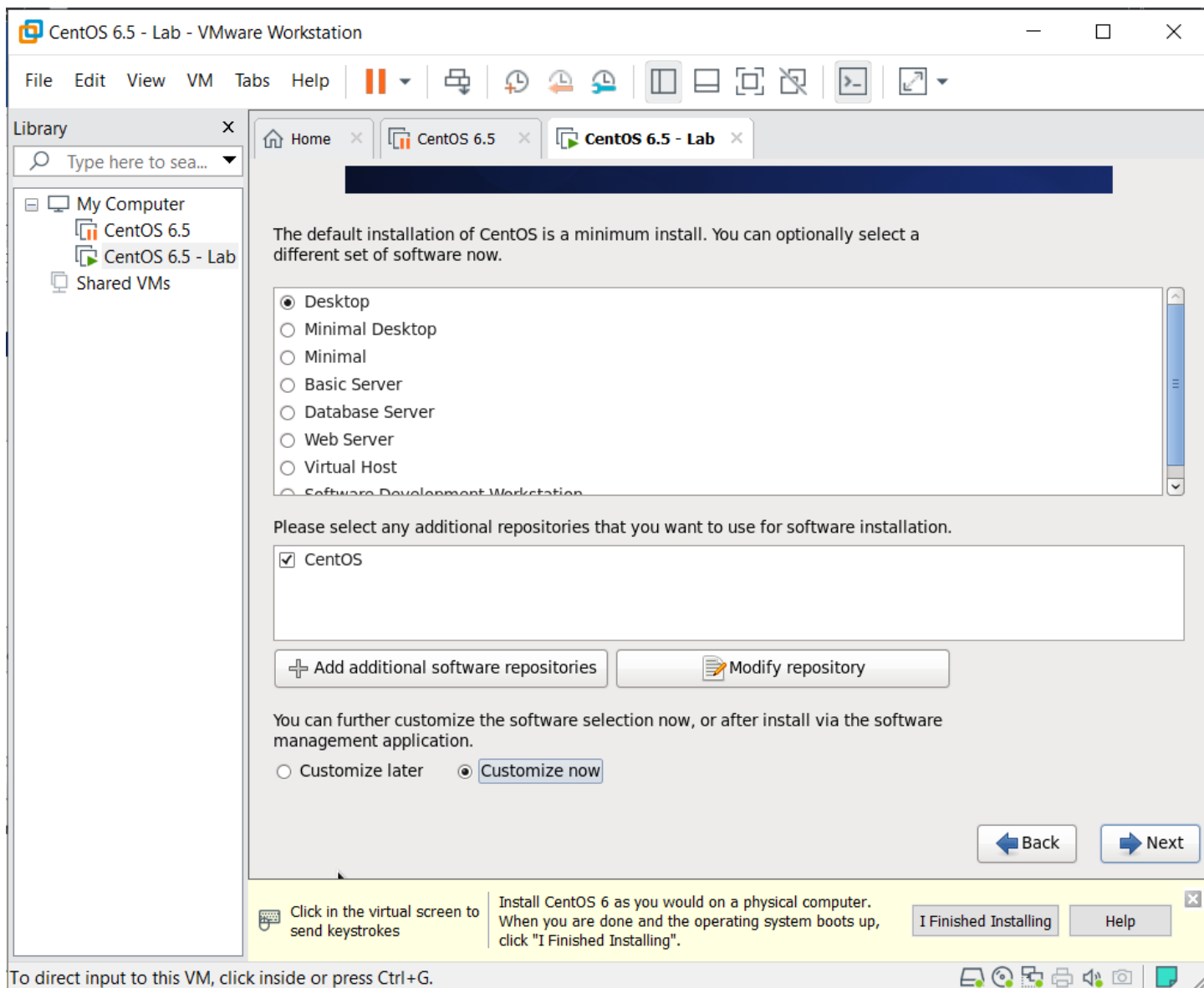
22)Choose a password for the **root** user. Click **Next**.

23)On the next screen, choose **Create Custom Layout** to configure your disk space on your own. Click **Next**.

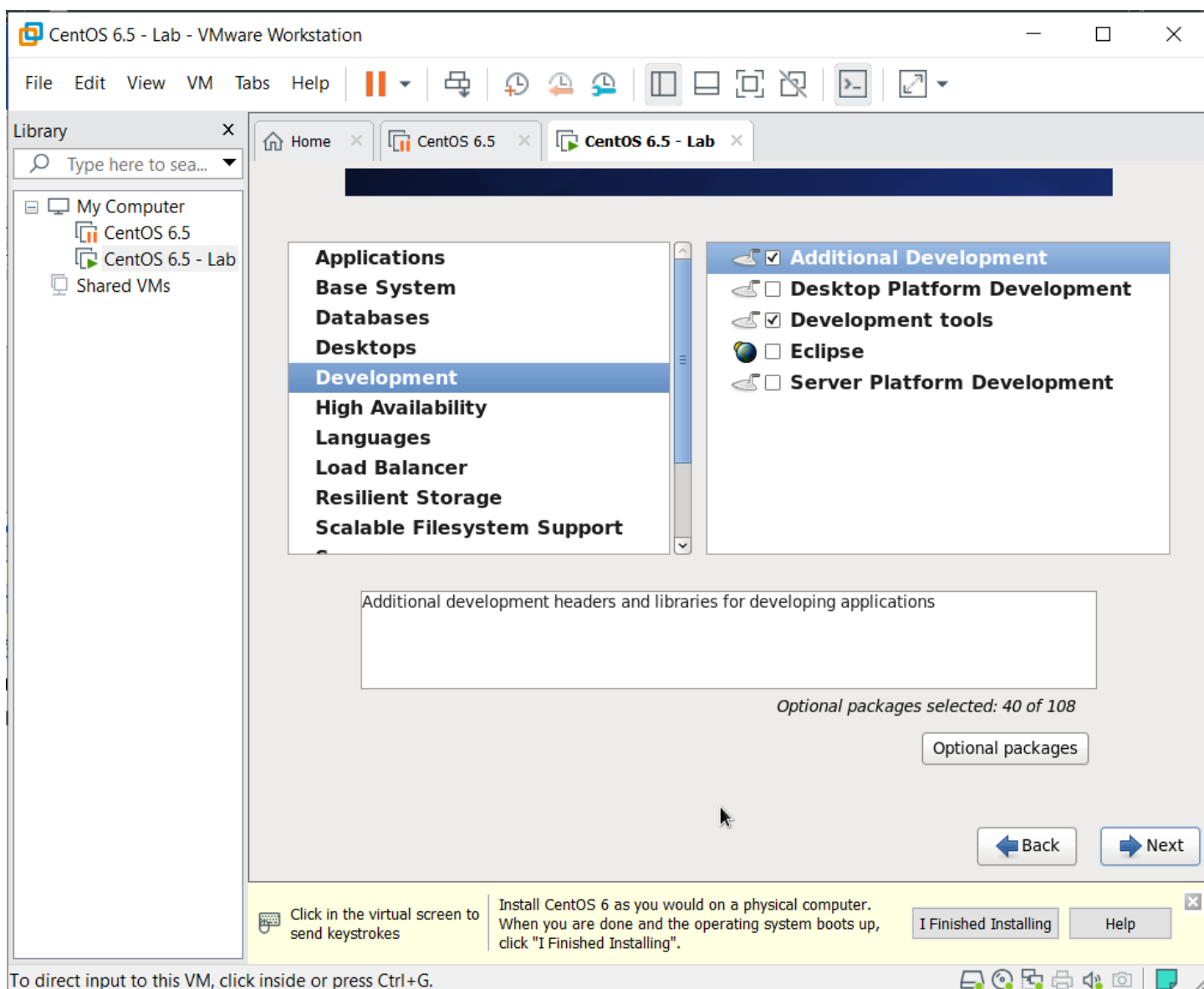
24)On the next screen, click on *Free* space, click **Create**, and **Create** one more time. Choose the mount point, file system type and size for the **boot**, **swap** and **/** memory space.

25)After configuring all, click **Next**, then click **Format** and **Write changes to disk**.

26)Click **Next**, then click on *Customize now* option on the next screen and click **Next** one more.



27) On the left navigation, click on **Development**, then choose **Additional Development** and **Development Tools** in order to run C program afterward. Then click **Next**.

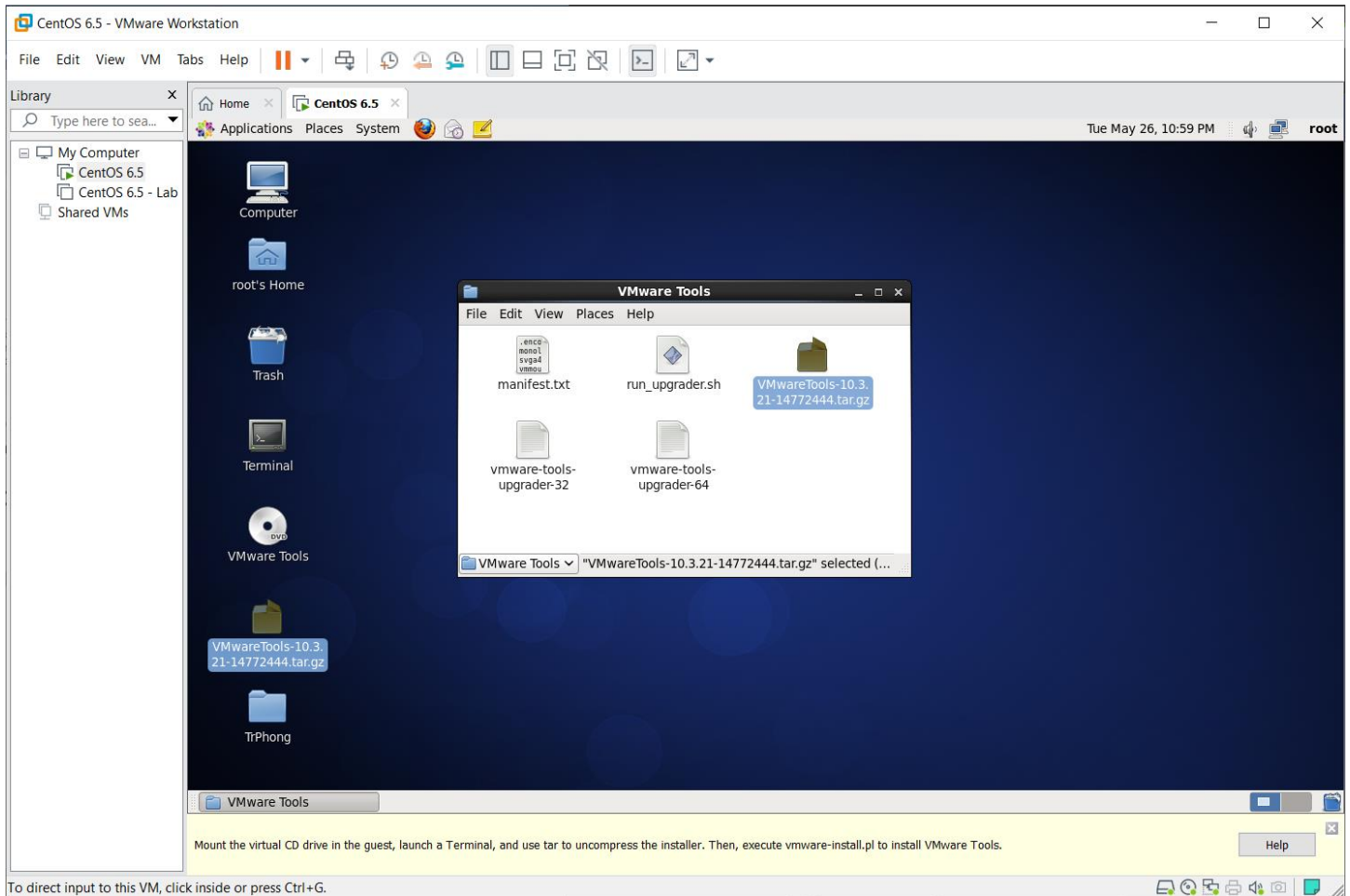


28) Wait for the install completion and the VM power on.

29) Log in the *root* user with your password.

II) Instal VMWare Tools on CentOS 6.5.

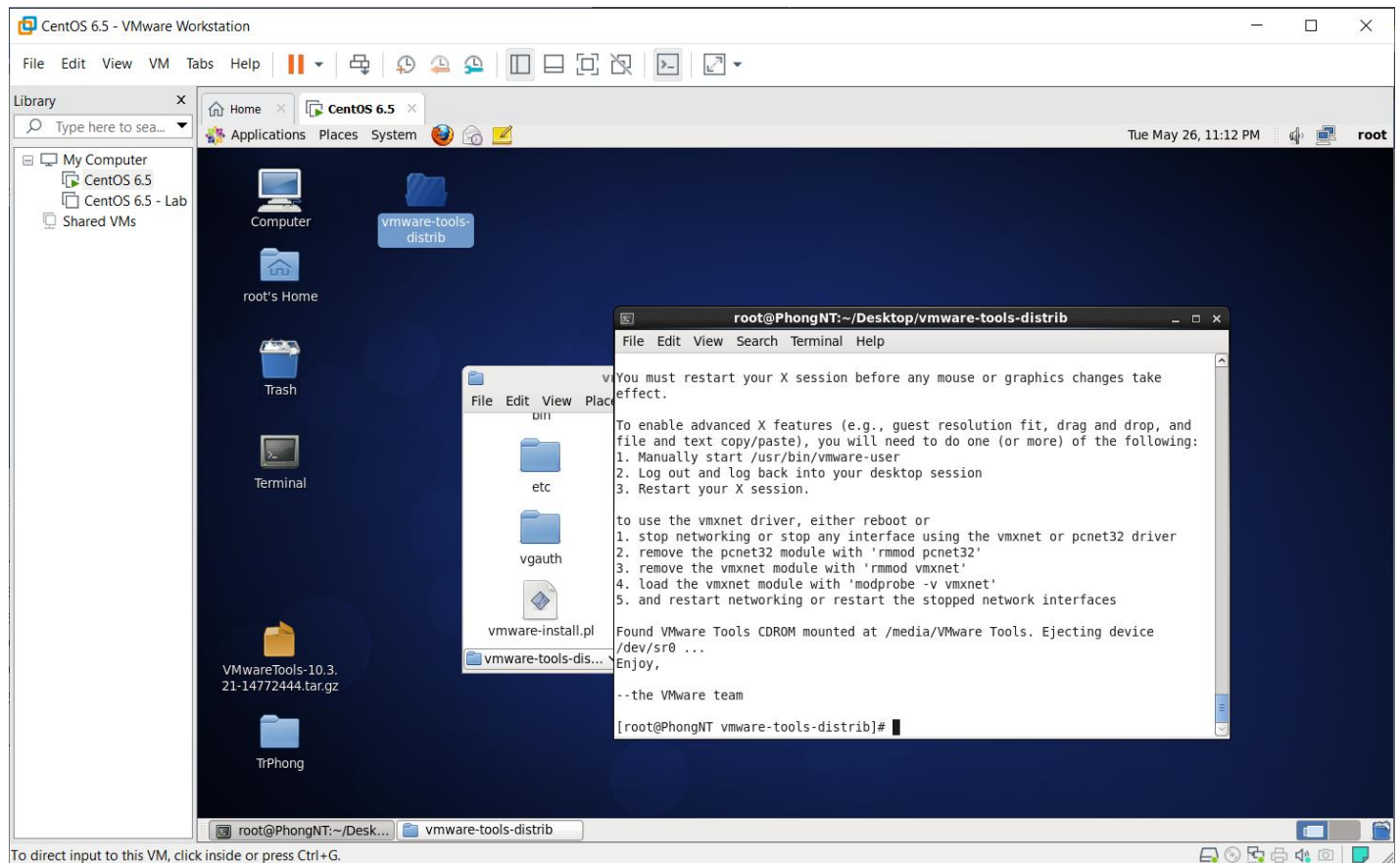
- 1) Click on VM tab on the left corner of the VMWare screen, choose **Install VMware Tools**.
- 2) The folder *Vmware Tools* should appear. Drag the file *VMwareTools-10.3.21-14772444.tar.gz* to Desktop.



- 3) Open the Terminal point to Desktop for the *root* user.
- 4) Type in `tar -xvzf VMwareTools-10.3.21-14772444.tar.gz` and press Enter. After that, your Desktop should have the folder *vmware-tools-distrib*.
- 5) Type in `cd vmware-tools-distrib` and press Enter.
- 6) Type in `./vmware-install.pl` and press Enter to start installation.

7) Press Enter for any question to set by default.

8) Successfully!



To direct input to this VM, click inside or press Ctrl+G.

III) Run a C source code on Terminal in CentOS (Do this after having installed VMWare Tools).

- 1) Prepare a C source file.
- 2) Drag that C source file from your real computer to your Virtual Machine Desktop.
- 3) Open Terminal pointing to Desktop.
- 4) Type in `gcc -c main.c` (where `main.c` is the name of your C source code file) then press Enter.
- 5) Type in `gcc main.o -o main` (where `main.c` is the name of your C source code file) then press Enter.
- 6) Type in `./main` and press Enter to run that Source code!
- 7) Enjoy the code!

