

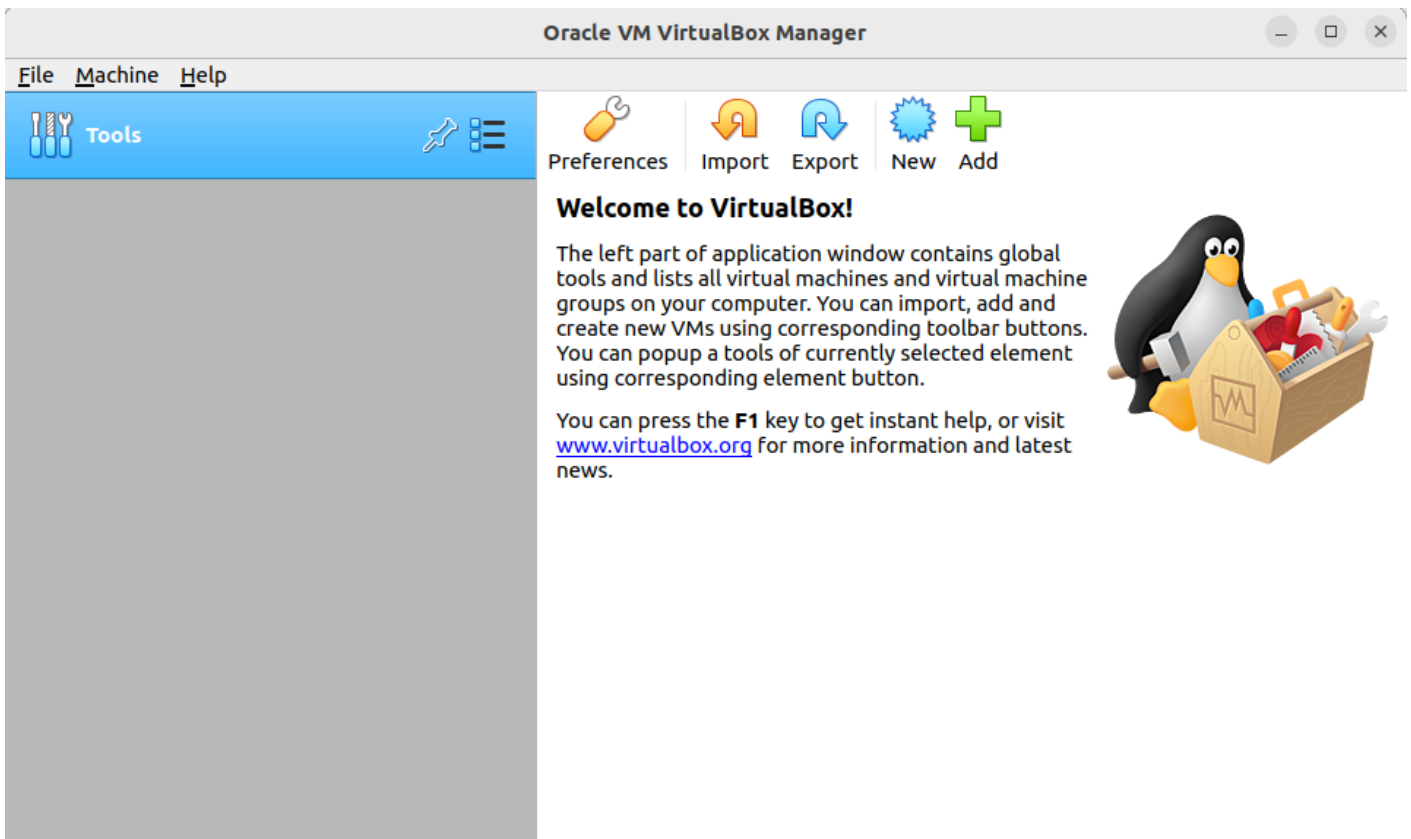
Section 5: Lets Build a VM

Why Are We Building a VM?

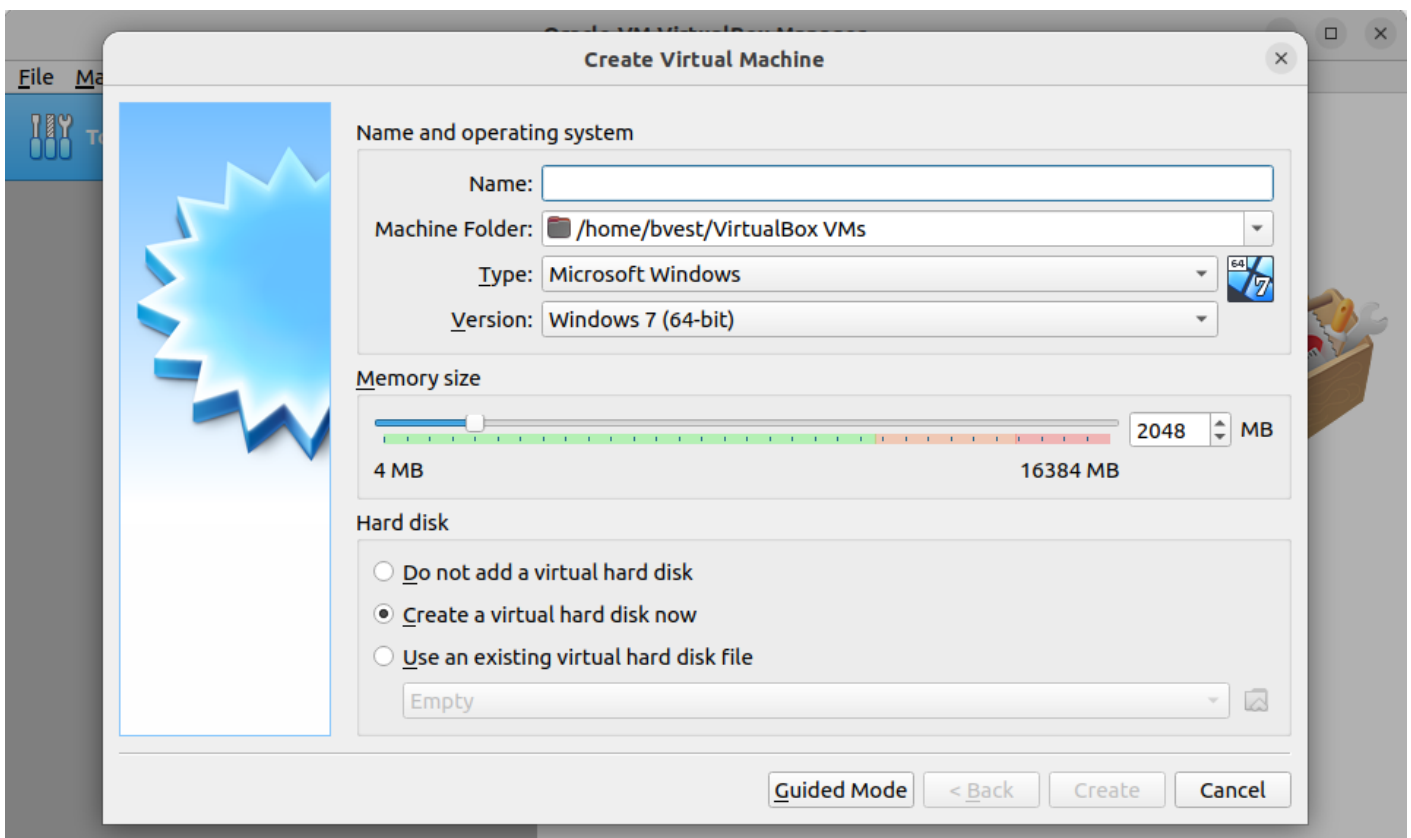
A virtual machine (VM) is essentially a computer within your computer, running on top of your existing operating system. It allows you to create an isolated environment where you can install and run different operating systems and software without affecting your main system. For our LOGG stack project, using a VM gives us the flexibility to experiment and configure each component in a controlled space. It's like having a sandbox where you can build, test, and tweak your setup without any risk to your primary machine. By allocating specific resources like CPU, memory, and storage, we ensure that the VM can efficiently handle the tasks we'll throw at it, all while keeping your main system free from potential conflicts.

Lets Get Started

At this point, you should have VirtualBox installed on your system. Upon launching the application, you will be presented with an interface similar to the one shown below. If you are already familiar with VirtualBox, you can proceed with the following steps. Our goal is to create a virtual machine configured with 4 processor cores, 4GB of RAM, and 40GB of hard drive space.

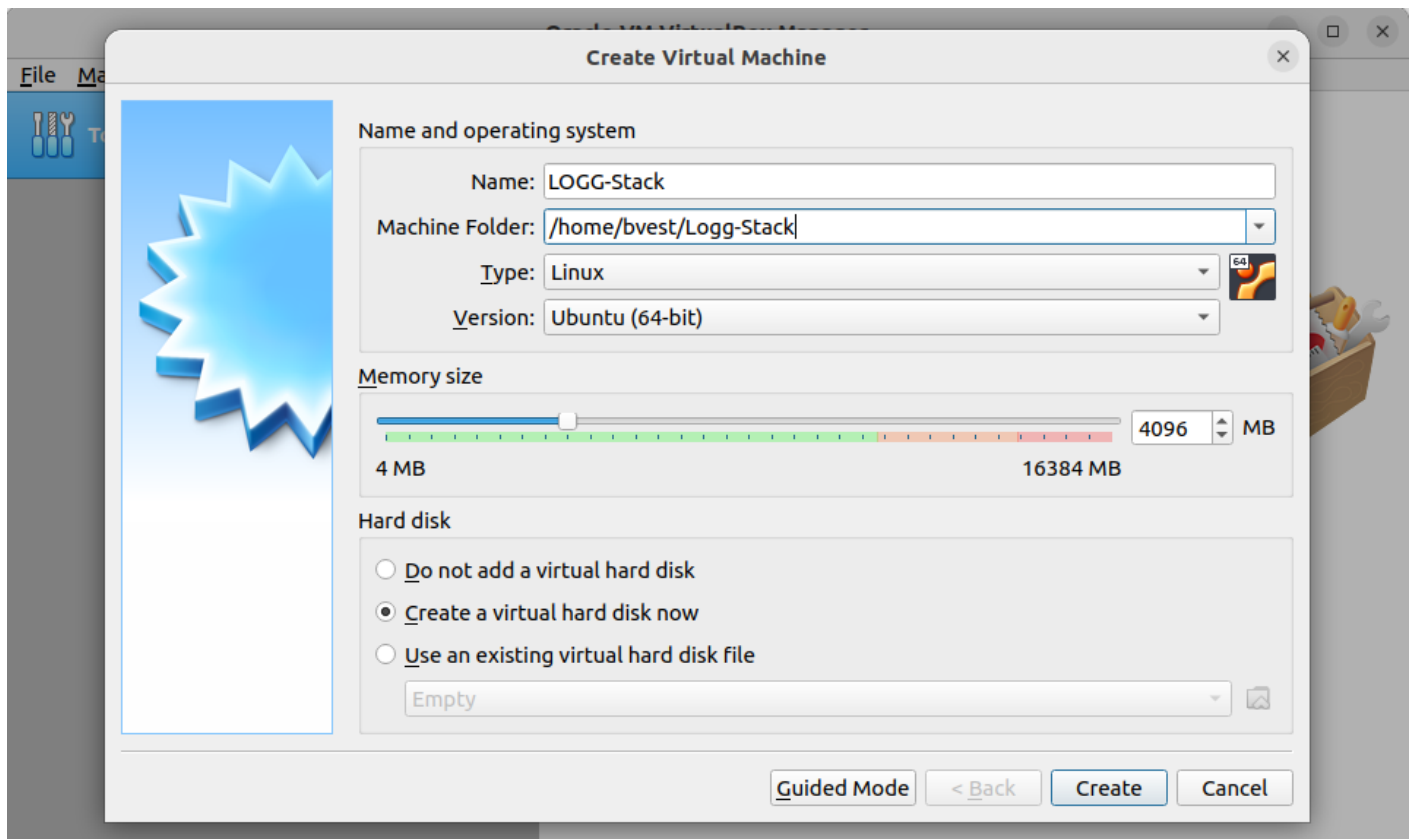


To get started, here we will click new. Which will present you with the screen below.



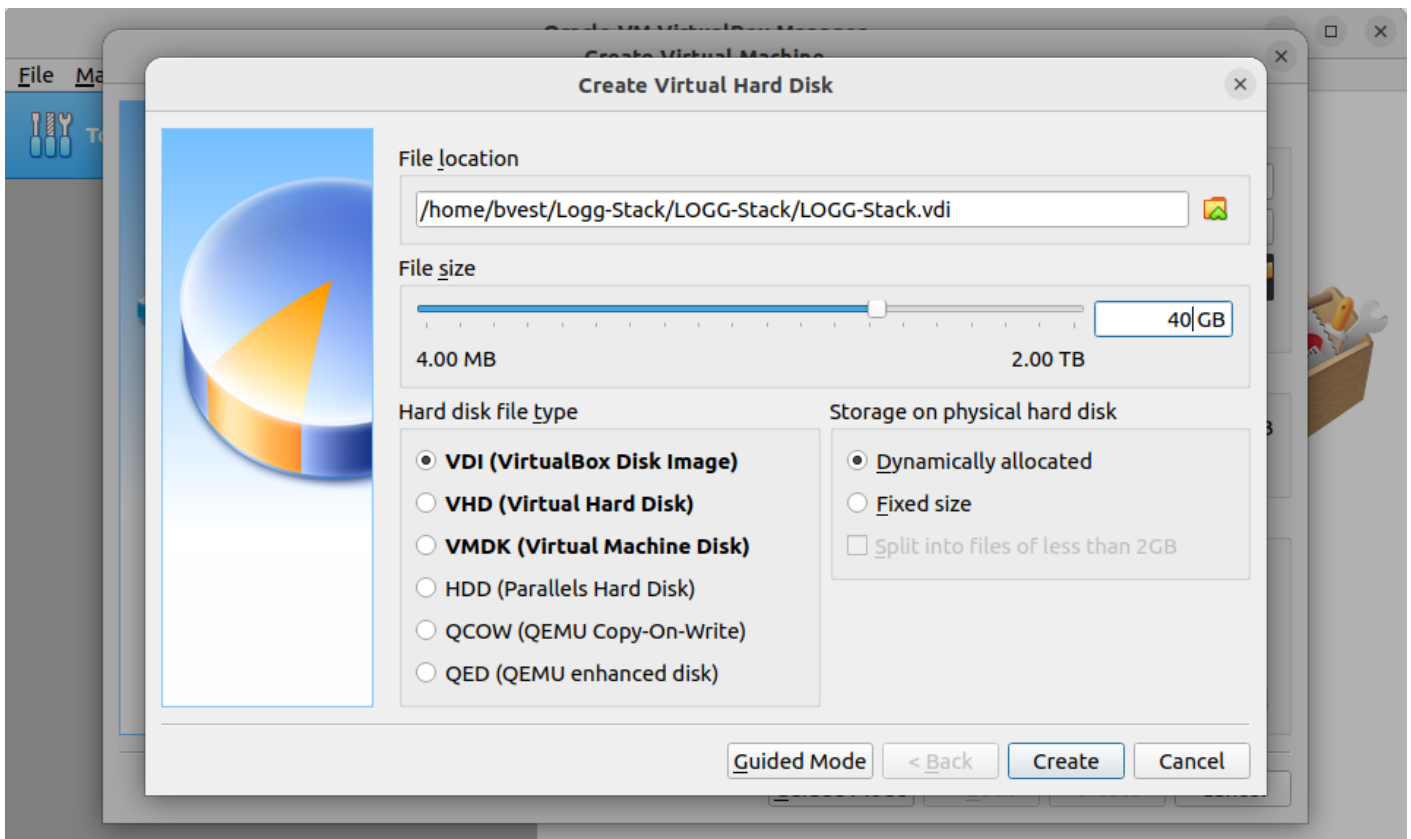
Let's begin by configuring our virtual machine. For this project, we'll name the VM **LOGG-Stack**. In the *Machine Folder* field, set the directory to **LOGG-Stack-VM** to keep your files organized. In the *Type* dropdown menu, select **Linux**, and in the *Version* dropdown, choose **Ubuntu (64-bit)**. Next,

set the memory allocation to **4096 MB** (which is roughly 4 GB of RAM). You can either type this value directly or use the slider to adjust it. Once these settings are correctly configured, the setup screen should resemble the one shown below.

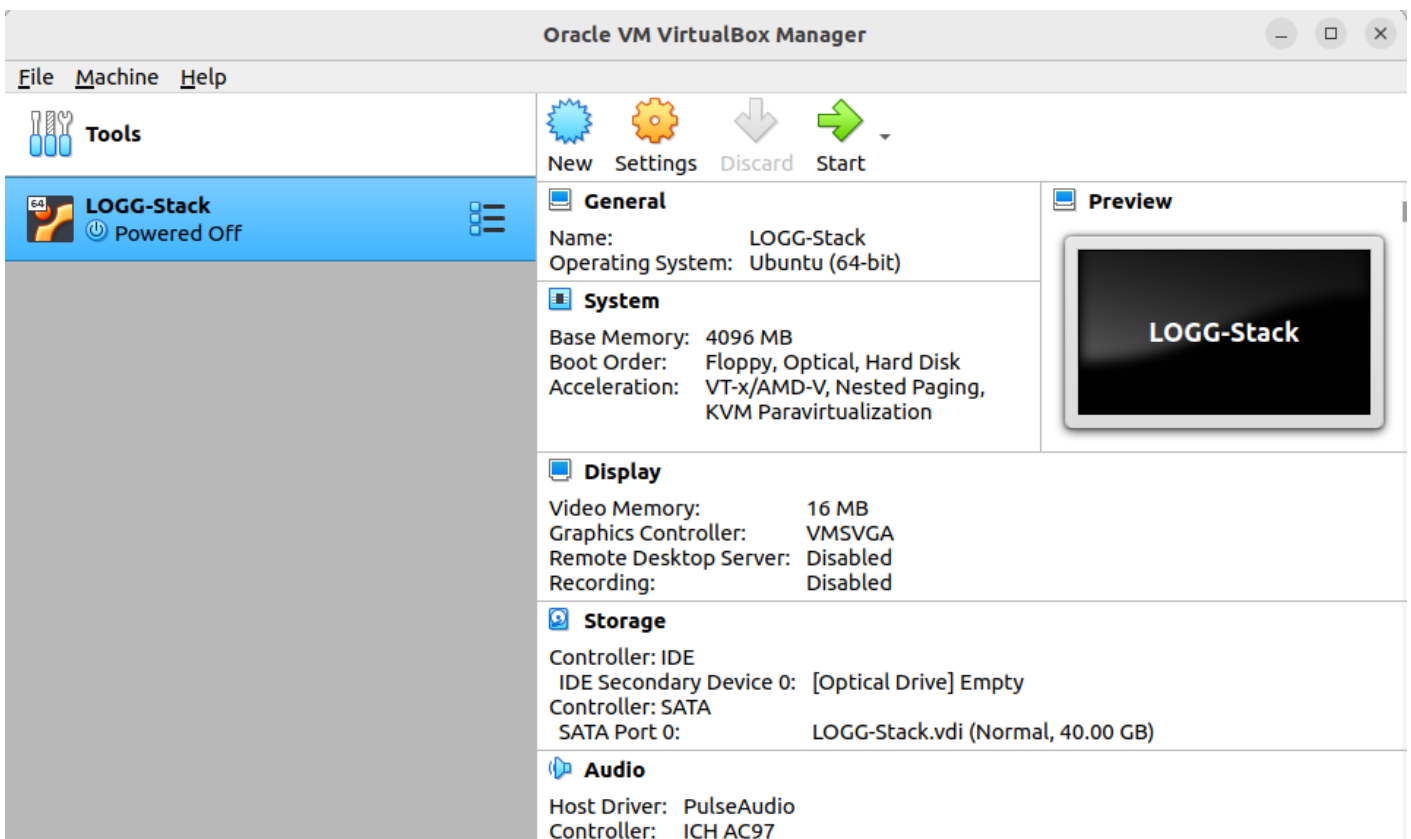


When you have all of this setup click the Create button and lets move on to the next steps.

After clicking "Create," you will be directed to the virtual hard disk creation screen. This screen presents several options, most of which can be left at their default settings. However, it's important to allocate more space for this VM than the default 10GB. To do this, either type in **40GB** or use the slider to adjust the disk size accordingly, as shown below.



Once you click "Create," the setup process will complete fairly quickly, and you'll be returned to the main VirtualBox interface. You should now see our newly created VM, **LOGG-Stack**, listed and ready for launch. The setup process is straightforward, and your virtual machine is now prepared for the next steps in our project.



Although our virtual machine is now set up, we're not quite ready to launch it just yet. Before we proceed, it's important to configure the VM to ensure it meets the specific requirements for our project. Let's move on to Section 6, where we'll walk through the configuration steps necessary to optimize the VM.

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