

NETWORKING & SYSTEM ADMINISTRATION LAB**Experiment No.: 1****Aim**

Install the latest version of Ubuntu on an Oracle VM VirtualBox.

Procedure

- Step 1: Download VirtualBox for Windows and install it on the computer.
Step 2: Download the Ubuntu ISO file you want to install from the Ubuntu download page.
Step 3: Open VirtualBox and select New in the top taskbar.
Output



Step 4: Give VM a name, choose Linux and then choose Ubuntu as the Version and select Next.


← 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:

Machine Folder:

Type: 

Version:


Step 5: Choose how much RAM you want to assign to the virtual machine and select Next. The recommended minimum is 1024 MB

← 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 **1024** MB.

 MB

4 MB 8192 MB

Step 6: Choose Create a virtual hard disk now and select Create.

← Create Virtual Machine

Hard disk

If you wish you can add a virtual hard disk to the new machine. You can either create a new hard disk file or select one from the list or from another location using the folder icon.

If you need a more complex storage set-up you can skip this step and make the changes to the machine settings once the machine is created.

The recommended size of the hard disk is **10.00 GB**.

☐ Do not add a virtual hard disk

☒ Create a virtual hard disk now

☐ Use an existing virtual hard disk file

Empty

Create Cancel

Step 7: Choose VDI (VirtualBox Disk Image) and select Next.

← Create Virtual Hard Disk

Hard disk file type

Please choose the type of file that you would like to use for the new virtual hard disk. If you do not need to use it with other virtualization software you can leave this setting unchanged.

☒ VDI (VirtualBox Disk Image)

☐ VHD (Virtual Hard Disk)

☐ VMDK (Virtual Machine Disk)

Expert Mode Next Cancel

Step 8: Choose Fixed size for the storage type and select Next.

← Create Virtual Hard Disk

Storage on physical hard disk

Please choose whether the new virtual hard disk file should grow as it is used (dynamically allocated) or if it should be created at its maximum size (fixed size).

A **dynamically allocated** hard disk file will only use space on your physical hard disk as it fills up (up to a maximum **fixed size**), although it will not shrink again automatically when space on it is freed.

A **fixed size** hard disk file may take longer to create on some systems but is often faster to use.

☒ Dynamically allocated
☐ Fixed size

Next Cancel

Step 9: Choose how much space you wish to set aside for Ubuntu and select Create.

← Create Virtual Hard Disk

File location and size

Please type the name of the new virtual hard disk file into the box below or click on the folder icon to select a different folder to create the file in.

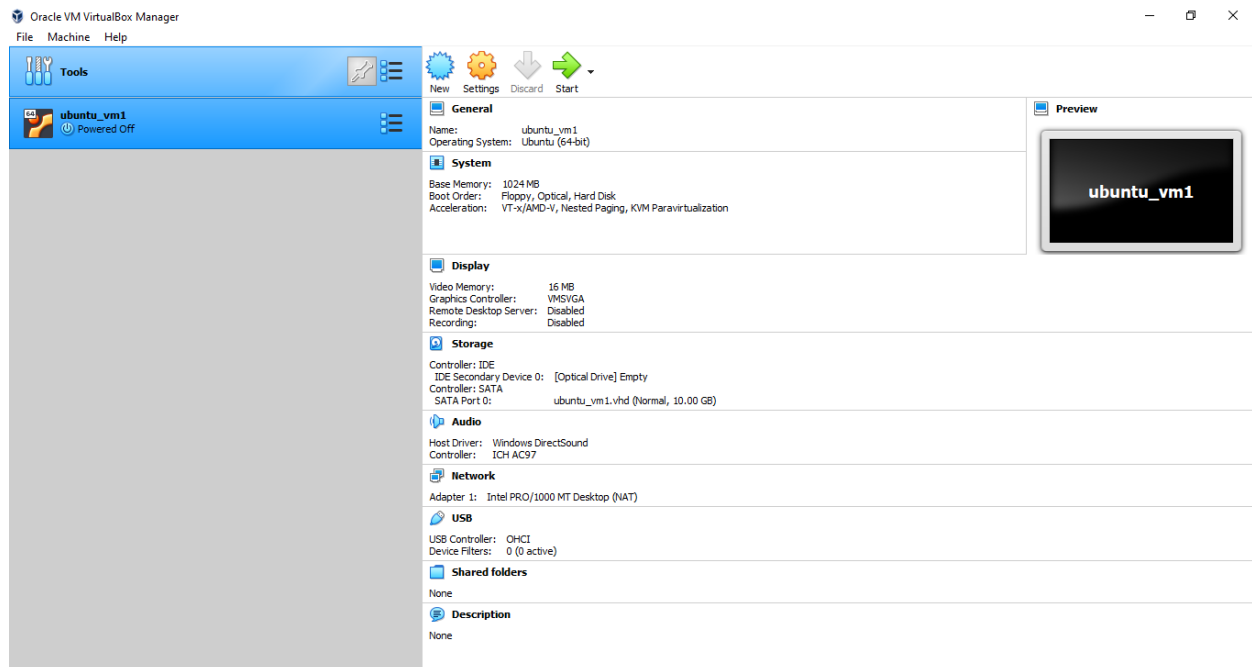
C:\Users\Test.S28\VirtualBox VMs\ubuntu-vm1\ubuntu-vm1.vdi

Select the size of the virtual hard disk in megabytes. This size is the limit on the amount of file data that a virtual machine will be able to store on the hard disk.

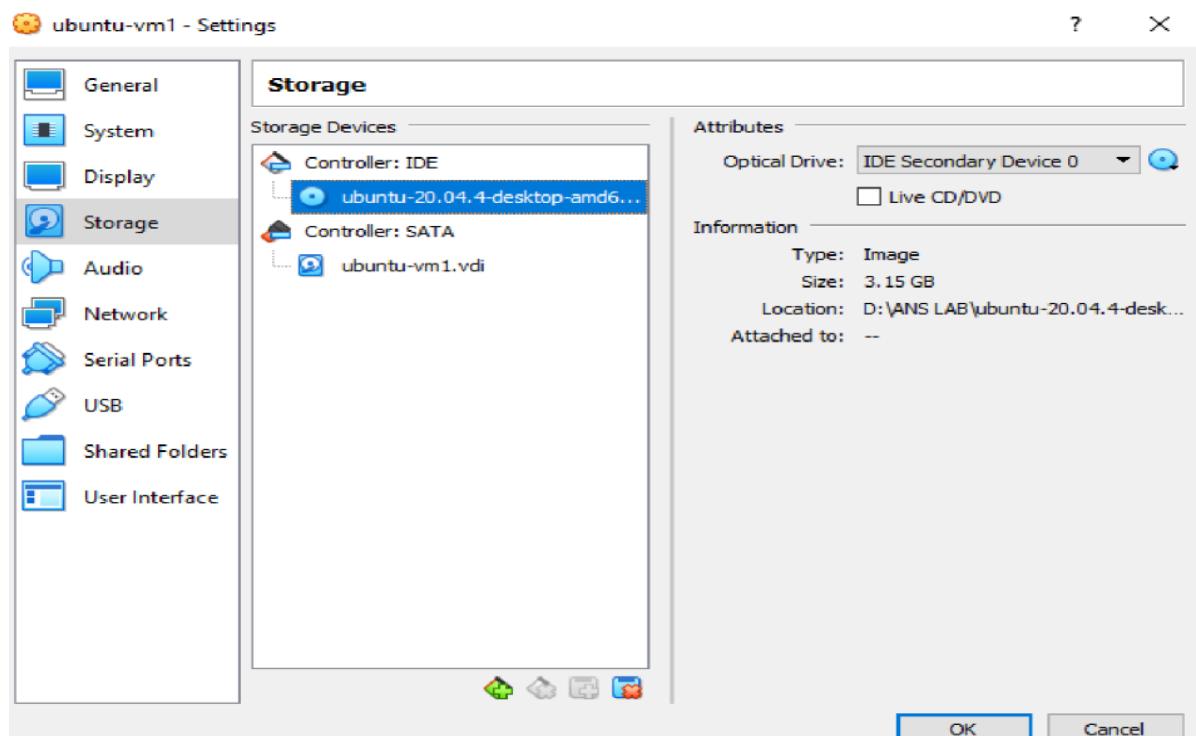
4.00 MB 2.00 TB 10.00 GB

Create Cancel

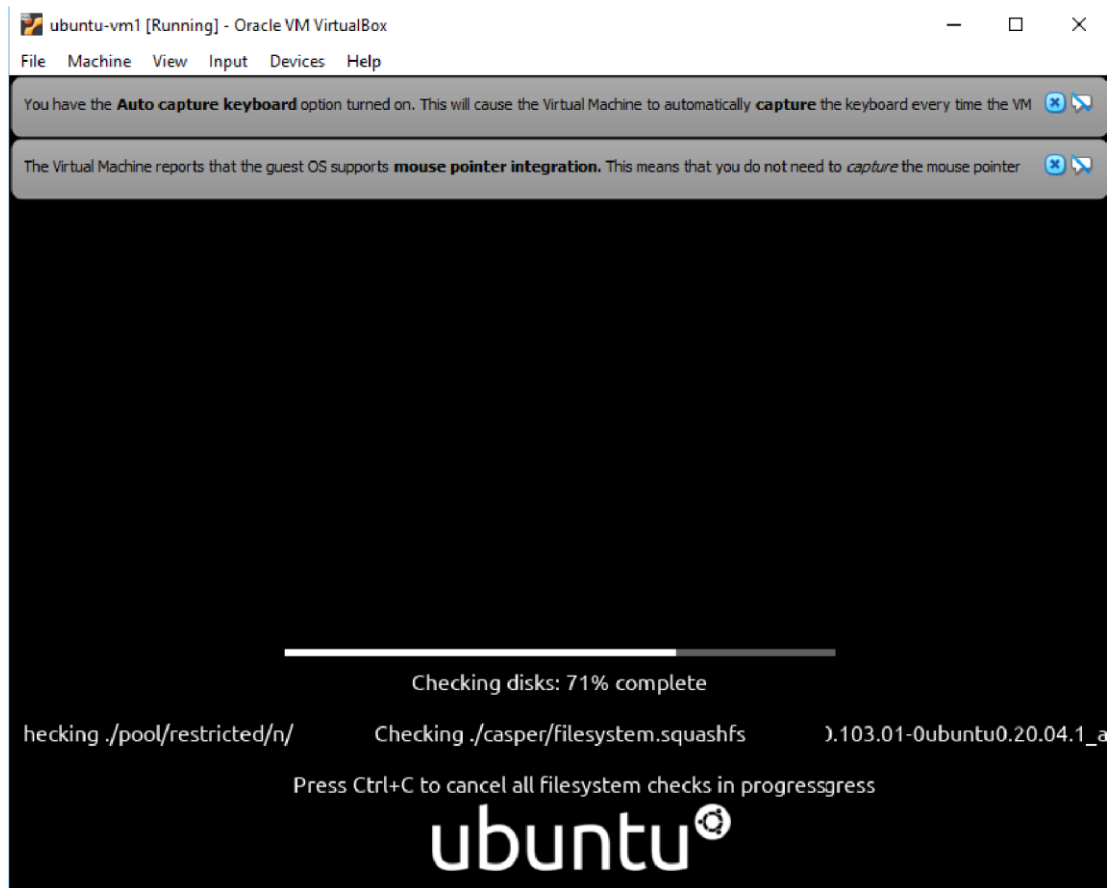
Step 10: The name of your virtual machine will now appear on the left side of the VirtualBox manager. Select Start in the toolbar to launch your VM.



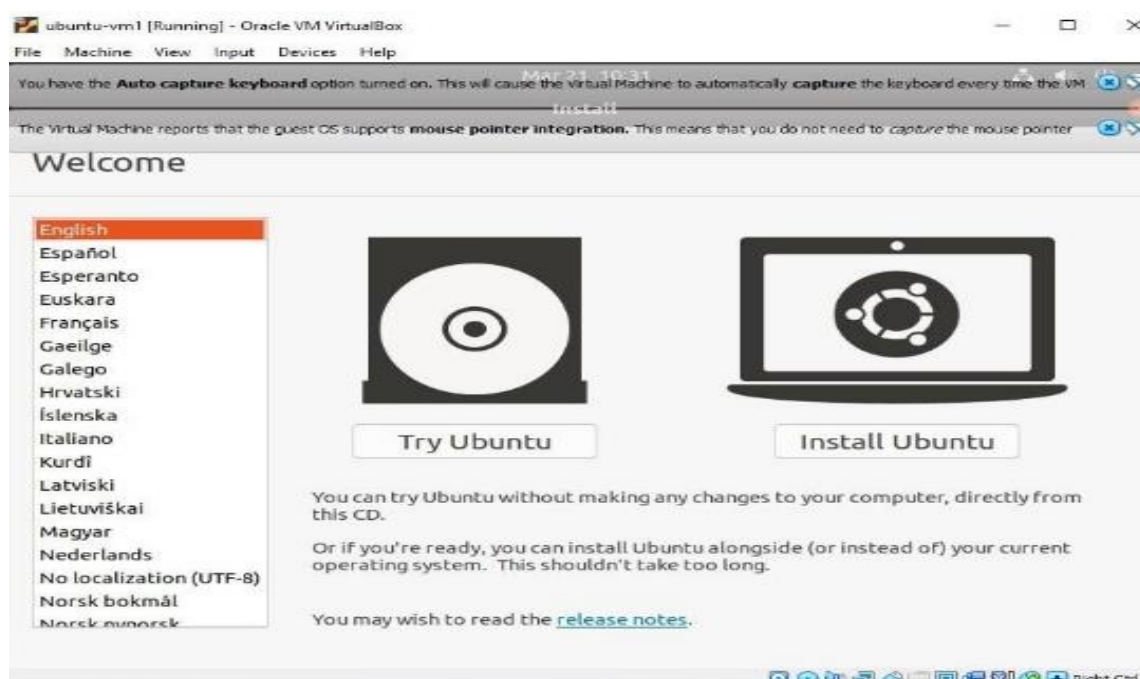
Step 11: This is the point where you need to choose the Ubuntu ISO file you downloaded earlier. If the VM doesn't automatically detect it, select the folder next to the Empty field.



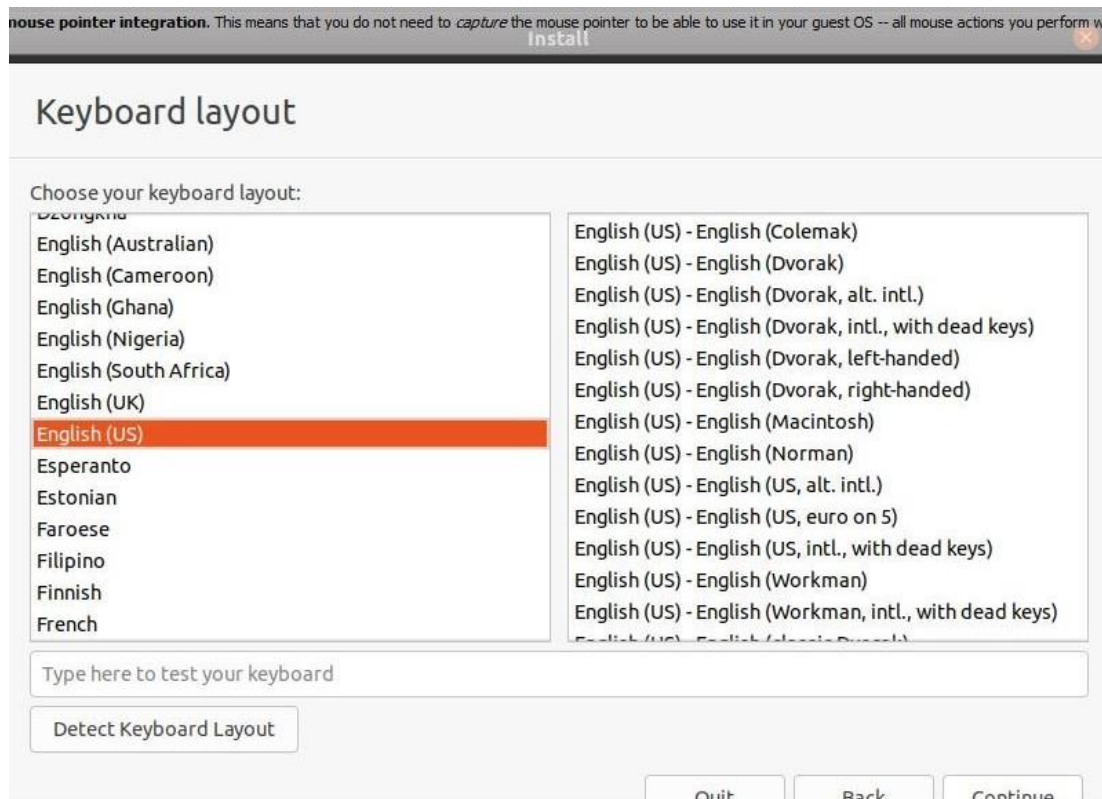
Step 12: Select Add in the window that pops up.



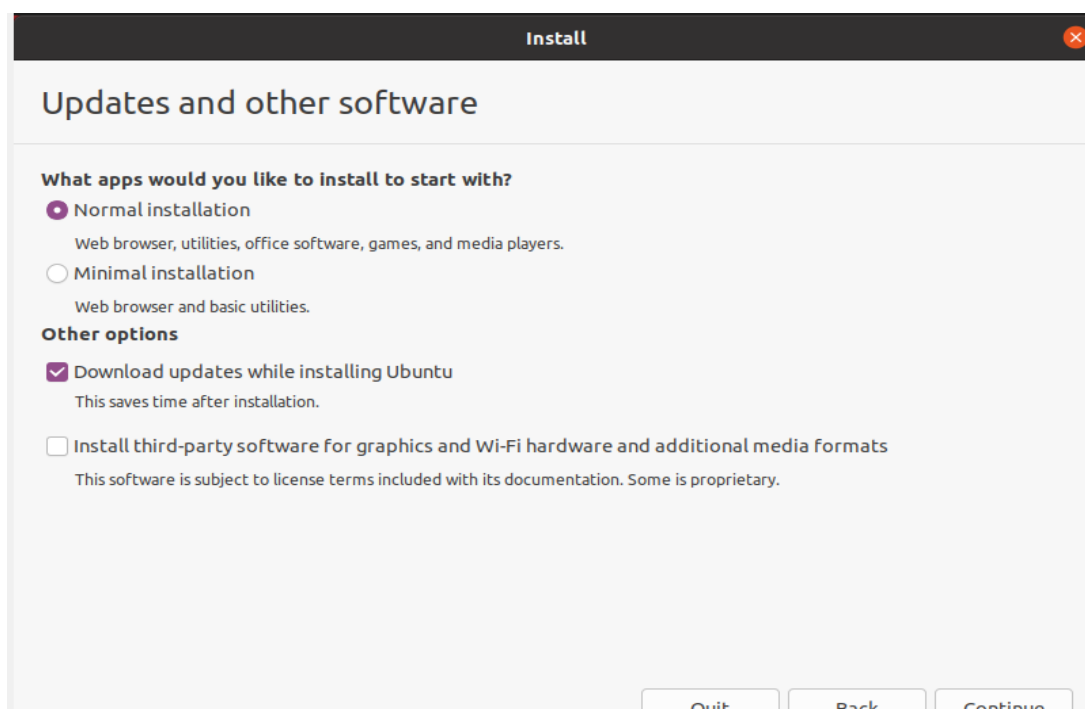
Step 13: Your VM will now boot into a live version of Ubuntu. Choose your language and select Install Ubuntu.



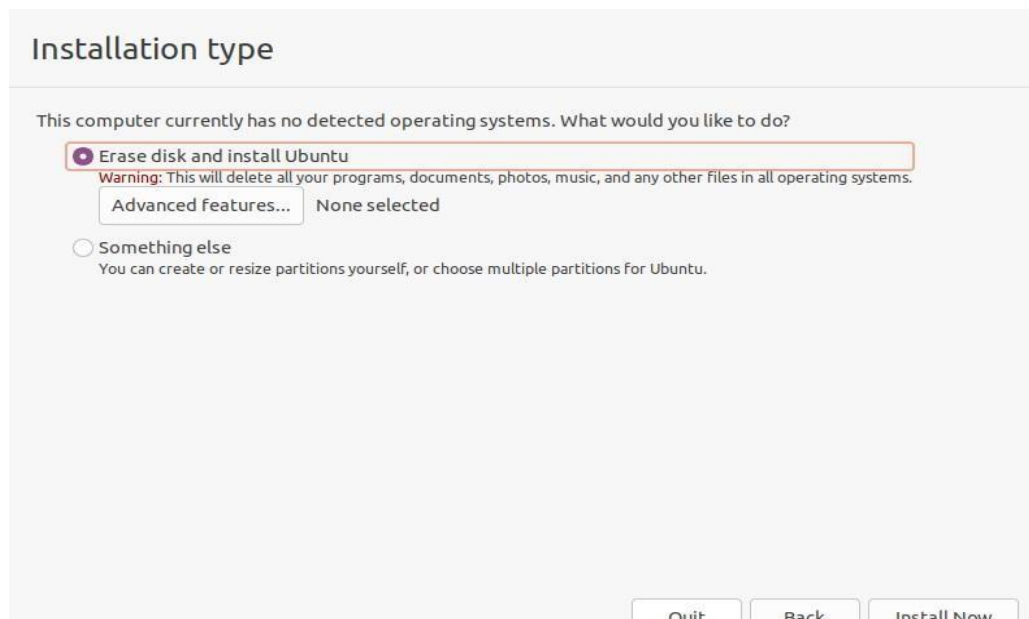
Step 14: Choose your keyboard layout and select Continue.



Step 15: Choose Normal installation or Minimal installation, then select Continue.



Step 16: Choose Erase disk and install Ubuntu and select Install Now, then select Continue to ignore the warning.



Step 17: Choose your time zone on the map, then select Continue.



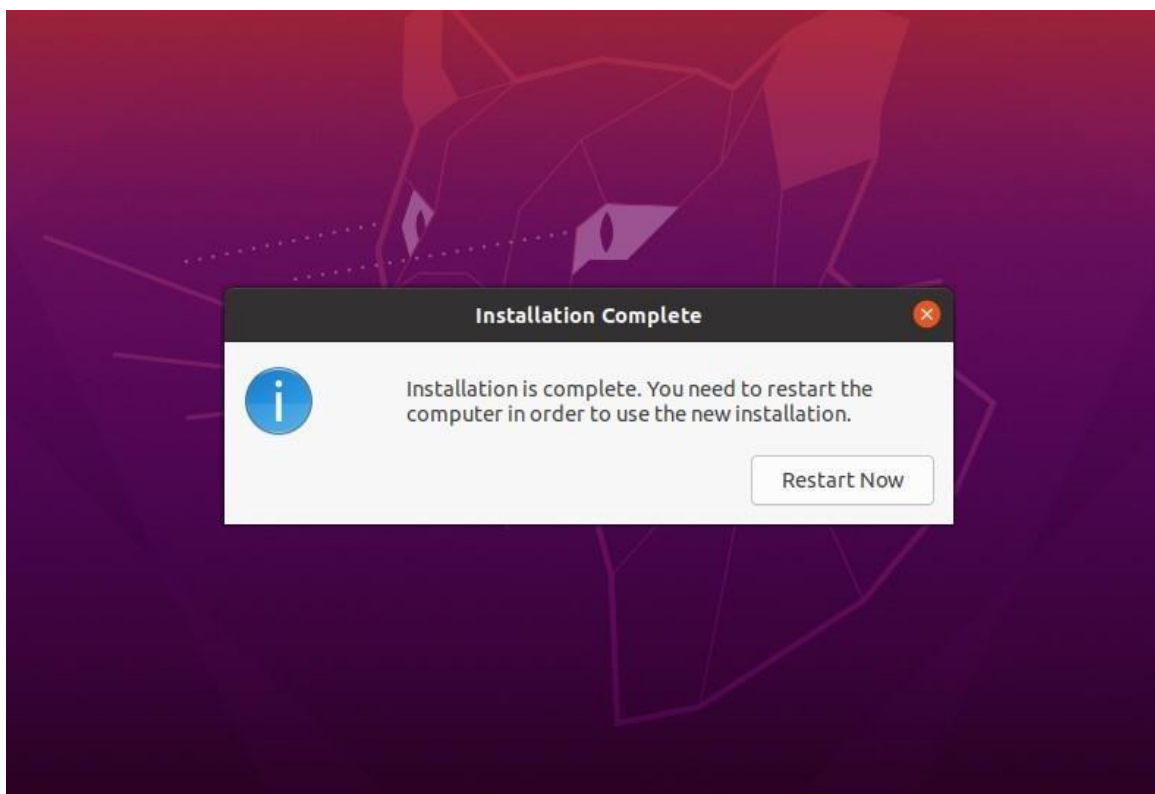
Step 18: Set up your user account and select Continue.



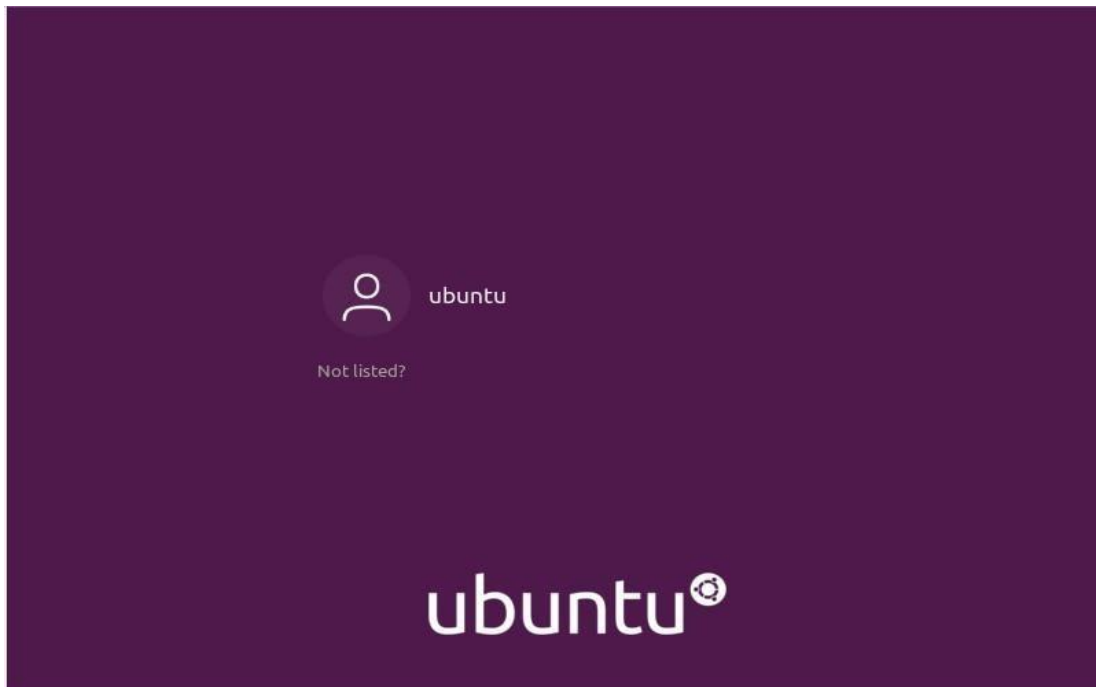
The image shows the 'Who are you?' screen of the Ubuntu installer. It contains the following fields and options:

- Your name:** A text box containing 'ubuntu' with a green checkmark to its right.
- Your computer's name:** A text box containing 'ubuntu-VirtualBox' with a green checkmark to its right. Below it, a note says 'The name it uses when it talks to other computers.'
- Pick a username:** A text box containing 'ubuntu' with a green checkmark to its right.
- Choose a password:** A password field with 12 dots, an eye icon, and the text 'Good password' in green.
- Confirm your password:** A password field with 12 dots and a green checkmark to its right.
- Log in options:**
 - ☐ Log in automatically
 - ☒ Require my password to log in
 - ☐ Use Active Directory
- Footer:** A note says 'You'll enter domain and other details in the next step.' At the bottom right are two buttons: 'Back' and 'Continue'.

Step 19: Select Restart Now.



Step 20: After log in you can see ubuntu desktop



Step 21: You are successfully installed ubuntu in virtual box

