

# How to Install VMware Workstation 17 Pro on Ubuntu 23.10 & 22.04

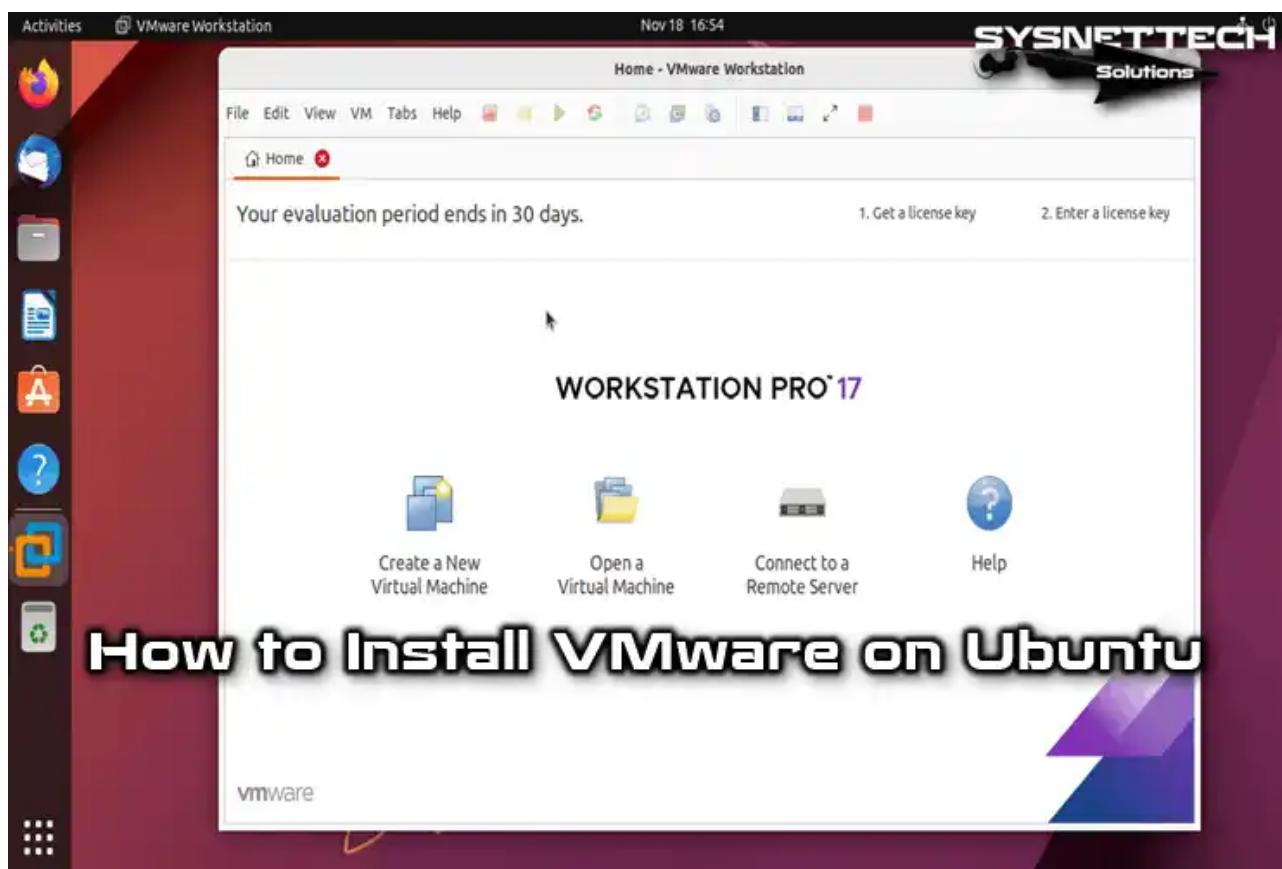
sysnettechsolutions.com/en/install-vmware-ubuntu

Tolga Bagci

October 7, 2017

Welcome to our comprehensive guide to installing and using VMware Workstation 17 Pro on Ubuntu 23.10 & 22.04. This software makes it easy for you to create virtual machines on a single computer. In addition, it allows you to run more than one identical or different operating system.

In this article, I will explain how to download and install VMware Workstation in Ubuntu. Additionally, I will cover the process of configuring and creating virtual machines. However, I will guide you on managing virtual machines.



## How to Set Up VMware Workstation 17 Pro to Run a Virtual Machine on Ubuntu 23.10 & 22.04

As you know, VMware Workstation is the most popular virtualization program, and this software works in Microsoft Windows operating systems as well as Linux distributions such as Ubuntu.

Installing VMware on the Windows 10 platform is simple as it only takes a few steps; however, although the installation process on Linux-based systems is simple, in some cases, you may need to install dependent packages.

With VMware Workstation, you can create virtual machines and run multiple virtual computers on your computer at the same time. Also, this virtualization program is not an open source and free program, but you can purchase it after taking advantage of a 30-day free trial period.

## How to Download and Install VMware Pro on Ubuntu PC

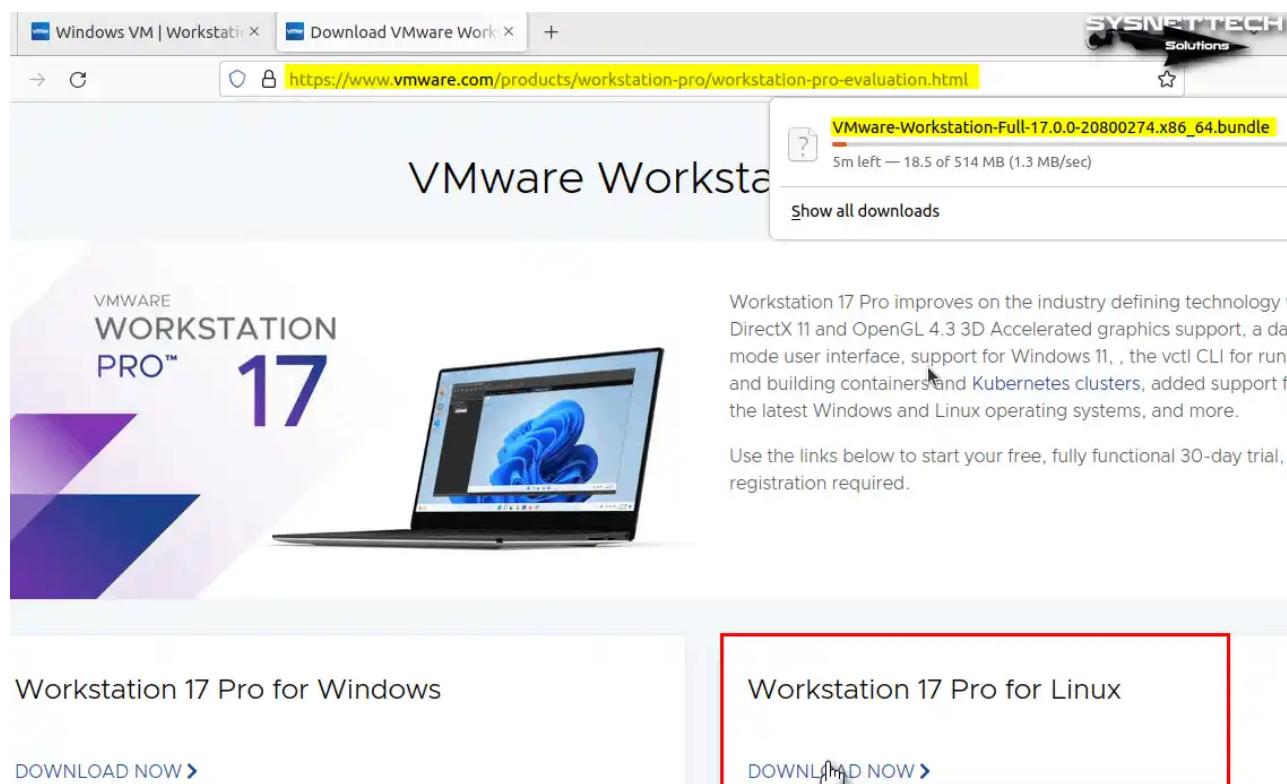
First of all, if you are using both Windows and Ubuntu with dual boot configuration on your computer, do not install them directly on your running system whenever new versions of this virtualization software or other 3rd party software are released. First, [install Ubuntu on a virtual machine](#), install new versions of the relevant programs, check system compatibility, and then install them on your current system.

### Step 1

To download VMware for Linux, visit [this resource](#) and start the download by clicking “Download Now,” as in the image below.

You can easily download Workstation software via a web browser from VMware’s official website. But you can also do this with a single command from the terminal.

```
cd ~/Downloads  
wget https://download3.vmware.com/software/WKST-1700-LX/VMware-Workstation-Full-17.0.0-  
20800274.x86_64.bundle
```



Workstation 17 Pro improves on the industry defining technology of DirectX 11 and OpenGL 4.3 3D Accelerated graphics support, a dynamic user interface, support for Windows 11, the vcli CLI for running and building containers and Kubernetes clusters, added support for the latest Windows and Linux operating systems, and more.

Use the links below to start your free, fully functional 30-day trial, no registration required.

Workstation 17 Pro for Windows

[DOWNLOAD NOW >](#)

Workstation 17 Pro for Linux

[DOWNLOAD NOW >](#)

### Step 2

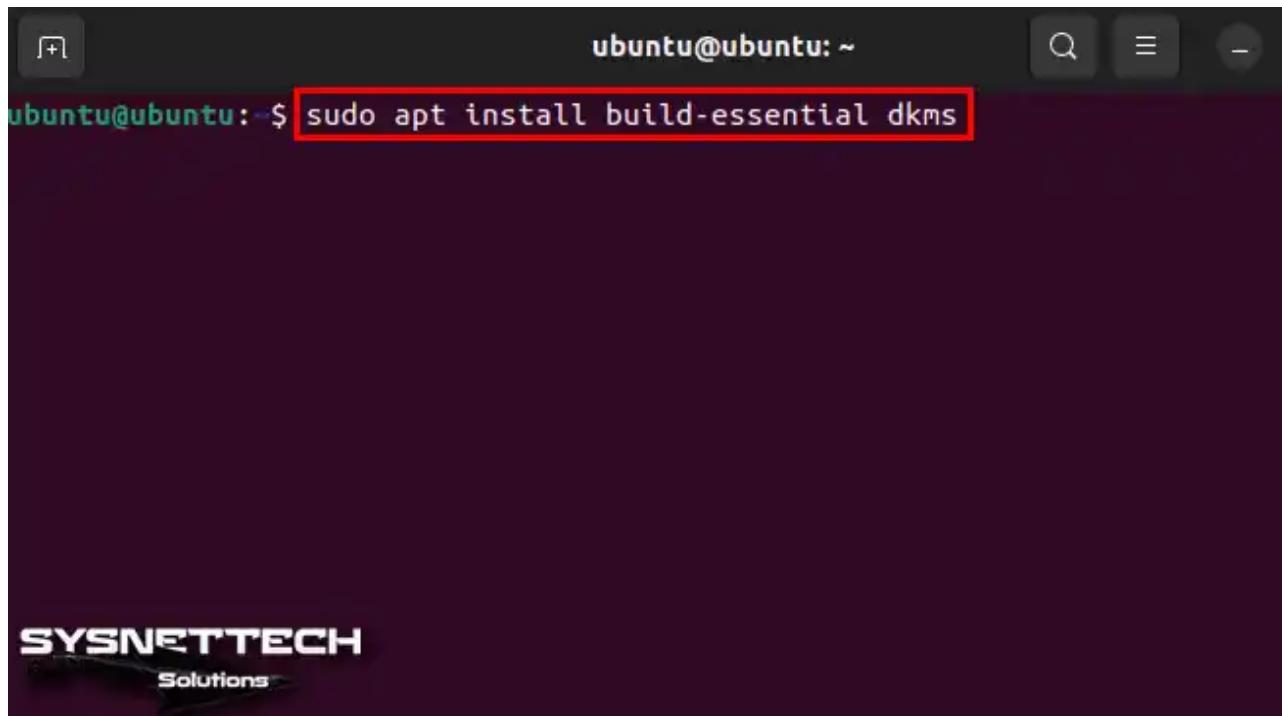
After downloading the bundle extension setup file, execute the “sudo apt update” and “sudo apt upgrade” commands in the terminal to update the package list of the applications and components installed on your system.

```
sudo apt update  
sudo apt upgrade
```

Now, you need to download and install the necessary Linux kernel packages on your system for the VMware program to run smoothly. Otherwise, you will get the GNU C Compiler error and will not be able to start the program.

To fix the GNU C Compiler error and install the dependent packages required to run the virtual machine program, execute the “sudo apt install build-essential” command in the terminal, and then press Y and Enter to confirm the installation of the dependent packages.

```
sudo apt install build-essential dkms
```

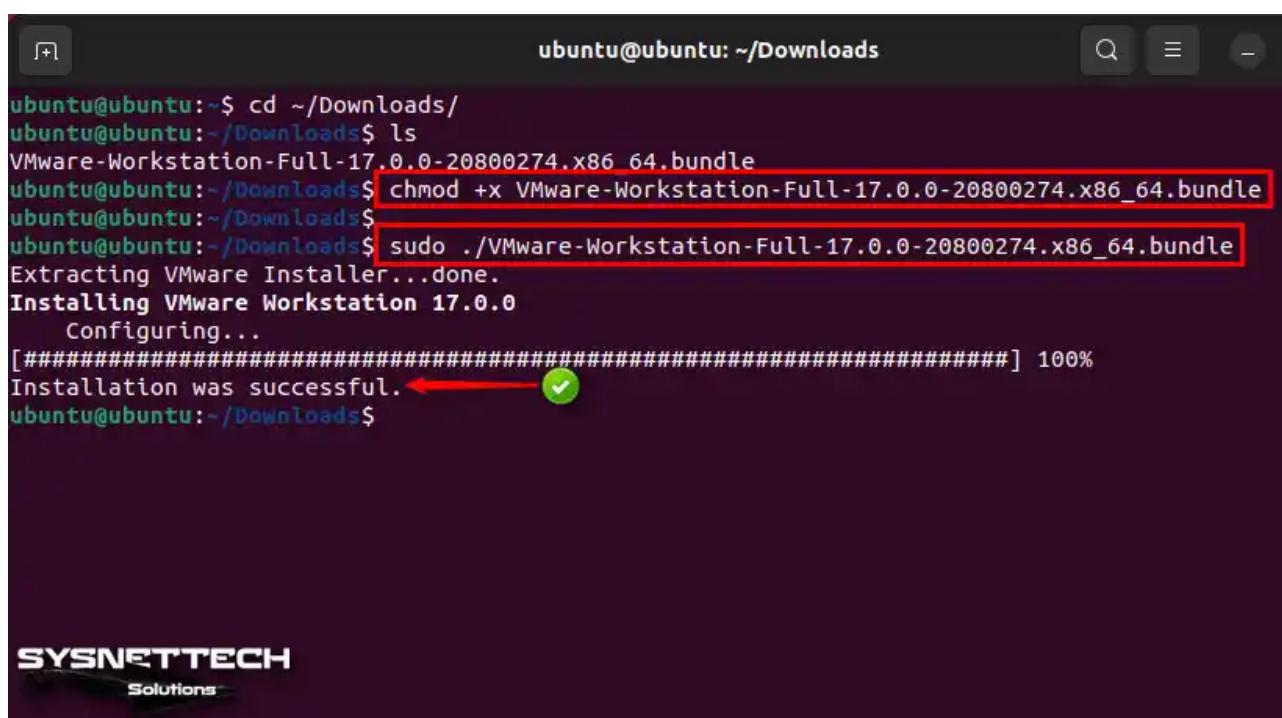


The image shows a terminal window titled "ubuntu@ubuntu: ~". The command "sudo apt install build-essential dkms" is entered and highlighted with a red box. The background of the terminal is dark, and the SYSNETTECH Solutions watermark is visible at the bottom.

### Step 3

After downloading the VMware virtual machine software to the Downloads location, execute the commands below in the terminal to edit the executable permissions of the file and start the installation.

```
chmod +x VMware-Workstation-Full-17.0.0-20800274.x86_64.bundle  
sudo ./VMware-Workstation-Full-17.0.0-20800274.x86_64.bundle
```



The image shows a terminal window titled "ubuntu@ubuntu: ~/Downloads". It displays the following sequence of commands and output:

```
ubuntu@ubuntu:~$ cd ~/Downloads/  
ubuntu@ubuntu:~/Downloads$ ls  
VMware-Workstation-Full-17.0.0-20800274.x86_64.bundle  
ubuntu@ubuntu:~/Downloads$ chmod +x VMware-Workstation-Full-17.0.0-20800274.x86_64.bundle  
ubuntu@ubuntu:~/Downloads$ sudo ./VMware-Workstation-Full-17.0.0-20800274.x86_64.bundle  
Extracting VMware Installer...done.  
Installing VMware Workstation 17.0.0  
Configuring...  
[########################################] 100%  
Installation was successful. ↪ ✓
```

A green checkmark icon is placed near the "Installation was successful." message. The background is dark, and the SYSNETTECH Solutions watermark is visible at the bottom.

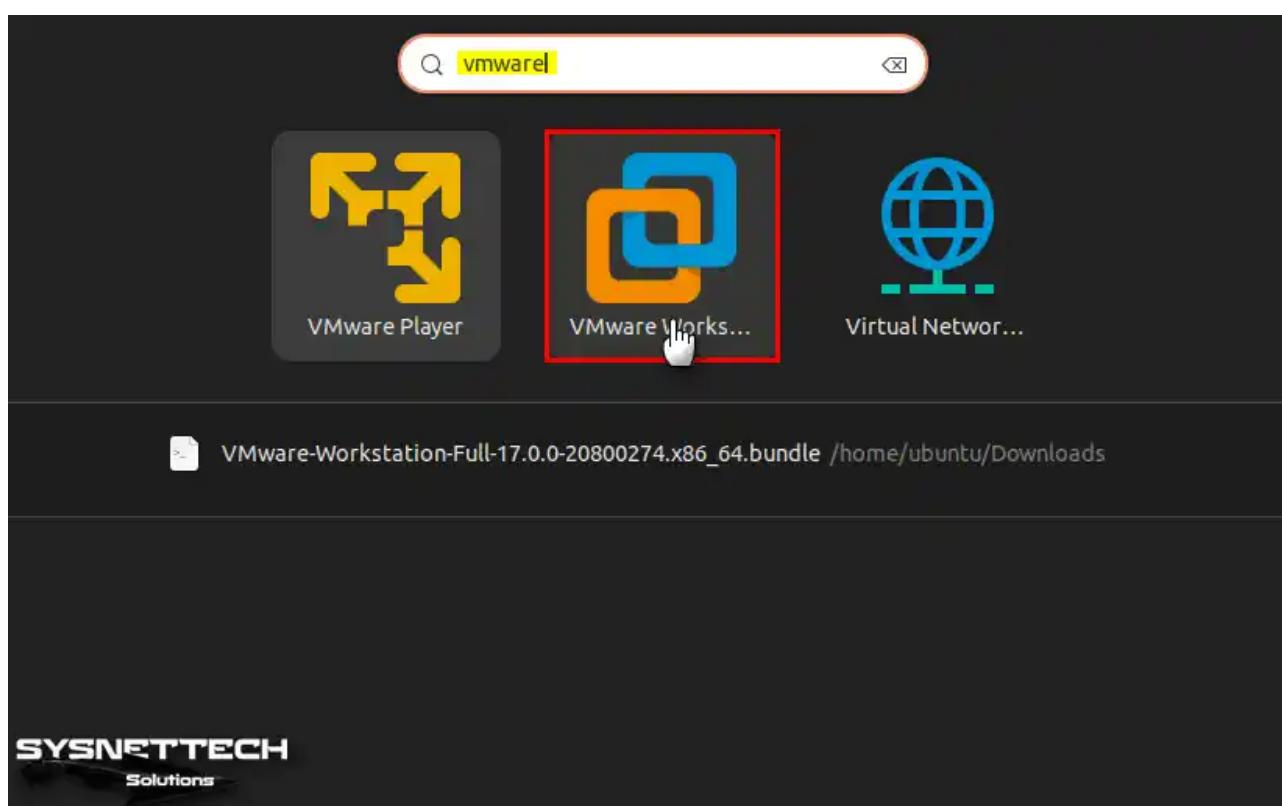
## Step 4

After the installation process is completed, find the VMware Workstation program from the Show Applications section and run it. You can also see that the Virtual Network Editor and VMware Player software are installed after the installation.

**NOTE:** If you encounter the error “Unable to install all modules” when you run the VMware program at this stage, you need to manually download and compile the vmmon and vmnet modules of the Workstation program.

To solve the “Unable to install all modules” error in Ubuntu, execute the commands below in the order in the terminal to download the required modules from Github and copy them to the relevant location.

```
sudo apt install git
git clone https://github.com/mkubecek/vmware-host-modules
cd vmware-host-modules
git checkout workstation-17
sudo make && sudo make install
tar -cf vmnet.tar vmnet-only && tar -cf vmmon.tar vmmon-only
sudo cp -v vmmon.tar vmnet.tar /usr/lib/vmware/modules/source/
sudo vmware-modconfig --console --install-all
```



## Step 5

After installing the necessary packages, when the VMware End User License Agreement window opens, read the license terms, select “I accept the terms in the license agreement” to accept, and click the Next button.

**Welcome to VMware Workstation**

Please review the following license agreement to continue

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**VMWARE END USER LICENSE AGREEMENT**

Last updated: 03 May 2021

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[VMware Workstation - End User License Agreement](#)

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2 I do not accept the terms in the license agreement

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Next 2

**Step 6**

Also, accept the OVF Tool component for the Linux license agreement and click Next.



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VMware OVF Tool component for Linux - End User License Agreement

I accept the terms in the license agreement.

1 I do not accept the terms in the license agreement

Cancel

Back

Next

2

## Step 7

If you want the virtual machine software to check for updates at system startup, select Yes and click Next.

**Questions**

Customize the installation

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**17****Would you like to check for product updates on startup?**

A standard Windows-style cancel button with a red X and the word "Cancel".

A back button with a left-pointing arrow and the word "Back".

A next button with a right-pointing arrow and the word "Next". A red rectangle surrounds the entire button, and a red number "2" is to its right.

**Step 8**

Select Yes to confirm participation in the VMware customer experience program, and then click Next.

**Questions**

Customize the installation

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VMware's Customer Experience Improvement Program ("CEIP") provides VMware with information that enables VMware to improve its products and services, to fix problems, and to advise you on how best to deploy and use our products. As part of the CEIP, VMware collects technical information about your organization's use of VMware products and services on a regular basis in association with your organization's VMware license key(s). This information does not personally identify any individual.

Additional information regarding the data collected through CEIP and the purposes for which it is used by VMware is set forth in the Trust & Assurance Center at <http://www.vmware.com/trustvmware/ceip.html>.

Join the VMware Customer Experience Improvement Program ("CEIP")?  
If you prefer not to participate in VMware's CEIP for this product, you should select "No" below.  
You may join or leave VMware's CEIP for this product at any time.

Yes  
 1

Cancel

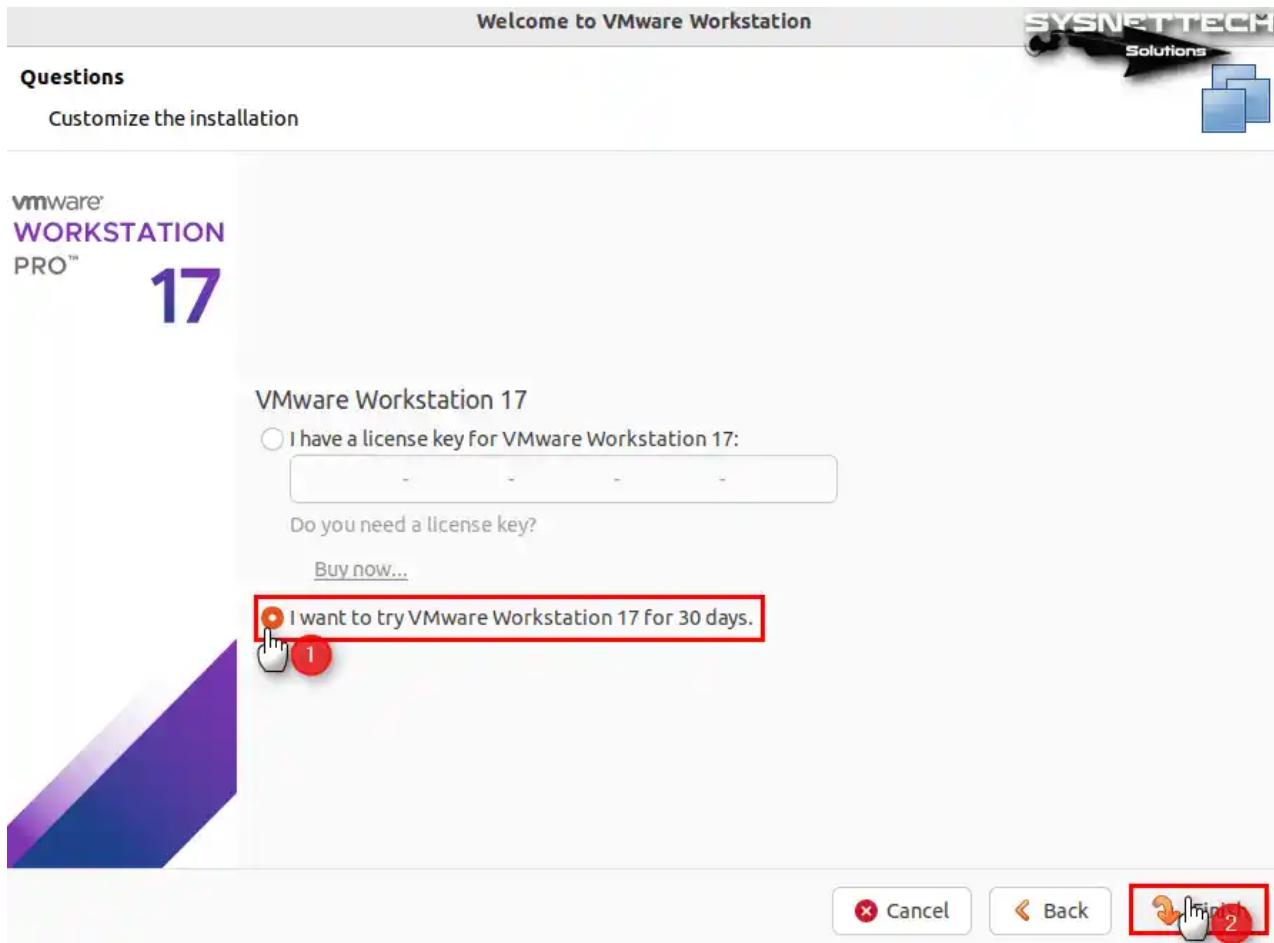
Back

Next

2

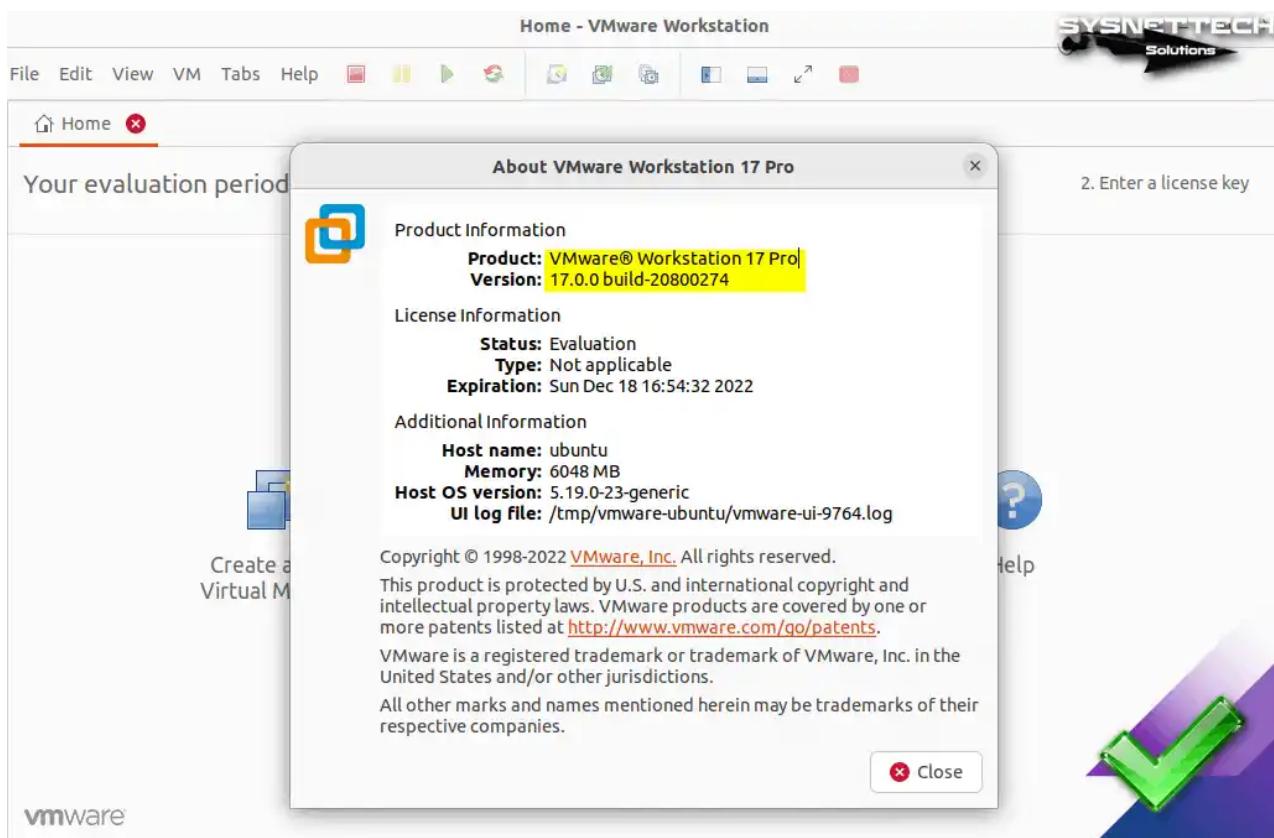
**Step 9**

If you purchased the Linux program, enter your license key. If you want to use and try the virtualization program for 30 days free of charge, select "I want to try VMware Workstation 17 for 30 days" and click the Finish button.



## Step 10

After successfully installing VMware Pro software, you can now install and test new or old versions of Windows, Linux, or macOS operating systems on your host computer.

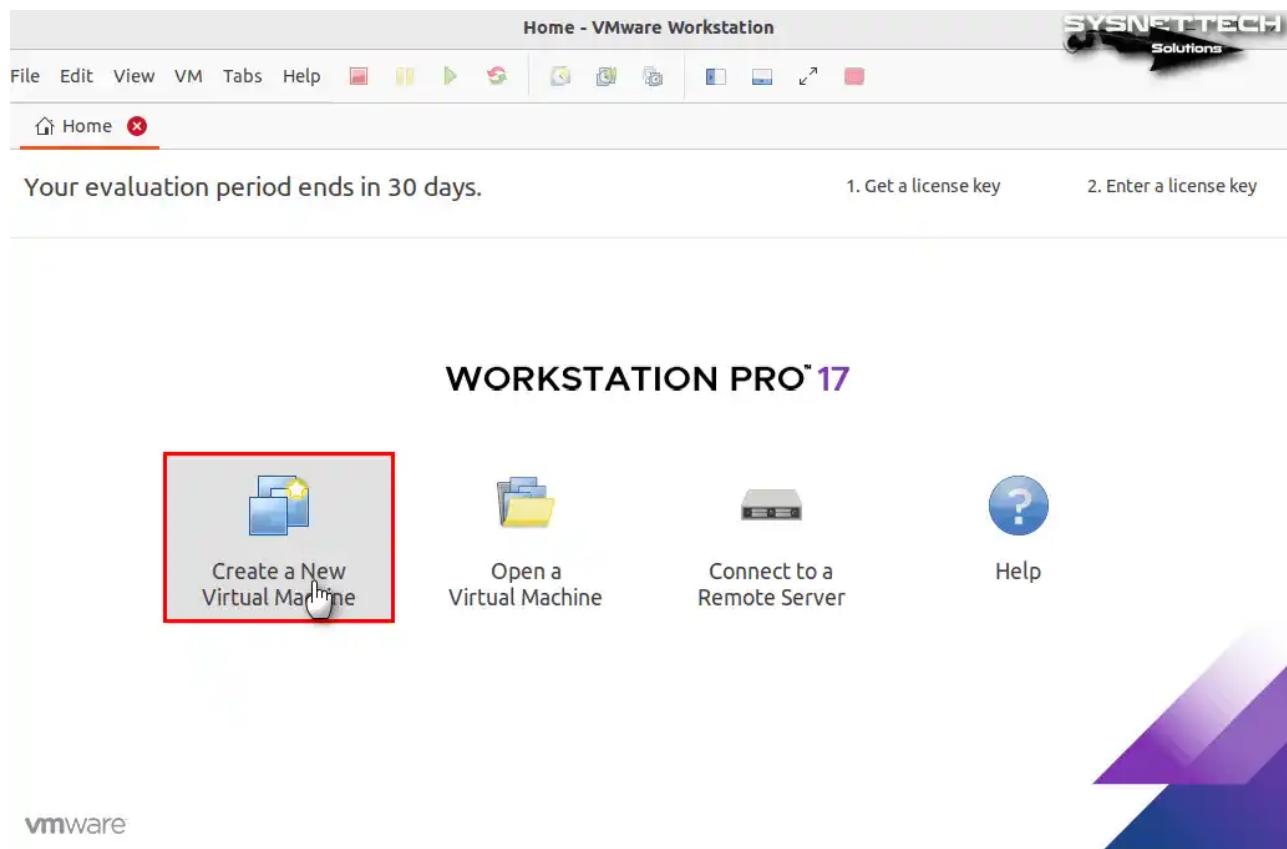


## How to Create a Virtual Machine on Ubuntu

After installing VMware Workstation on Ubuntu, you can start installing the operating system you want by creating a new VM.

### Step 1

Open the VMware Workstation 17 Pro software on your Linux system and click Create a New Virtual Machine.



### Step 2

To configure the virtual machine with advanced settings, tick Custom (Advanced) and click Next.



## Welcome to the New Virtual Machine Wizard

What type of configuration do you want?

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## Virtual Machine Configuration

 Typical (recommended)

Create a Workstation 17.x virtual machine in a few easy steps.

 Custom (advanced)

Create a virtual machine with advanced options: change the SCSI controller and virtual disk type, specify compatibility with older VMware products, etc.

Help

Cancel

Back

 Next 2

## Step 3

Configure the hardware compatibility of the virtual computer as the latest version of your VMware software and click Next.

**Choose the Virtual Machine Hardware Compatibility**

Which hardware features are needed for this virtual machine?

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**Virtual Machine Hardware Compatibility**Hardware compatibility:  ESX Server Compatible

Workstation 17.x

**Compatible Products**

Fusion 13.x

Workstation 17.x

**Limitations**

128 GB memory

32 processors

10 network adapters

8 TB disk size

8 GB shared graphics memory

Help

Cancel

Back

Next

**Step 4**

You can use your physical drive or ISO installation media to install the operating system. However, to better configure the virtual machine's settings, select I will install the operating system later and click Next.

**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?

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**Install operating system from:**

Use a physical drive:

Device: /dev/sr0



Rescan disc

Use ISO image:

I will install the operating system later.

The virtual machine will be created with a blank hard disk.



1



2

**Step 5**

If you have planned to install Windows 10 as the guest operating system, select Microsoft Windows, then select Windows 10 and later x64 from the Version section and click Next.

**Select a Guest Operating System**

Which operating system will be installed on this virtual machine?

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**17****Guest Operating System**

1. Microsoft Windows

A hand cursor icon pointing at the "Microsoft Windows" radio button.

2. Linux

3. VMware ESX

4. Other

Version: Windows 10 x64



A question mark icon inside a circle, labeled "Help".

A red X icon inside a circle, labeled "Cancel".

A left-pointing arrow icon inside a circle, labeled "Back".

A right-pointing arrow icon inside a circle, labeled "Next".

2

**Step 6**

Please create a new folder in the location where you want to install the Windows 10 virtual computer and select it.

**Name the Virtual Machine**

What name would you like to use for this virtual machine?

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**17**

**Virtual Machine Name**

Name: **Windows 10 x64**

Location: **/home/ubuntu/vmware/Windows 10 x64**

**Browse...**

The default location can be changed at **Edit > Preferences**.

**Cancel**

**Back**

**Next**

**Step 7**

Select UEFI as the firmware type and continue.

**Firmware Type**

What kind of boot device should this virtual machine have?

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**Firmware Type** BIOS

- UEFI
- Secure Boot



A standard cancel button with a red 'X' icon.

A back button with a left arrow icon.

A next button with a right arrow icon. It has a red border and a red circle with the number 3, indicating it is the current active button.

**Step 8**

In the virtual processor configuration, determine the number of processors and cores according to the power of your host computer.

**Processor Configuration**

Specify the number of processors for this virtual machine.

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**Processors**

Number of processors:

1

Number of cores per processor:

2

Total processor cores:

2



1

[Help](#)[Cancel](#)[Back](#)[Next >](#)

2

**Step 9**

Likewise, configure the virtual memory size for the Windows 10 guest machine according to the RAM capacity of your host.

**Memory for the Virtual Machine**

How much memory would you like to use for this virtual machine?

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**17****Memory**

Specify the amount of memory allocated to this virtual machine. The memory size must be a multiple of 4 MB.

Memory for this virtual machine:  - + MB

- 128 GB
- 64 GB
- 32 GB
- 16 GB
- 8 GB
- 4 GB
- 2 GB** 1
- 1 GB
- 512 MB
- 256 MB
- 128 MB
- 64 MB
- 32 MB
- 16 MB
- 8 MB
- 4 MB

█ Maximum recommended memory  
(Memory swapping may occur beyond this size)  
5292 MB

█ Recommended memory  
2048 MB

█ Guest OS recommended minimum  
2048 MB

? Help× Cancel◀ Back▶ Next 2**Step 10**

If you want to connect the guest machine to your physical network, you can choose Bridged Network. If you do not wish for your virtual computer to obtain an IP address from your local network, continue with the default option, Network Address Translation (NAT).

**Network Type**

What type of network do you want to add?

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**Network Connection** Use bridged networking

Give the guest operating system direct access to an external Ethernet network. The guest must have its own IP address on the external network.

 Use network address translation (NAT)

1 Give the guest operating system access to the host computer's dial-up or external Ethernet network connection using the host's IP address.

 Use host-only networking

Connect the guest operating system to a private virtual network on the host computer.

 Do not use a network connection

Help

Cancel

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Next 2

**Step 11**

Continue with the recommended LSI Logic SAS option as the I/O controller type.

**Select I/O Controller Types**

Which SCSI controller type would you like to use for SCSI virtual disks?

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**I/O Controller Types**

SCSI controller:  BusLogic  
 LSI Logic

**LSI Logic SAS (Recommended)**  
virtualized SCSI

- ⓘ BusLogic SCSI controllers are not supported on 64-bit virtual machines.
- ⓘ LSI Logic SCSI controllers are not supported on Windows 10 x64 virtual machines.

Help

Cancel

Back

Next 2

**Step 12**

You can specify the type of virtual machine's virtual disk as IDE, SCSI, SATA, or NVMe. Since NVMe is a newer technology, your guest operating system is more efficient. Therefore, select the NVMe disk type for the virtual disk type and click Next.

**Select a Disk Type**

What kind of disk do you want to create?

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**Virtual Disk Type**

- IDE
- SCSI
- SATA
- NVMe (Recommended)



Help

Cancel

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Next

2

**Step 13**

When choosing the disk structure you want to use, select the Create a new virtual disk option and continue as you will install a Windows 10 from scratch.

**Select a Disk**

Which disk do you want to use?

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**WORKSTATION**  
PRO™**17****Disk**

A circular icon containing a hand cursor pointing at a blue circle, with the number '1' in a red circle to its right.

Create a new virtual disk  
Virtual machine is composed of one or more files on the host file system, which will appear as a single hard disk to the guest operating system. Virtual disks can easily be copied or moved on the same host or between hosts.

 Use an existing virtual disk

Choose this option to reuse a previously configured disk.

 Use a physical disk (for advanced users)

Choose this option to give the virtual machine direct access to a local hard disk.

A small button with a question mark icon.

A small button with a red 'X' icon.

A small button with a left arrow icon.

A small button with a right arrow icon and the number '2' in a red circle.

**Step 14**

Determine the virtual disk capacity of the guest machine depending on the actions you will take and choose to backup the virtual disk as a single file type.

**Specify Disk Capacity**

How large do you want this disk to be?

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**Disk Size**

Maximum disk size (in GB): **60.000**

Recommended size for Windows 10 x64: 60 GB

Allocate all disk space now

Allocating the full capacity can enhance performance but requires all of the physical disk space to be available right now. If you do not allocate all the space now, the virtual disk starts small and grows as you add data to it.

**Store virtual disk as a single file**

1 virtual disk into multiple files

Splitting the disk makes it easier to move the virtual machine to another computer but may reduce performance with very large disks.

Help

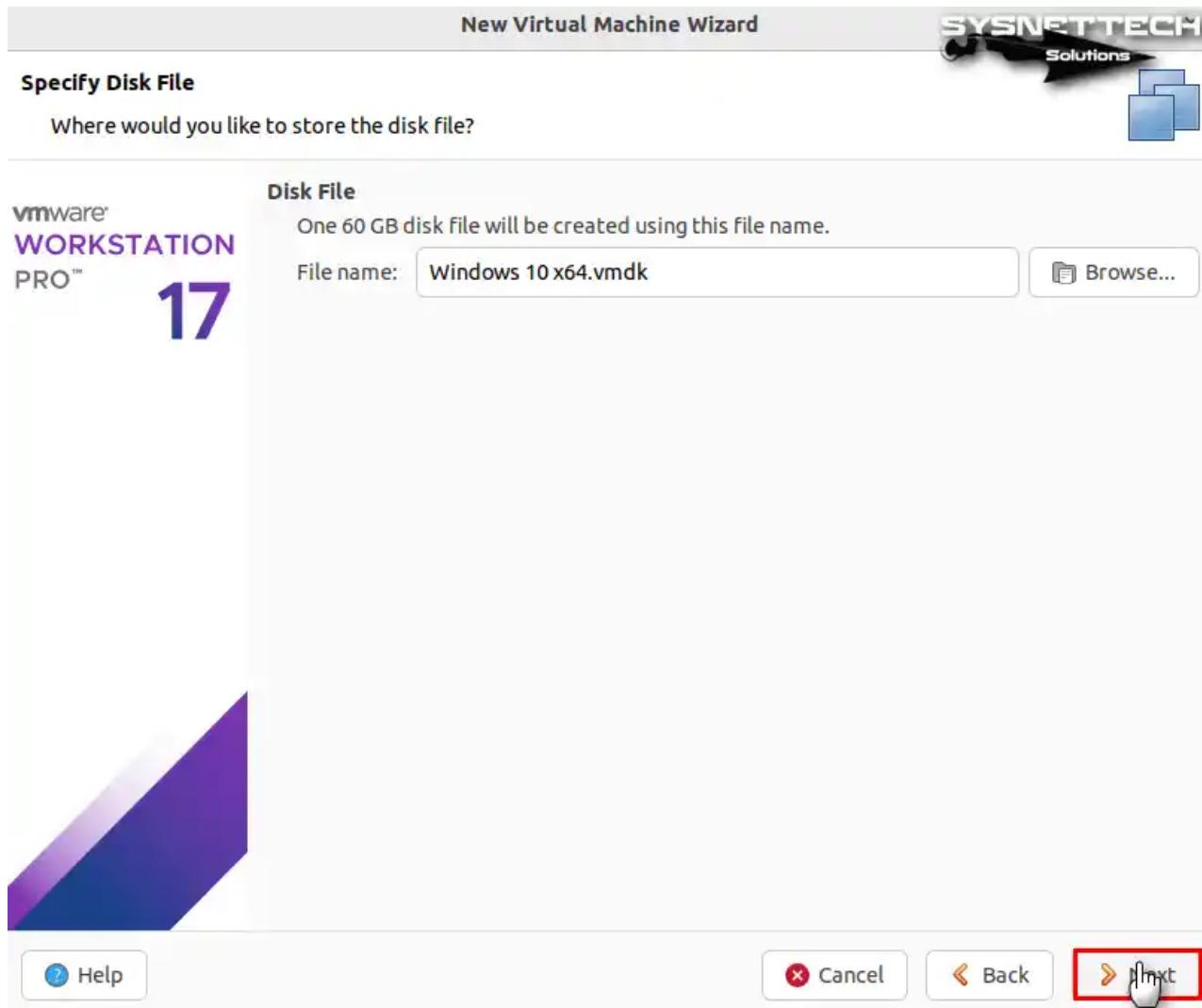
Cancel

Back

**Next** 2

**Step 15**

Leave the virtual disk location at default and continue.



## Step 16

You can see the hardware information of the Windows 10 virtual computer you have configured in the summary window. After checking the hardware information of your virtual system for the last time, click Finish and close the wizard.

**Ready to Create Virtual Machine**

Click Finish to create the virtual machine. Then you can install Windows 10 x64.

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**17**

The virtual machine will be created with the following settings:

Name: Windows 10 x64  
Location: /home/ubuntu/vmware/Windows 10 x64  
Version: Workstation 17.x  
Operating System: Windows 10 x64  
  
Hard Disk: 60 GB, Monolithic  
Memory: 2048 MB  
Network Adapter: NAT  
Other Devices: 2 CPU cores, CD/DVD, USB Controller, Printer, Sound Card

Customize Hardware...

Cancel

Back

**Finish**

**Step 17**

After installing your guest system, close the warning window to inform you that the first thing you need to do is install the VMware Tools software and continue.

**Virtual Machine Created**

Virtual machine created successfully. You still need to install the operating system and VMware Tools.

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**Install the Guest Operating System**

A new virtual machine is like a physical computer with a blank hard disk. The typical way to install the operating system is:

1. Insert the installation CD-ROM or DVD.
2. Power on the virtual machine.
3. Install the operating system as you would for a physical computer.

See the [Guest Operating System Installation Guide](#) for details.

**Install VMware Tools**

Special device drivers and utilities can help a virtual machine work more seamlessly with the host computer. To install them:

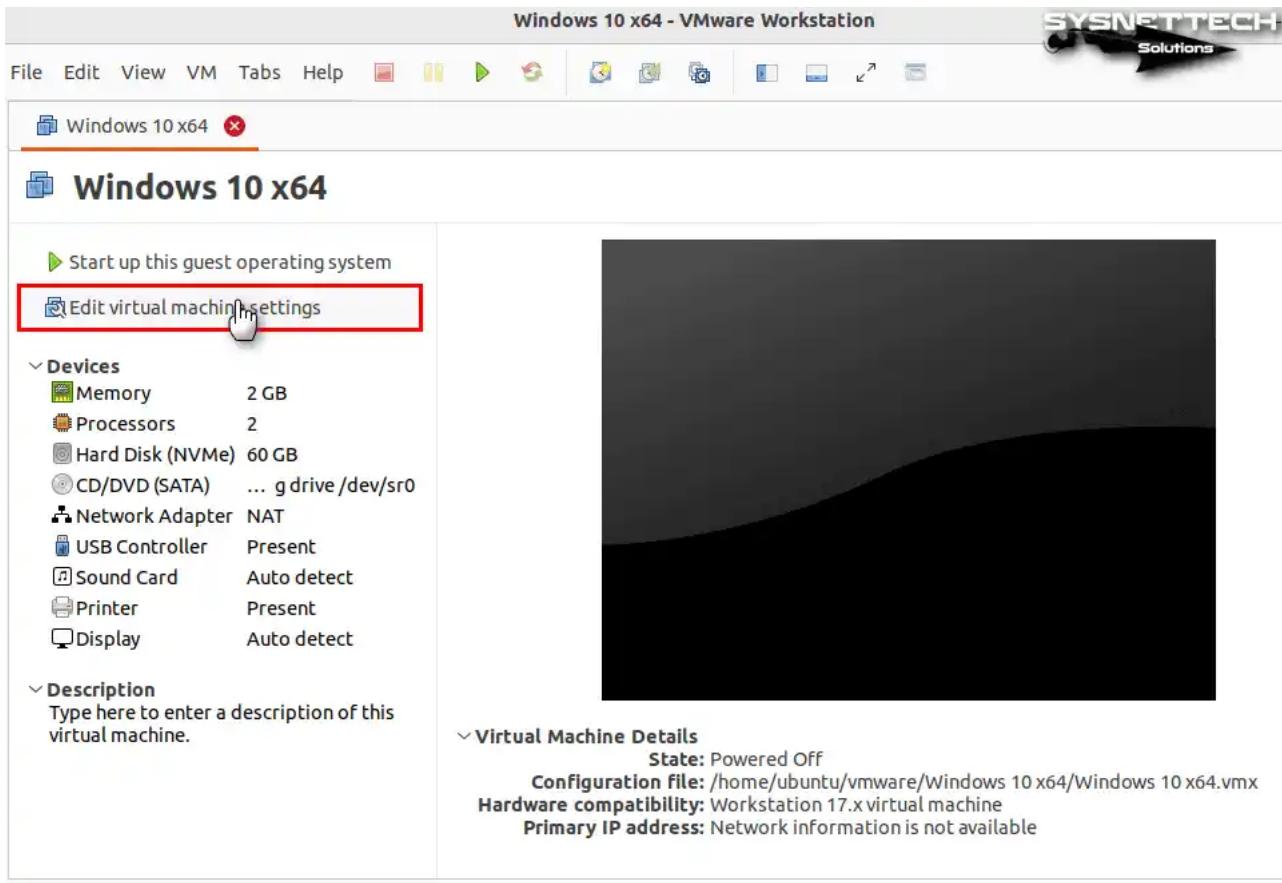
1. Power on the virtual machine.
2. Let the guest operating system load, and login if necessary.
3. From the menu bar, select VM > Install VMware Tools..

See the [VMware Tools Installation Guide](#) for details.

Don't show this page again

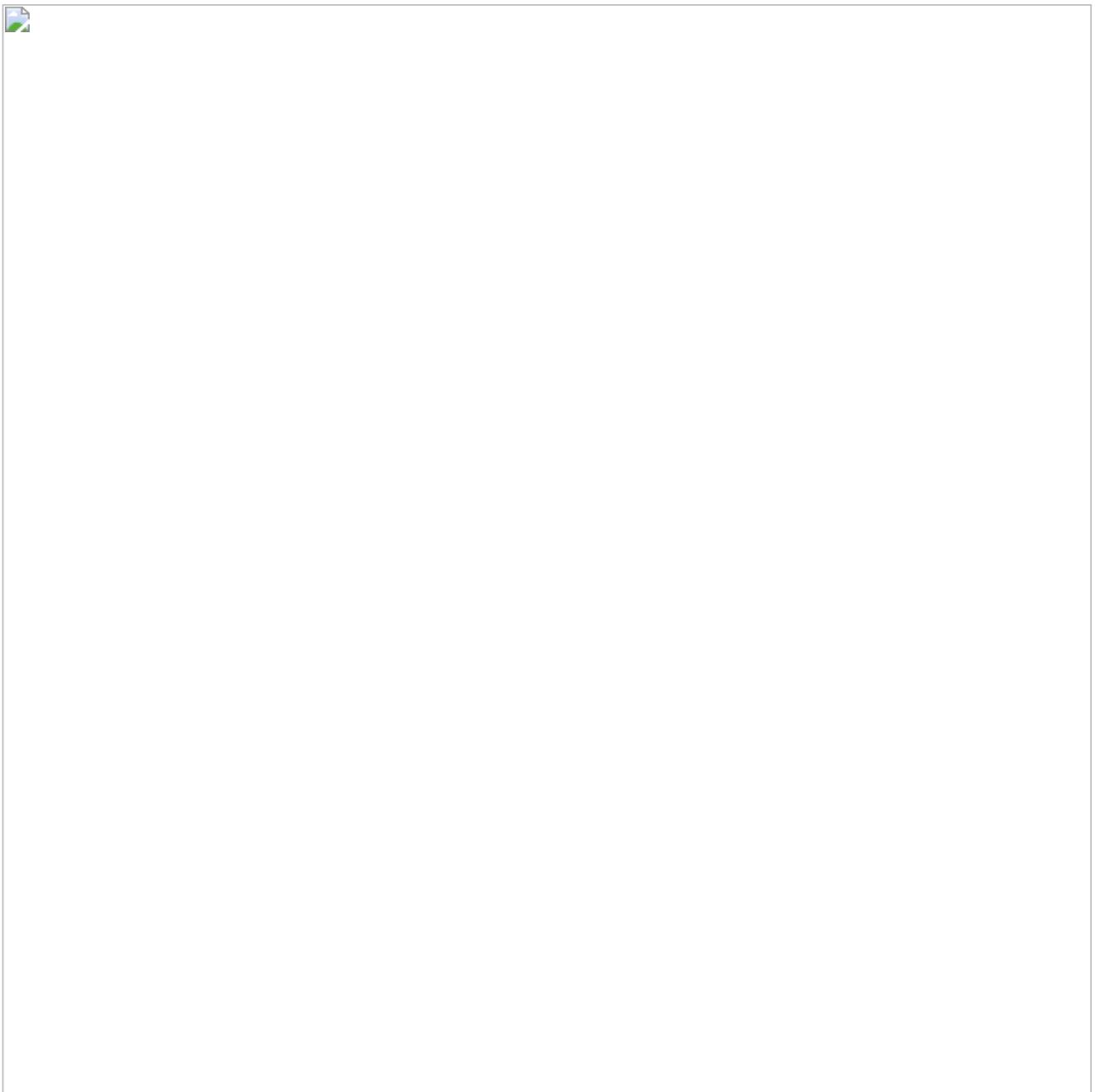
**Step 18**

To further configure the hardware settings of your Windows 10 guest system, click Edit Virtual Machine Settings from the Workstation interface.



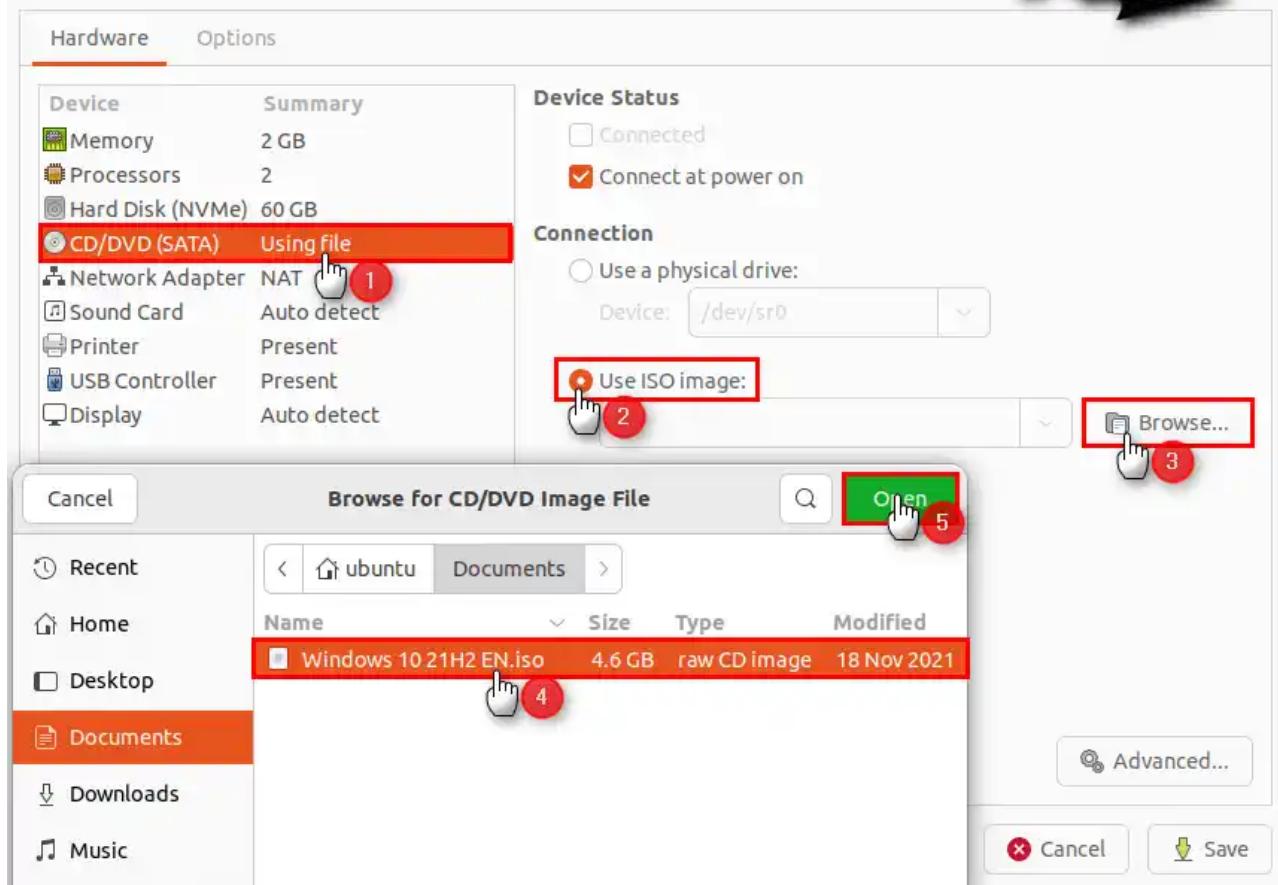
## Step 19

To increase the performance of the Windows 10 virtual PC, open the processor's hardware settings, tick all the features in the Virtualization Engine section, and close the window.



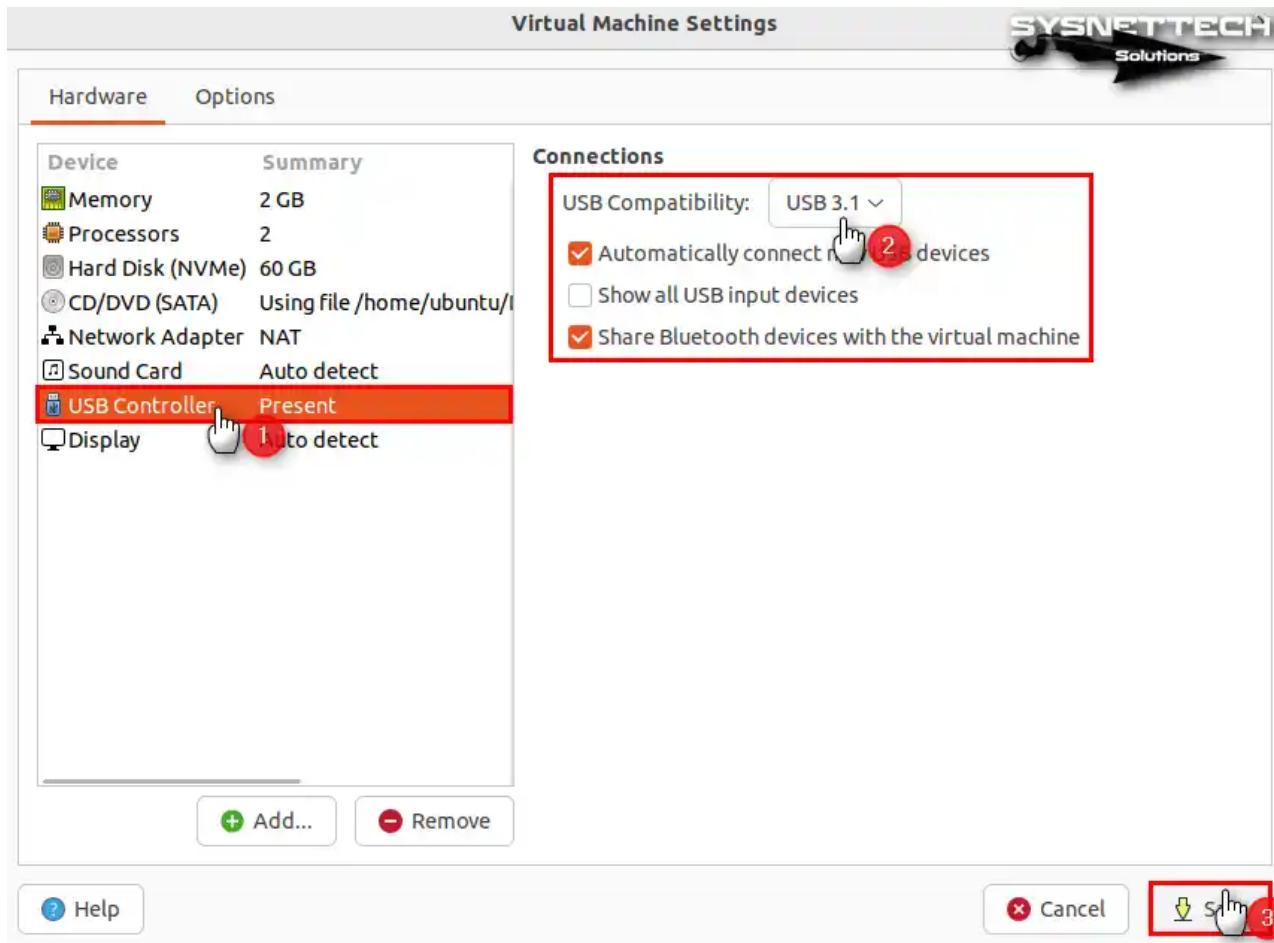
## Step 20

After selecting the CD/DVD device from the Hardware section, select the Use ISO Image option and then click Browse to specify the location of the image file. Next, select the Windows 10 image file you downloaded to your Linux computer and click Open.



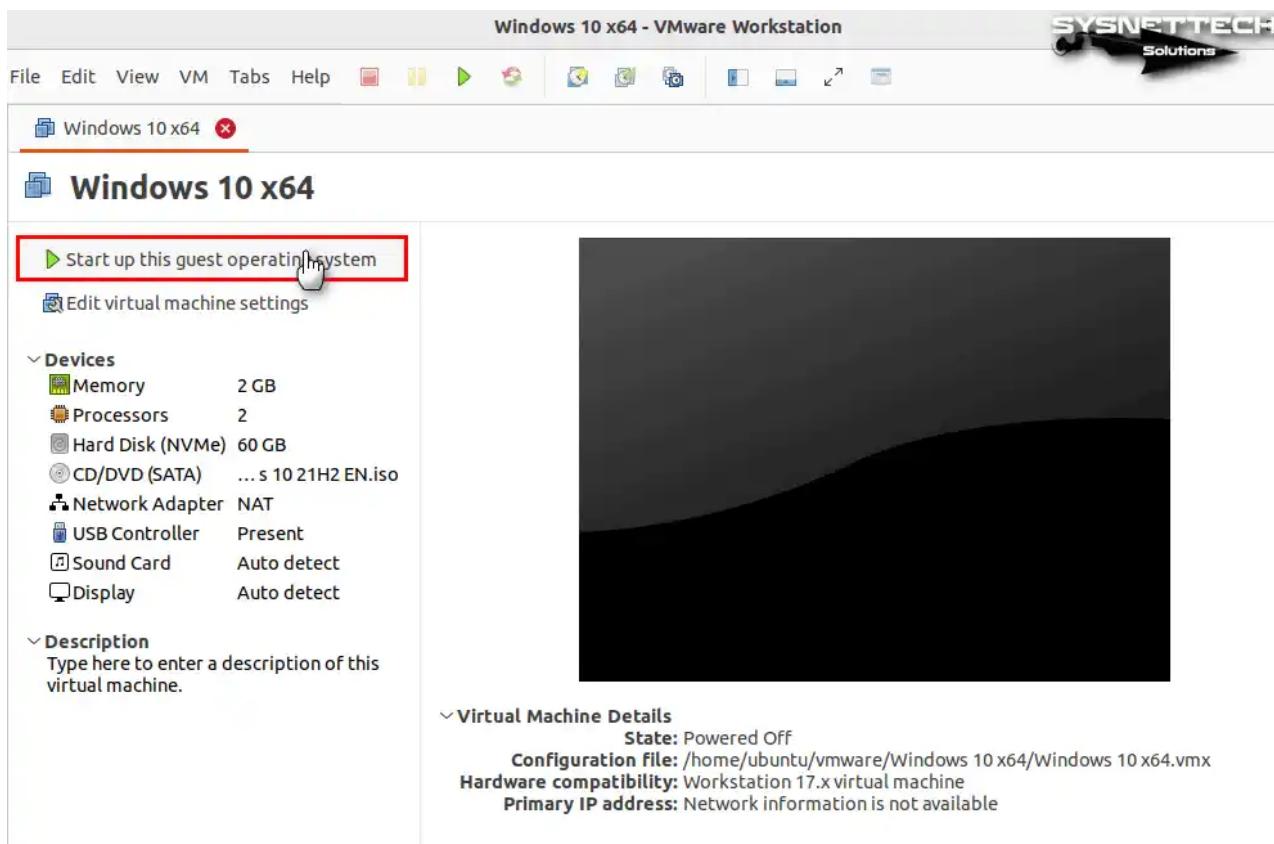
## Step 21

For faster file transfer on your Windows 10 VM, select the USB 3.x controller from the USB hardware settings and close the settings window.



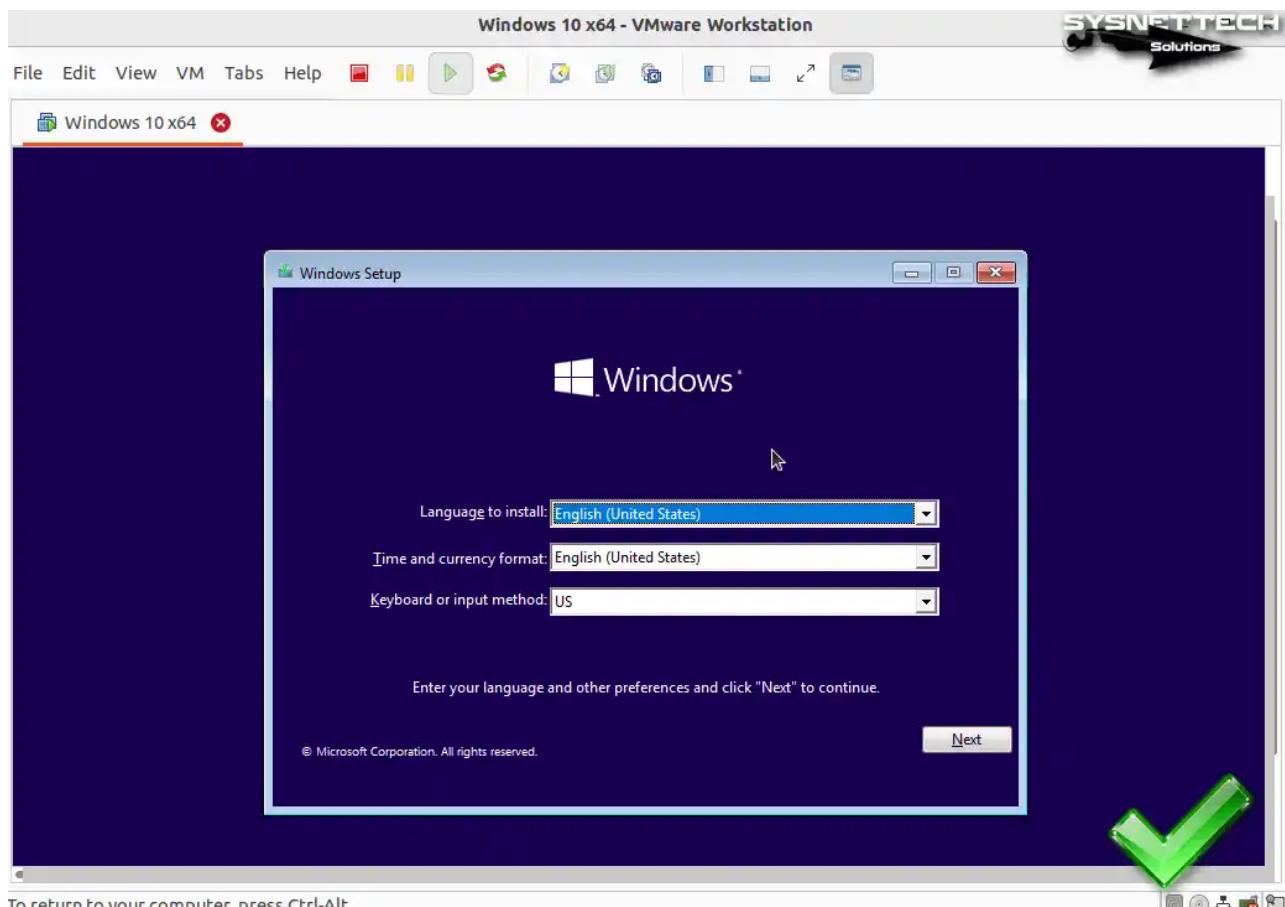
## Step 22

Click the “Start up this guest operating system” to run your Windows 10 x64 virtual machine.



## Step 23

The Windows setup window will open after pressing any key on your keyboard to start the installation during the Windows 10 operating system boot phase.

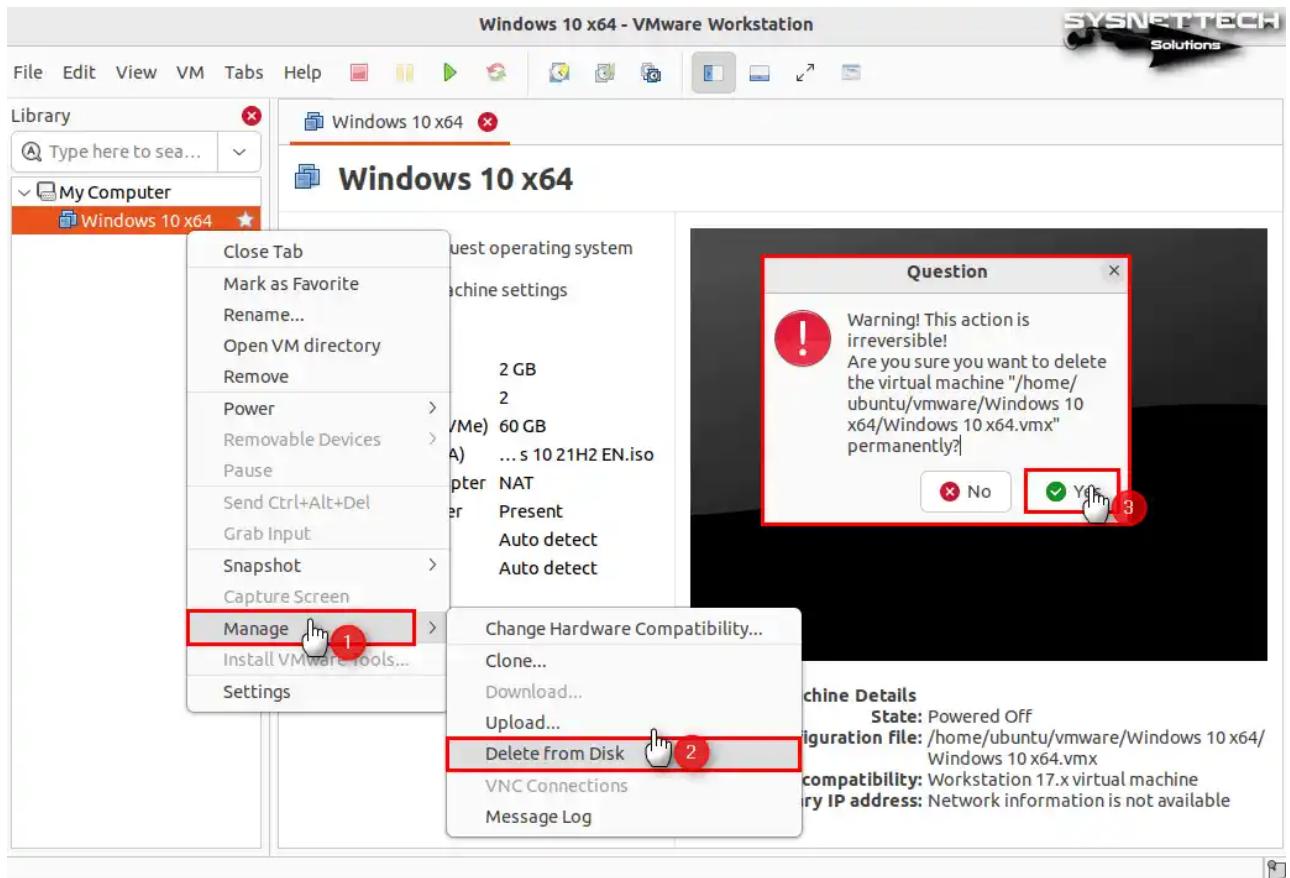


To return to your computer, press Ctrl-Alt.

## How to Delete the Virtual Machine

When you decide not to use the guest virtual systems you have installed on Ubuntu or other Linux platforms, you can quickly delete them entirely from the virtual machine library of the Workstation software.

To thoroughly delete all files related to Windows 10 VM from your host disk, right-click on it, click Manage / Delete From Disk, and click Yes to confirm the deletion of all files in the window that opens.



## How to Uninstall VMware Workstation

You can quickly remove the VMware virtualization software that you have installed on your Linux/Ubuntu system by using the terminal.

Open the terminal and execute the command “vmware-installer –list-products” to list the VMware products installed on your system.

```
vmware-installer --list-products  
OR  
vmware-installer -l
```

Then, after checking that the VMware Workstation program is installed on your system, execute the “sudo vmware-installer -u vmware-workstation” command to remove it from your system entirely.

```
sudo vmware-installer -u vmware-workstation
```

```
ubuntu@ubuntu:~$ vmware-installer --list-products
Product Name          Product Version
=====
vmware-workstation    17.0.0.20800274
ubuntu@ubuntu:~$ sudo vmware-installer -u vmware-workstation
[sudo] password for ubuntu:
All configuration information is about to be removed. Do you wish to
keep your configuration files? You can also input 'quit' or 'q' to
cancel uninstallation. [yes]: no

Uninstalling VMware Installer 3.1.0
  Deconfiguring...
[########################################] 100%
Uninstallation was successful. ← → ✓
ubuntu@ubuntu:~$
```

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Video

## Installing Old Versions

Ubuntu	VMware Workstation	YouTube Video	Slide
17.04	14 Pro	<a href="#">Watch</a>	—
17.10	14 Pro	<a href="#">Watch</a>	<a href="#">View</a>
18.04	14 Pro	<a href="#">Watch</a>	<a href="#">View</a>
18.10	14 Pro	<a href="#">Watch</a>	—
18.10	15 Pro	<a href="#">Watch</a>	<a href="#">View</a>
20.10	16 Pro	<a href="#">Watch</a>	—
21.10	16 Pro	<a href="#">Watch</a>	<a href="#">View</a>
22.04	16 Pro	<a href="#">Watch</a>	<a href="#">View</a>
22.10	16 Pro	<a href="#">Watch</a>	<a href="#">View</a>
22.10	17 Pro (NEW)	<a href="#">Watch</a>	—

Old Ubuntu Versions and Resources

## Possible Installation Errors

### Unable to copy the user's Xauthorization File Error

This error usually appeared when installing on Ubuntu 17.04 and 17.10. To resolve the Xauthorization error, execute the commands below in the order in the terminal and try to open the VM again.

```
touch ~/.Xauthority  
chmod 600 ~/.Xauthority
```

## GCC7 Error

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The GCC7 error appeared during installation on Ubuntu 18.04 or 18.10. To resolve this error, it will be sufficient to execute the following command in the terminal.

```
sudo apt install gcc-7
```

## Conclusion

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In conclusion, VMware Workstation 17 Pro gives you a powerful virtualization solution in Ubuntu 23.10 & 22.04. Additionally, it is ideal for running multiple operating systems. By following the steps I have professionally outlined in this article, you can install VMware Workstation without any problems. However, you can create virtual machines and install various operating systems on your host system.

Also, if you are testing any software or developing applications, VMware Workstation provides flexibility. It is also suitable for those who want to explore different operating systems. In this way, you can run multiple virtual computers simultaneously. All in all, this VM software is a valuable tool for both personal and professional use.



## TolgaBagci

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Hi, I'm Tolga, a computer expert with 20 years of experience. I help fix computer issues with things like hardware, systems, networks, virtualization, servers, and operating systems. Check out my website for helpful info, and feel free to ask me anything. Keep yourself in the loop about the newest technologies!