

Module 3- WINDOWS INSTALLATION AND CONFIGURATION

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DIFFERENT WAY TO INSTALL WINDOWS

Install windows with an USB key



What you need

- Windows 10 install .iso or DVD
- USB flash drive with at least 5GB free space. This drive will be formatted, so make sure it doesn't have any important files on it.
- Technician PC - Windows PC that you'll use to format the USB flash drive
- Destination PC - A PC that you'll install Windows on

Step 1 - Format the drive and set the primary partition as active

1. Connect the USB flash drive to your technician PC.
 2. Open Disk Management: Right-click on **Start** and choose **Disk Management**.
-
1. Format the partition: Right-click the USB drive partition and choose **Format**. Select the **FAT32** file system to be able to boot either BIOS-based or UEFI-based PCs.
-
1. Set the partition as active: Right-click the USB drive partition and click **Mark Partition as Active**.

Step 2 - Copy Windows Setup to the USB flash drive

1- Use File Explorer to copy and paste the entire contents of the Windows product DVD or ISO to the USB flash drive.

• Step 3 - Install Windows to the new PC

1. Connect the USB flash drive to a new PC.

2. Turn on the PC and press the key that opens the boot-device selection menu for the computer, such as the Esc/F10/F12 keys. Select the option that boots the PC from the USB flash drive.

3. Windows Setup starts. Follow the instructions to install Windows.

4. Remove the USB flash drive.

Installing windows with DVD



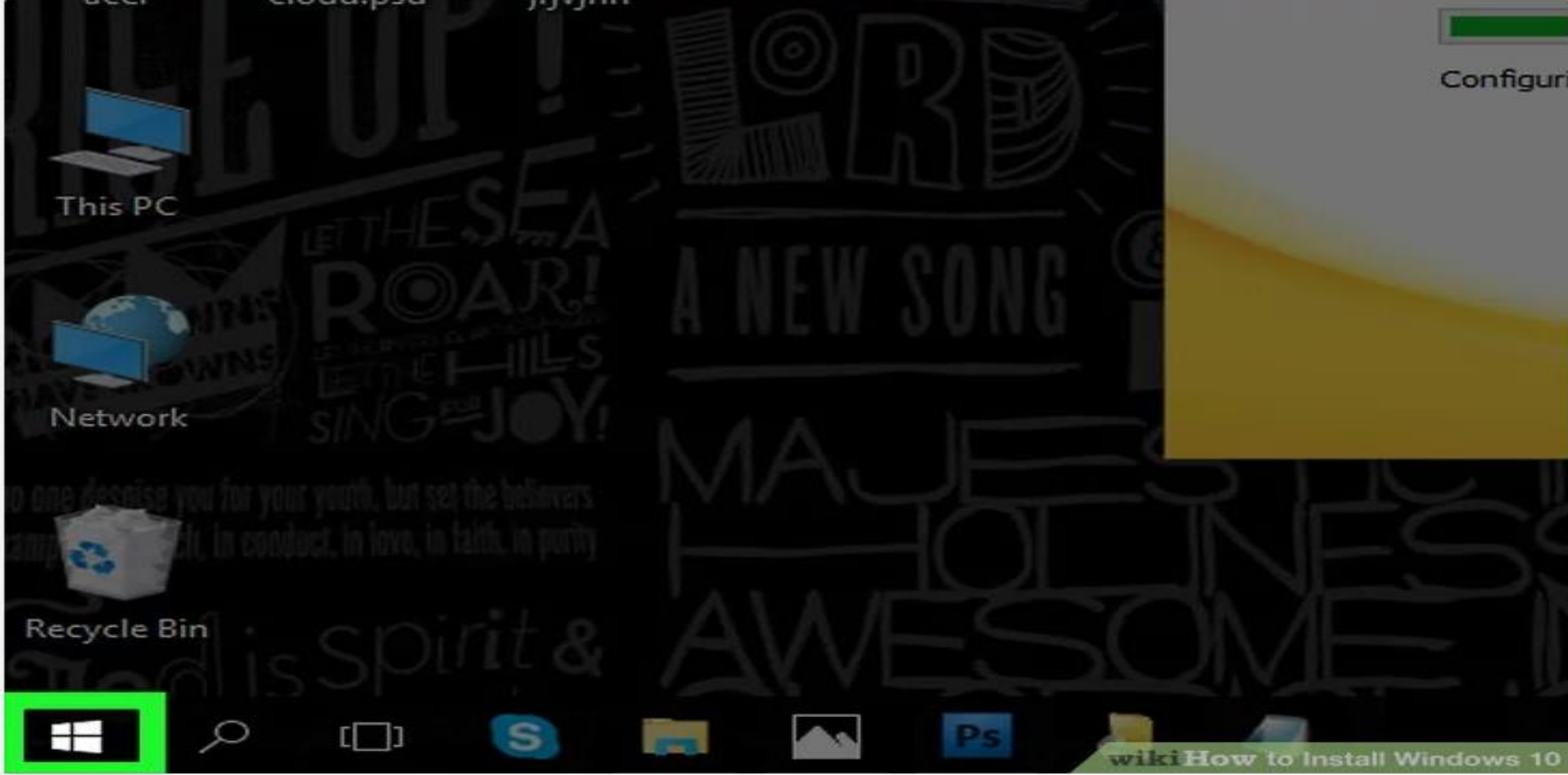
Part 1

Booting to the Windows 10 Installer

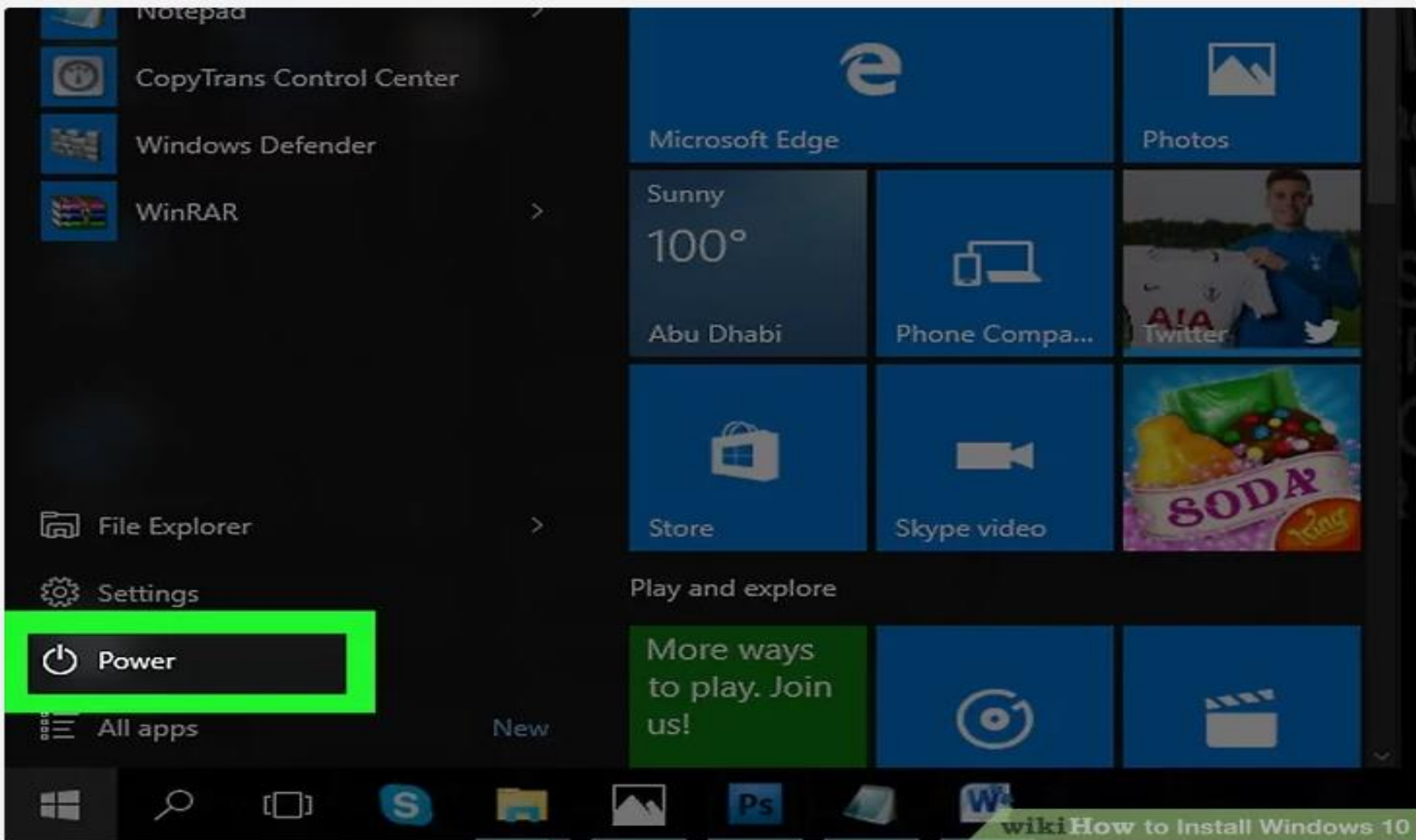


wikiHow to Install Windows 10

- 1** **Make sure your Windows 10 installation media is connected.** In order for you to install Windows 10, your Windows 10 installation file must be loaded onto a disc or flash drive, and the disc or flash drive must be inserted into your computer.

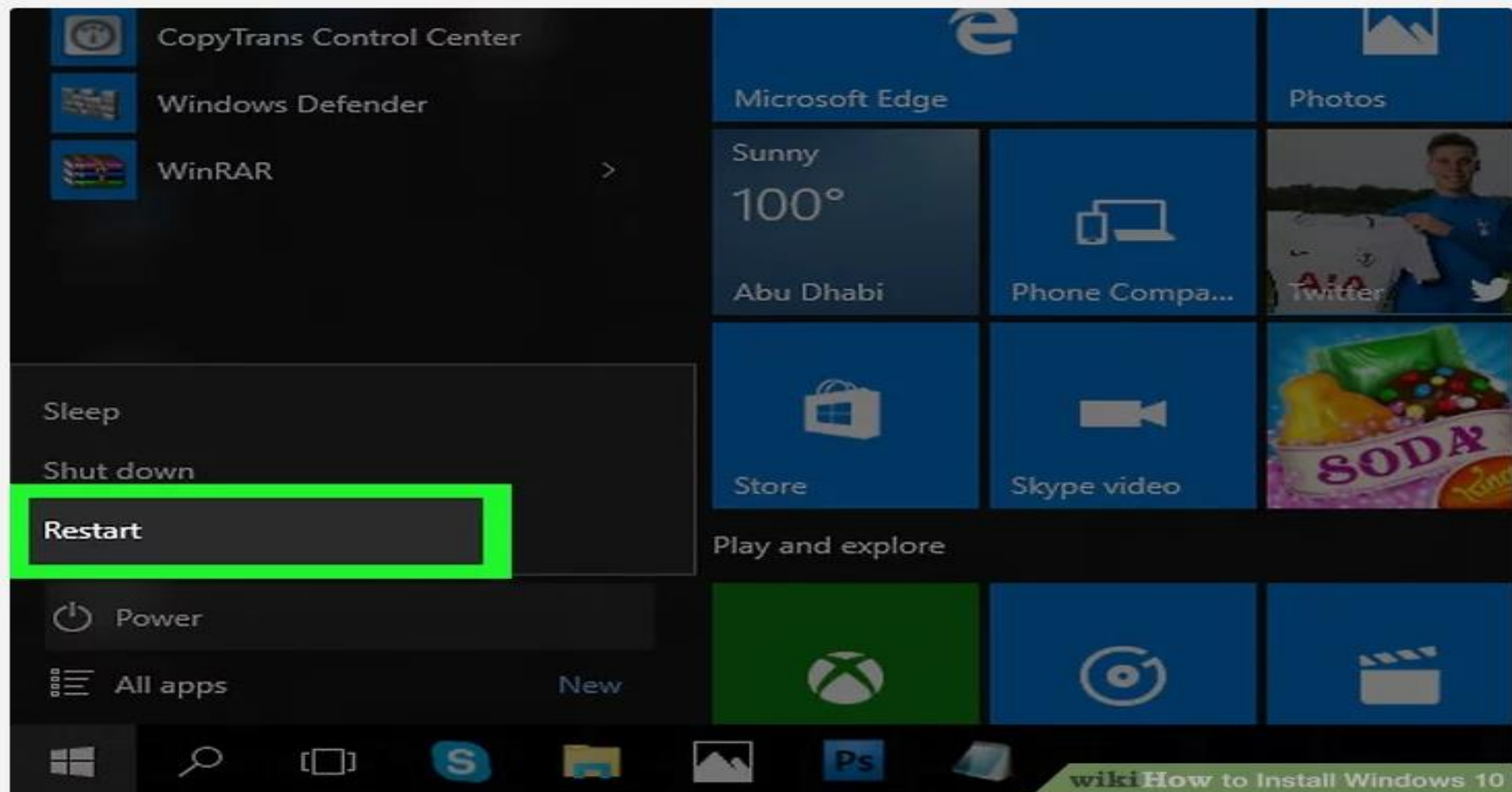


- 2 Open the Start menu.** Either click the Windows icon in the bottom-left corner of the screen, or press the **Win** key.



3

Click the power icon. This is the circle with a line through its top that's in the bottom-left corner of the Start window.



- 4 Click **Restart**. It's in the pop-up menu above the power icon. Doing so will restart your computer.



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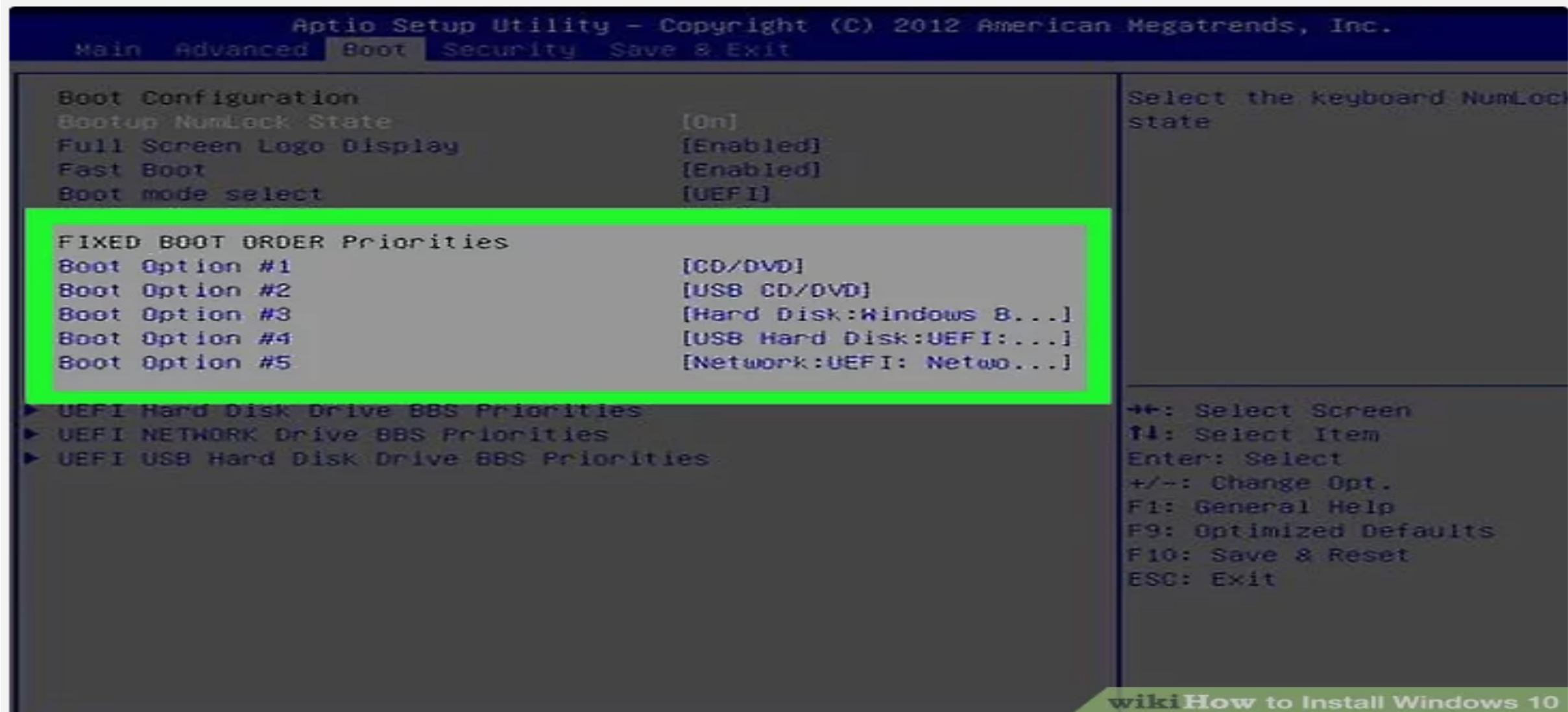
5 Press and hold **Del** or **F2** to enter setup. This key may also be a different key—most computers will display a message on startup that says "Press [key] to enter setup" or something similar, so look for this message when your computer restarts to confirm the key you should press to [access the BIOS](#).

- Consult your computer's manual or online support page to confirm your computer's BIOS key.



6 Navigate to the **Boot** tab. You'll use the arrow keys to select it.

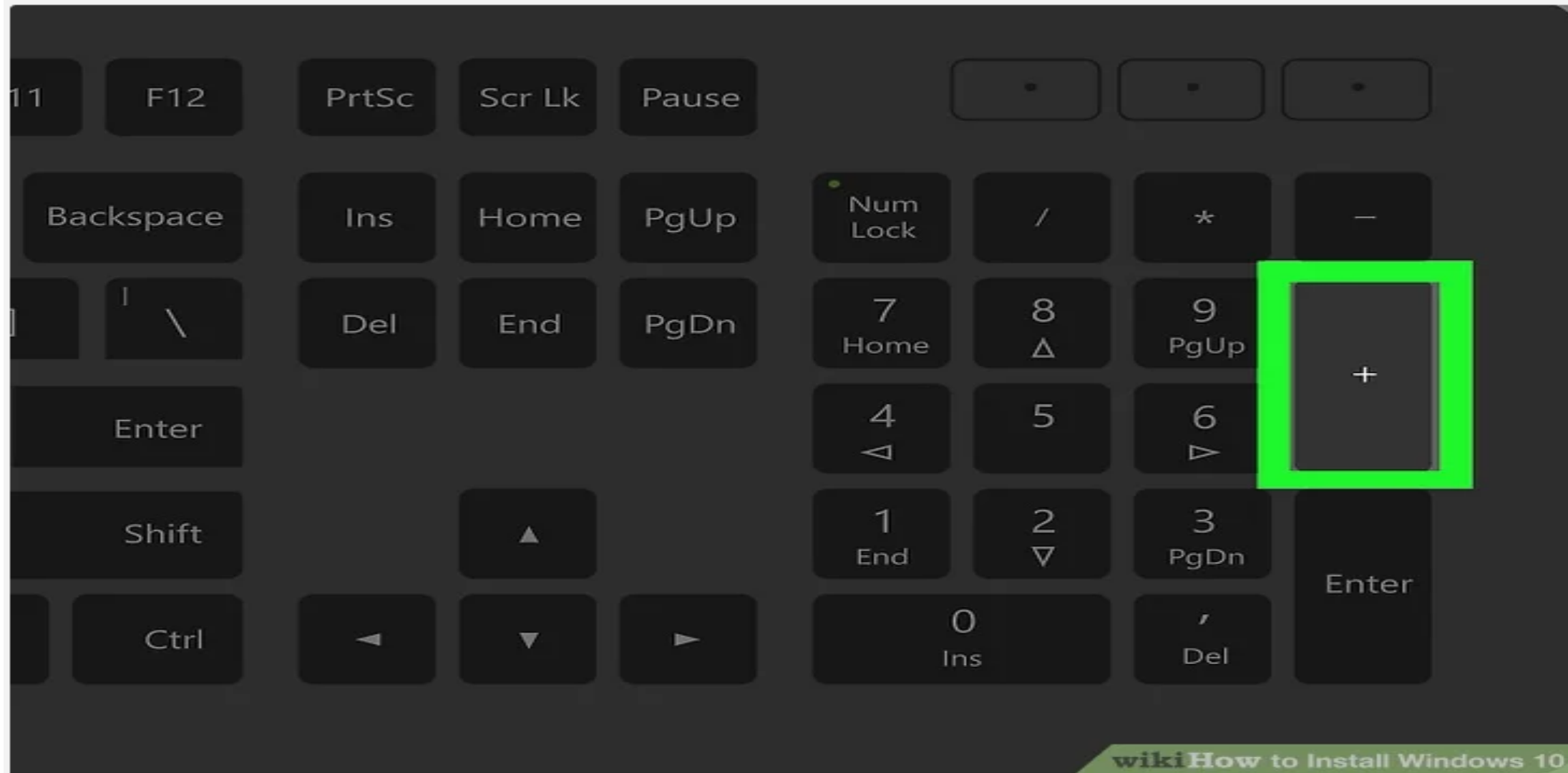
- The **Boot** tab may instead say **Boot Options**, depending on your computer's manufacturer.



7

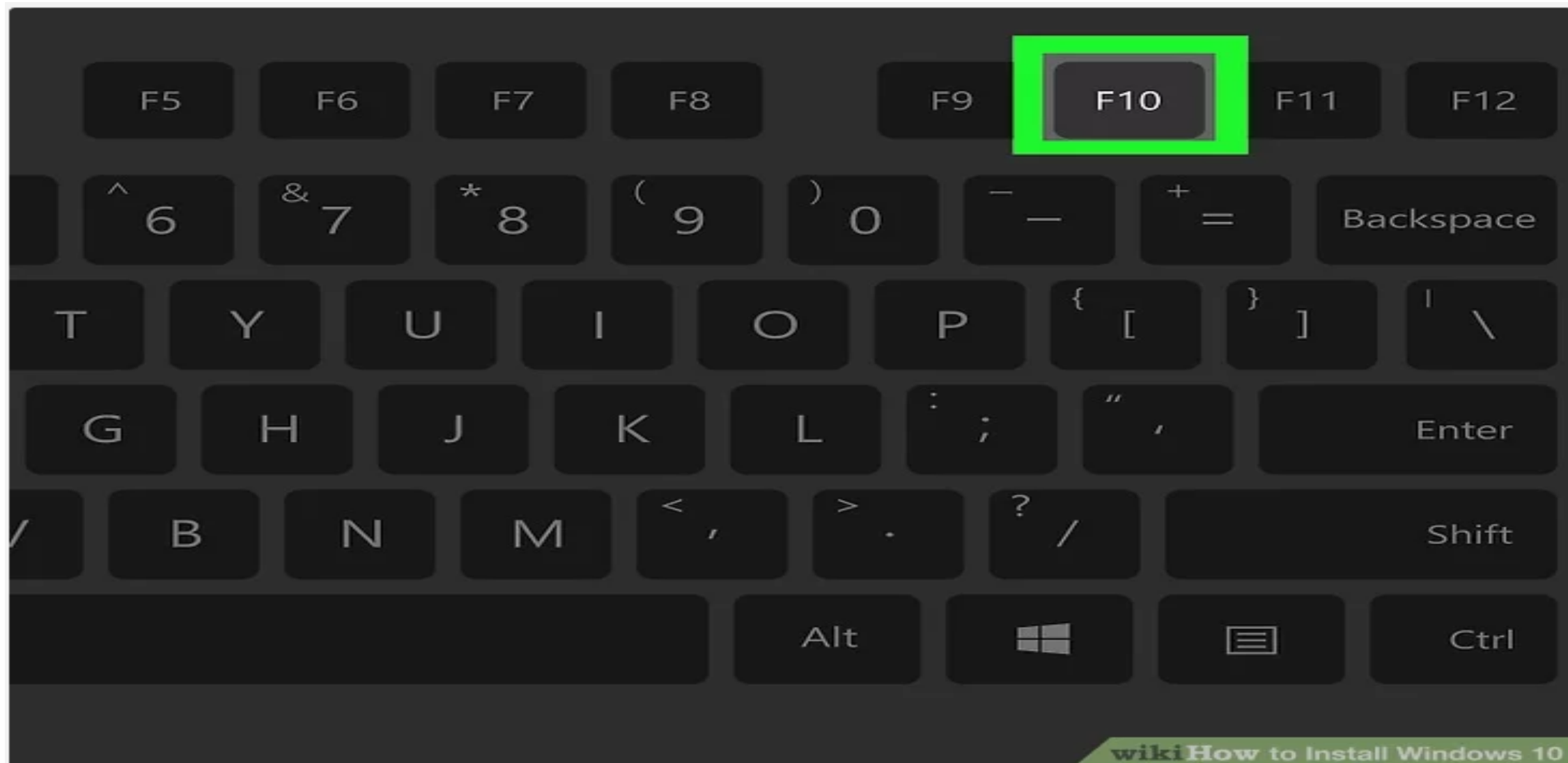
Select a device from which to boot. You have a couple of options here:

- For a **USB flash drive**, select the **Removable Devices** option.
- For a **disc installation**, select the **CD-ROM Drive** option.



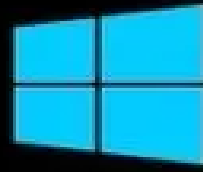
8 Press the **+** key until your boot option is first. Once either **Removable Devices** or **CD-ROM Drive** is at the top of the list, your computer will select your choice as its default boot option.

- On some computers, you'll instead press one of the **function keys** (e.g., **F5**) to navigate an option up to the top of the menu. The key will be listed on the right side of the screen.



9 Save your settings. You should see a key prompt (e.g., **F10**) at the bottom of the screen that correlates to "Save and Exit"; pressing it should save your settings and restart your computer.

- You may have to press **Enter** to confirm the changes.



10 Wait for your computer to restart. Once your computer finishes restarting, you'll see a window here with your geographical data. You're now ready to begin setting up your Windows 10 installation.



1

Click **Next when prompted.** You can also change the options on this page (e.g., the setup language) before continuing if need be.

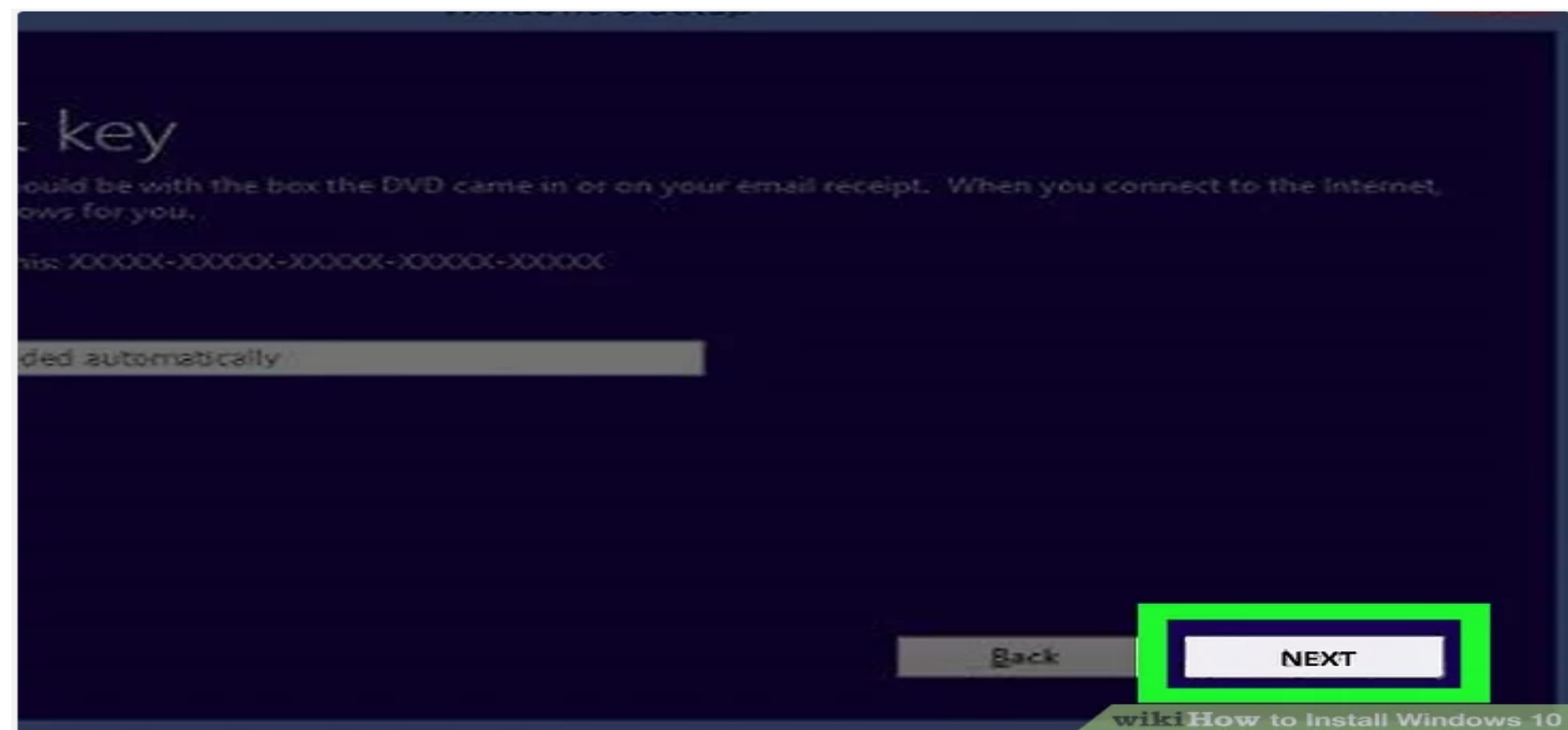
Setup



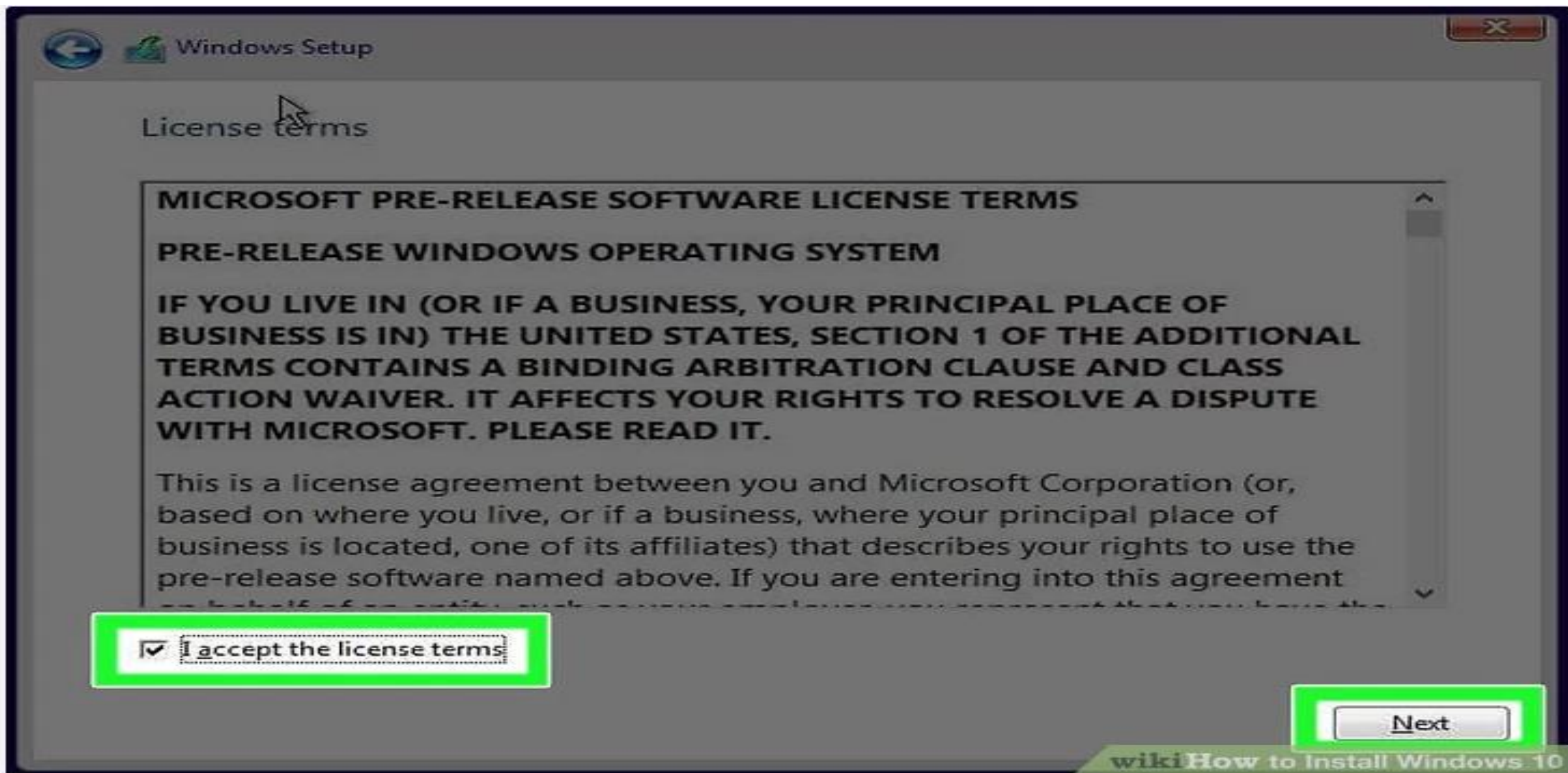
Install now

wikiHow to Install Windows 10

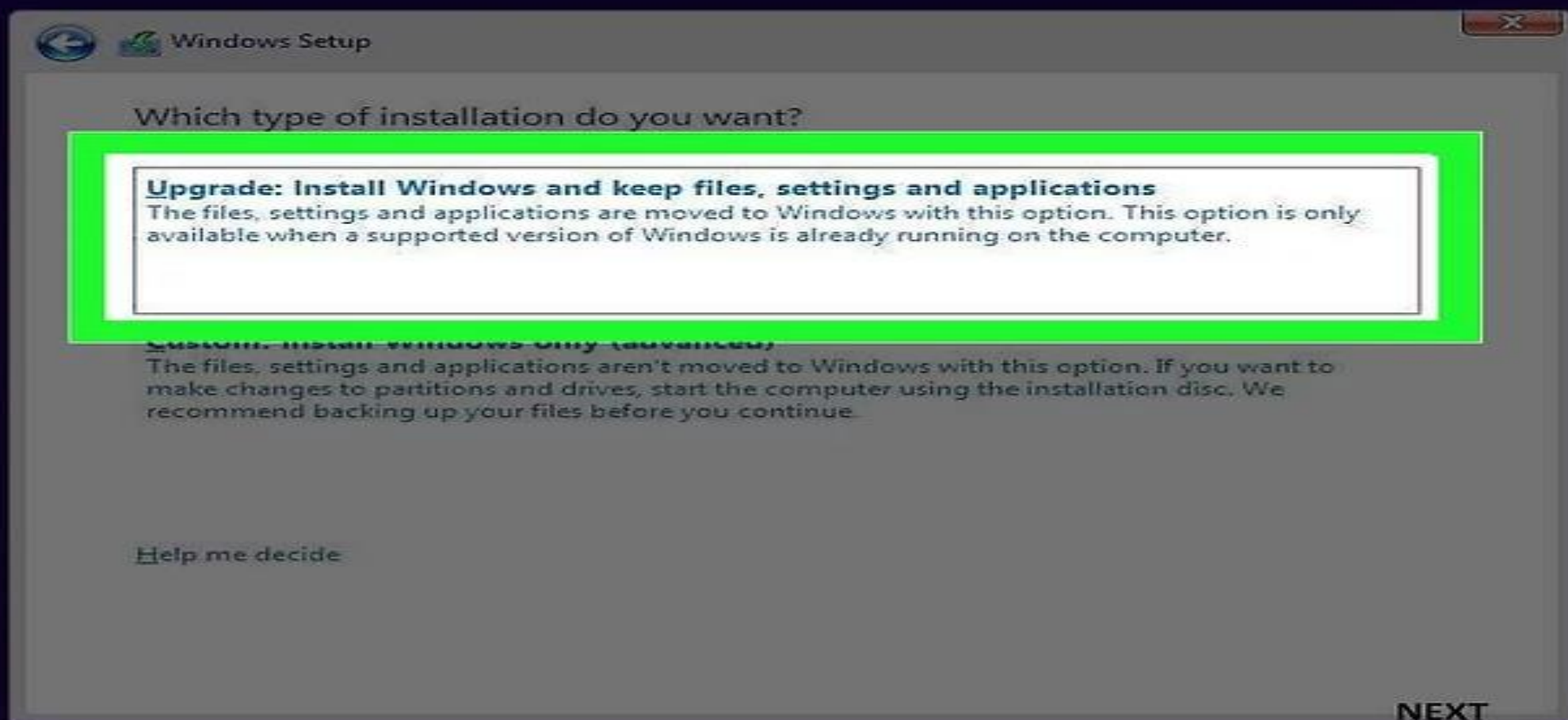
2 Click **Install Now**. It's in the middle of the window.



- 3** Enter your Windows 10 key, then click **Next**. If you don't have a Windows 10 key, instead click **Skip** in the bottom-right corner of the screen.



- 4** Click the "Accept" box and click **Next**. This will indicate that you accept the terms of use.



5 Click **Upgrade**. It's at the top of the "Which type of installation do you want?" window. This option installs Windows 10 while preserving your files, apps, and settings.

- You can click **Custom** instead to clean install Windows 10 on your computer. Doing so will prompt you to select a partition to format before continuing.

Status



Copying Windows files

Getting files ready for installation (0%)

Installing features

Installing updates

Finishing up

wikiHow to Install Windows 10

6 Wait for Windows 10 to install. This process may take anywhere from half an hour to several hours, depending on your computer's previous operating system and processing speed.

- If prompted to press a key in order to boot from a CD, *do not press a key*.

7 Follow the on-screen setup instructions. Once Windows 10 has been installed on your computer, you'll be able to customize its settings (e.g., your region, your preferred language, location settings, etc.). Once you finish this process, you will be taken to your computer's desktop.

- You can also click **Express Settings** to set up Windows 10 with the recommended settings.

Downloading the OS on Microsoft website

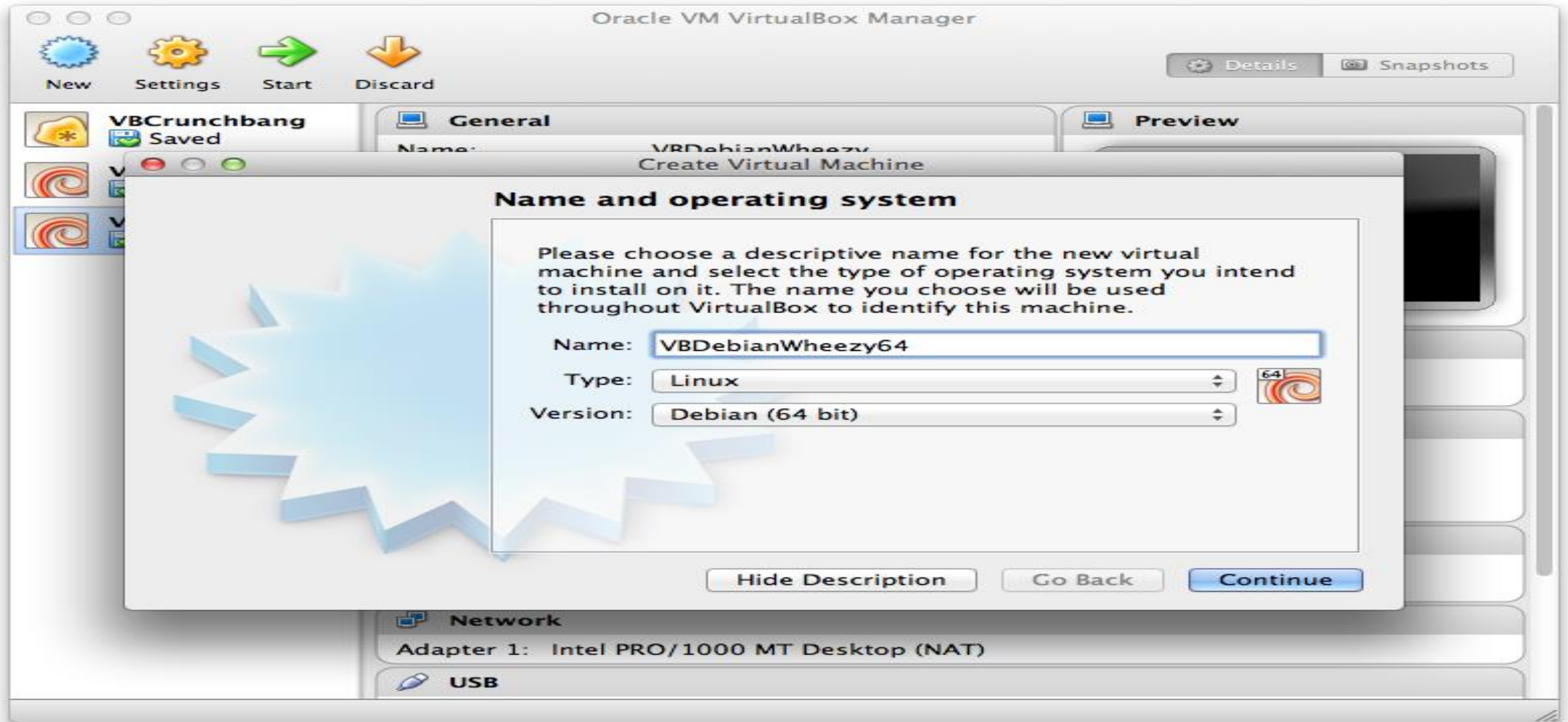
Windows server 2016

LINK: <https://www.microsoft.com/en-us/evalcenter/evaluate-windows-server-2016>

Windows 10

<https://www.microsoft.com/en-us/evalcenter/evaluate-windows-10-enterprise>

Creating virtual Machine



Adding resources to virtual machine(VM)

- **verify if you have enough resources in your physical machine.**
- **add cpu and memory (ram) to VM**

HOSTNAME AND SYSTEM INFORMATION

- How to change hostname

The hostname is a freely selectable name for a host. For example, you could call a server in a company network responsible for the central administration of emails “mail” or “mail123”.

- Check system Information

Windows server GUI overview

- Desktop
- Start menu
- Task bar
- Search bar

QUIZ

1) Which one of the following is not a method to install an operating system?

- a) Attached ISO
- b) Run executable file in BIOS
- c) Network Boot
- d) Insert a CD or DVD

2) Which of the following can be pre-installed with the hardware?

- a) User application
- b) Operating system
- c) None of the above

3) What is the url to download Microsoft Windows Server ISO?

- a) [Technet.windows.com](http://technet.windows.com)
- b) [Microsoft.technet.com](http://microsoft.technet.com)
- c) [Technet.Microsoft.com](http://technet.microsoft.com)

QUIZ

4) For how many days Windows evaluation is for?

a) 172 ; b) 190 ; c) 180 ; d) 150

5) Which key can use used to release mouse from the VM window?

a) Esc b) Alt+Ctrl+Del c) Enter d) Right Ctrl

6) Which Windows 2016 operating system has the most features?

a) Windows server Datacenter (Desktop experience)

b) Windows 2016 Datacenter

c) Widows 2016 standard Evaluation (Desktop experience)

d) Windows 2016 Standard Evaluation

QUIZ

8) Which of the following resources can be added to a VM?

- a) Ram b) Hard drive c) CPU d) All of the above

9) How to change Windows server hostname?

- a) Server Manager then tools then computer management
- b) Server Manager then Manage then Server Manager properties
- c) Server Manager then tool then computer services
- d) My pc then properties then change settings

HOMEWORK

- Download Windows Server 2016
- Install Windows Server "Windows 2016 Datacenter (Desktop Experience)"
- Add additional CPU and 2G of memory to Windows VM
- Change Windows VM resolution to fit your screen
- Change the hostname and look for system information
- Familiarize yourself with Windows Server GUI specially, "Desktop, Start Menu, Task Bar and Search Bar"