Windows 10 Installation Guide

Complete Step-by-Step Visual Tutorial

🎯 Aim

Objective: To install Windows 10 Operating System on a computer system with complete understanding of the installation process, requirements, and post-installation configuration.

System Requirements

Processor

1 GHz or faster

Compatible with 64-bit or 32-bit processor

RAM Memory

2 GB (64-bit)

1 GB for 32-bit systems

Storage Space

20 GB or more

For 64-bit installation

Graphics Card

DirectX 9+

WDDM 1.0 driver

Display

800x600 resolution

Minimum screen size

Internet

Required

For updates & activation

Prerequisites - Before Installation

Pre-Installation Checklist

- [x] **Backup all important data** - Save files to external drive or cloud storage
- [x] **Windows 10 ISO file** - Downloaded from Microsoft official website
- [x] **Bootable USB drive** - Minimum 8GB USB flash drive
- [x] **Product Key** - Valid Windows 10 license key (if required)
- [x] **Device Drivers** - Download essential drivers beforehand
- [x] **Stable Power Supply** - Ensure uninterrupted power during installation

Creating Bootable USB Drive

1 Download Media Creation Tool

Visit Microsoft's official website and download the Windows 10 Media Creation Tool. This free tool will help create a bootable USB drive.

2 Run Media Creation Tool

Launch the tool with administrator privileges. Accept the license terms when prompted.

3 Choose "Create installation media"

Select the option to create installation media (USB flash drive, DVD, or ISO file) for another PC.

4 Select Language, Edition, and Architecture

Choose your preferred language, Windows 10 edition (Home/Pro), and architecture (64-bit recommended).

5 Choose USB Flash Drive

Select your USB drive from the list. Warning: All data on the USB will be erased!

Windows 10 Installation Process

1 Insert Bootable USB and Restart

Insert the bootable USB drive into your computer and restart the system. The computer needs to boot from the USB drive.

2 Enter BIOS/UEFI Settings

Press the BIOS key during startup (usually F2, F12, DEL, or ESC - depends on manufacturer). Change boot priority to boot from USB first.

Installing Windows 10 from bootable USB

Step 01: Plug in the bootable USB in to system unit.

Step 02: Restart the computer.

Step 03: In some computers you need to change BIOS boot sequence, to do this:

- Access BIOS setup by pressing setup key continuously at restart
- Set USB as first bootable device in boot sequence.
- Save changes and exit the setup.

In other computers you just need to access boot order and select the bootable USB.

Note: Setup key on different computer vary, some of the possible keys are: Esc, Del, F2, F10)

Step 04: Computer now loads windows files from USB.

Step 05: Click Install Now to start.

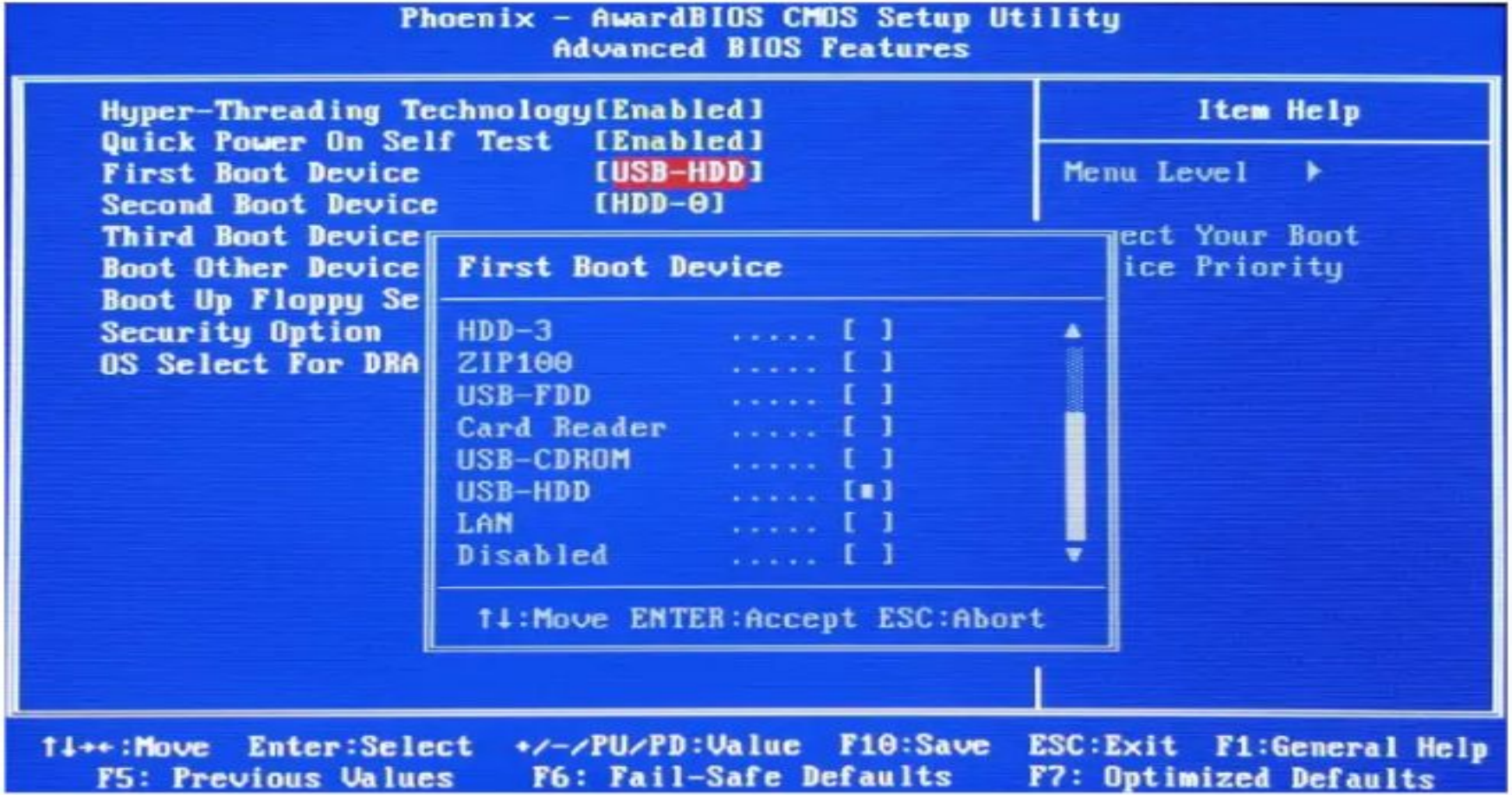

Figure 1.2: Setting USB as first bootable device in BIOS

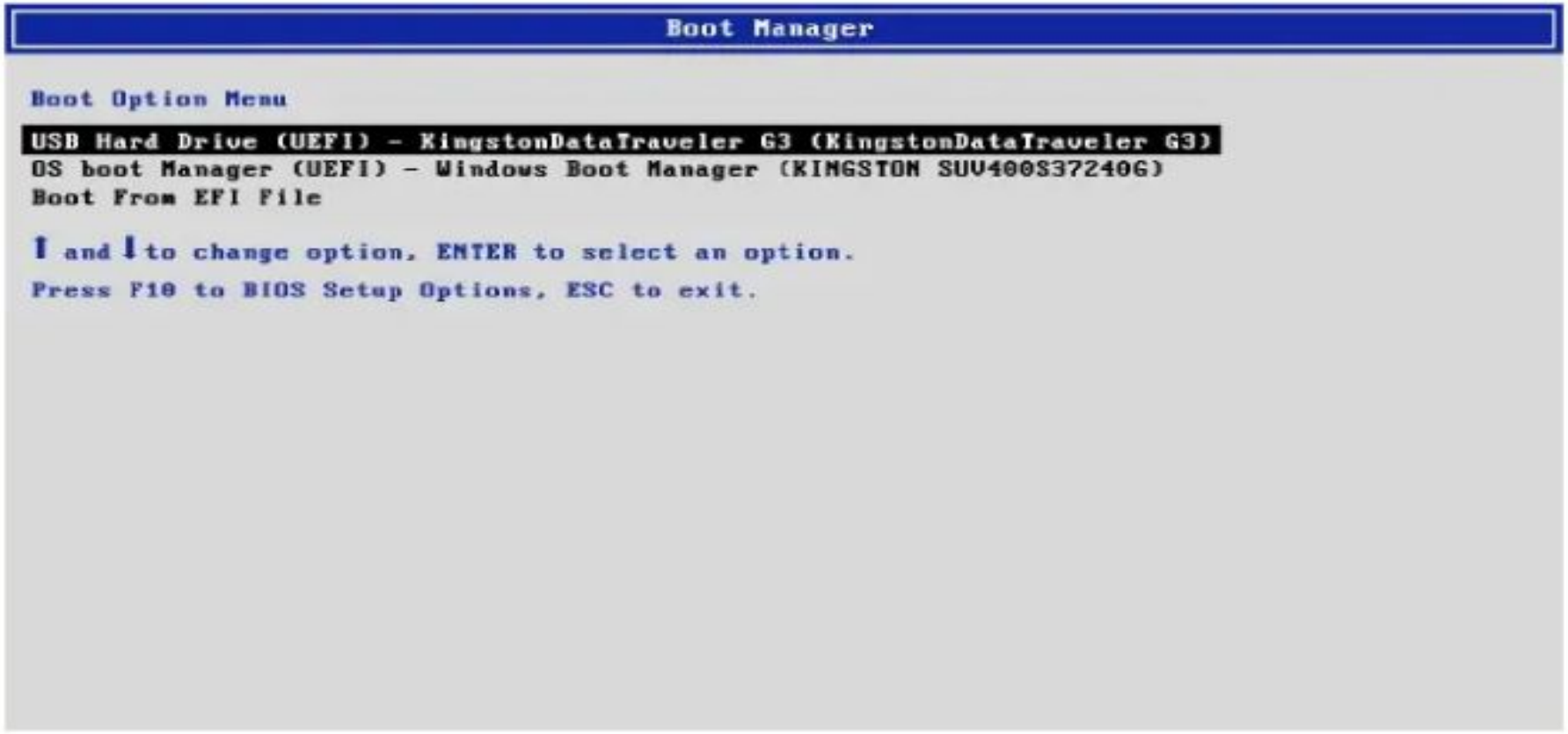

Figure 1.3: Selecting boot from USB-HDD

Figure 1.4: Step 05 – Click to install windows

Step 06: Enter Windows 10 product key and press Next (if available).

Step 07: Check "I accept the license terms to agree" and press Next.

Step 08: Click "Custom: Install Windows only (Advanced)".

Step 09: Select and remove all partitions from the Disk.

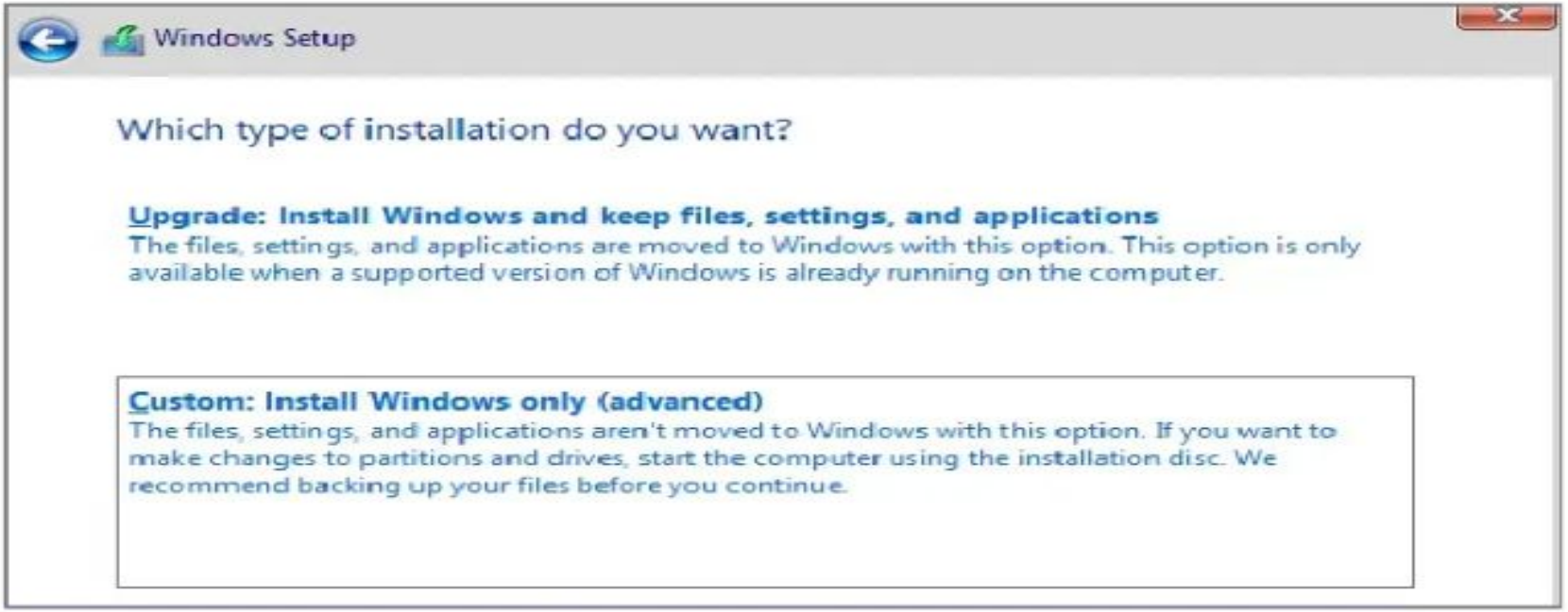

Figure 1.5: Step 08 – Click Custom Install for fresh installation

Step 10: Select unallocated space and click New, specify the size in MBs for new partition.

Step 11: Similarly create other partitions.

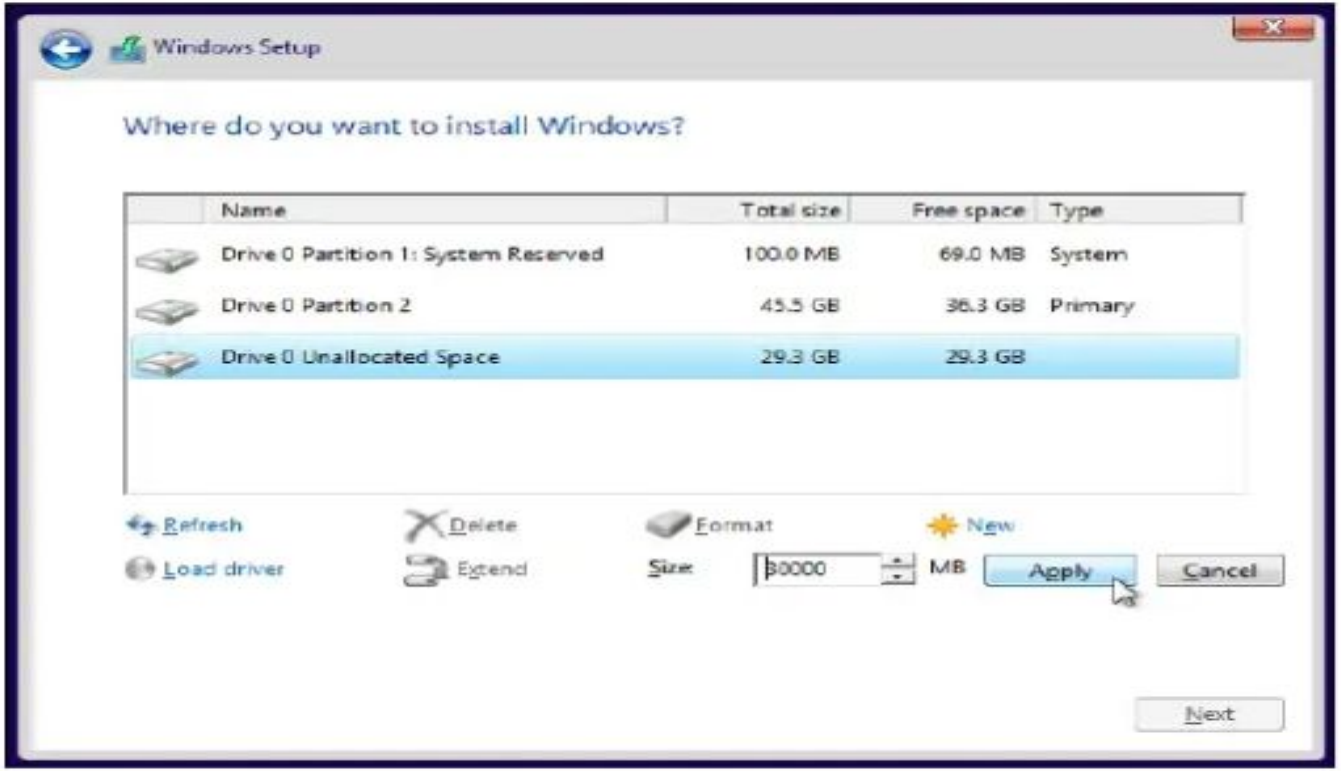

Figure 1.6: Step 09, 10 & 11 – Deleting and creating partitions

Step 13: The setup will now be copying files and installing the windows (this may take several minutes depending on your system configuration).

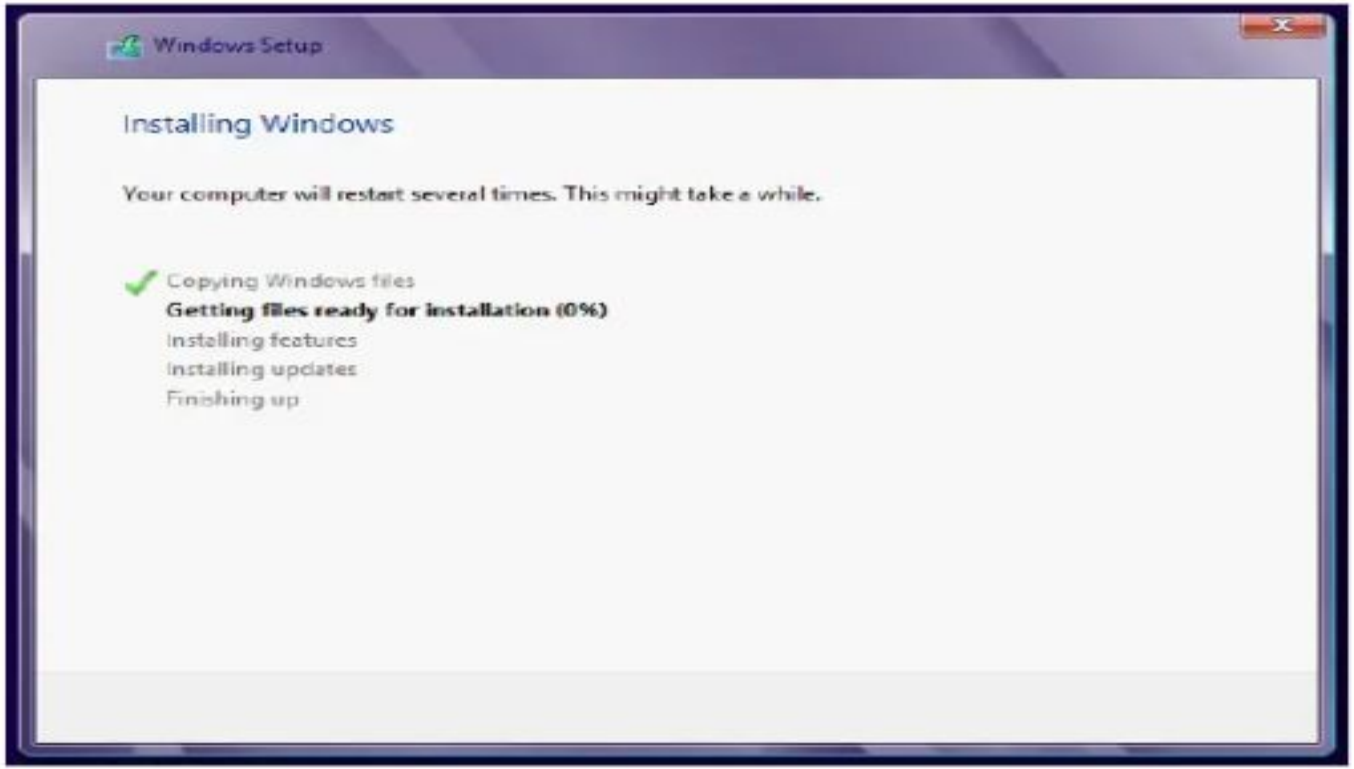

Figure 1.7: Step 09, 10 & 11 – Copying files and installing windows

Step 14: After the installation is completed, the computer will reboot.

Step 15: Remove the USB from the computer.

Step 16: The setup will now be getting the device ready to use.

Figure 1.8: Step 16 – Getting device ready

Step 17: Click the "Use Express Setting" to use default settings.

Step 18: Skip the Microsoft account login.

Step 19: Create your user account by providing the username and password.

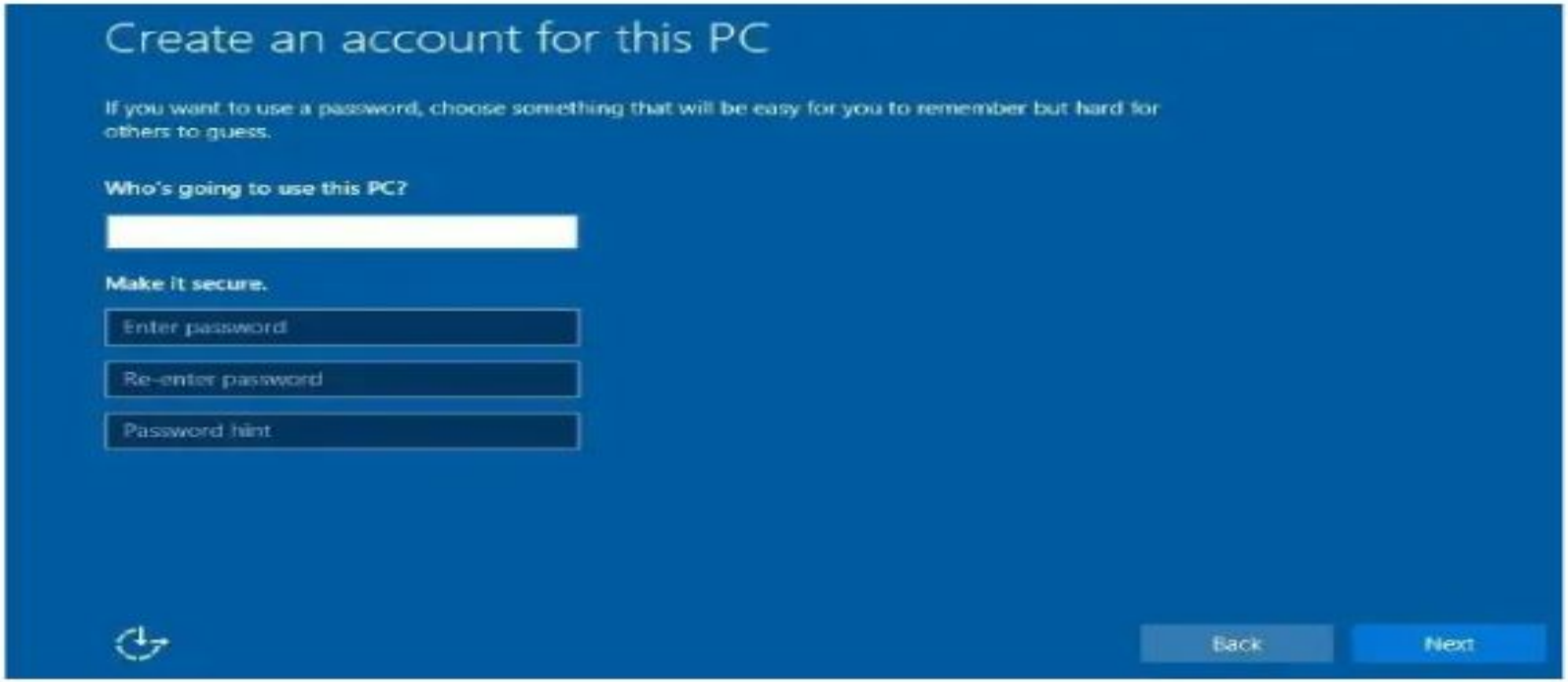

Figure 1.9: Step 19 – Creating user account

Step 20: Wait until the setup configures the setting and installs the default Apps.

Step 21: The setup has successfully installed windows 10 and the desktop appears.

Figure 1.10: Step 21– Windows 10 desktop