

BIOS (Basic Input/Output System):

- **What it is:** BIOS is the traditional firmware used in older computers to initialize hardware and boot the operating system.
 - **How it works:** It performs a Power-On Self-Test (POST) to check hardware, loads the bootloader from the Master Boot Record (MBR), and starts the operating system.
 - **Interface:** Typically text-based and navigable using a keyboard.
 - **Compatibility:** Works with MBR (Master Boot Record) partitioning, which supports disks up to 2 TB and up to 4 primary partitions.
 - **Performance:** Slower boot times and fewer advanced features.
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UEFI (Unified Extensible Firmware Interface):

- **What it is:** UEFI is the modern replacement for BIOS, designed to support more advanced hardware and software capabilities.
- **How it works:** It performs hardware initialization and loads the operating system, but it uses a more modern method, often interacting with GPT (GUID Partition Table) disks.
- **Interface:** More user-friendly, often graphical, and can be navigated using a mouse or keyboard.
- **Compatibility:** Supports GPT partitioning, which allows disks larger than 2 TB and up to 128 primary partitions.
- **Performance:** Faster boot times and support for features like Secure Boot to prevent unauthorized OS booting.