

Storage Hardware

Objectives:

At the end of this episode, I will be able to:

1. Describe the storage hardware supported by macOS.
2. List the hardware detected by macOS.
3. Locate the mount points automatically created by macOS.

Additional resources used during the episode can be obtained using the download link on the overview episode.

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- Internal media is always present
 - HDD
 - SSD
 - Will typically use Apple proprietary file systems
 - Removable media is transient
 - CD
 - DVD
 - USB
 - Thunderbolt
 - Fire Wire
 - Will typically use non-proprietary file systems for compatibility
 - System Information
 - Macintosh HD -> Applications -> Utilities -> System Information
 - Under Hardware you will find:
 - SAS
 - SATA/SATA Express
 - Storage (Shows logical volumes/partitions)
 - Thunderbolt
 - USB
 - Disk Utility
 - Macintosh HD -> Applications -> Utilities -> Disk Utility
 - *Hard Disks*
 - Physical disks
 - *Partitions*
 - Logical boundaries created on the physical disk
 - A disk must contain at least 1 partition to be used by the system
 - macOS supports up to 16 partitions per disk
 - *Volumes*
 - A partition that has been formatted for use by the system
 - A partition is not visible to the user until it is formatted into a volume
 - macOS mounts volumes to `/Volumes` by default
 - GUID
 - Globally Unique Identifiers
 - GUID Partition Table (GPT)

- Default partition scheme for modern Macs
- Supported by Windows and Linux also

- APM

- Apple Partition Map
- Legacy partition map scheme
- Used on PPC-based Macs

- MBR

- Master Boot Record
- Legacy partition map scheme
- Most widely supported

- NOTE: System disks under macOS Mojave need to be GPT