Digital Media Storage Comparison

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SSD

Description- Flash memory with no moving parts

Features- Faster read/write speeds, more reliable than HDDs, but typically more expensive per gigabyte.

Usage- Laptops, desktop computers, and high-performance applications.

HDD

Description- Magnetic storage with spinning disks

Features- High capacity at a lower cost, but slower and more prone to mechanical failure compared to newer technologies

Usage- Desktop computers, servers, and data backup solutions

Flash Drives

Description- Portable storage that uses NAND flash memory

Features- Compact, easy to use, and available in various capacities

Usage- Data transfer, backups, and temporary file storage

Optical Disks

Description- Physical discs that store data using laser technology

Features- Suitable for long-term data storage but have lower capacities and slower speeds compared to newer methods

Usage- Media storage, software distribution, and backups

Cloud Storage

Description- Remote storage accessed via the internet

Features- Accessible from anywhere, scalable, and often integrated with backup services

Usage- Data backups, collaborative work, and accessing data on multiple devices

External Hard Drives

Description- Portable HDDs or SSDs that connect via USB or other ports

Features- Convenient for backing up large amounts of data and transferring files between computers

Usage- Personal data backup, media libraries, and additional storage
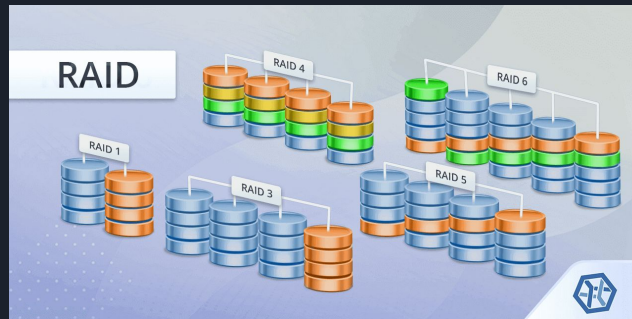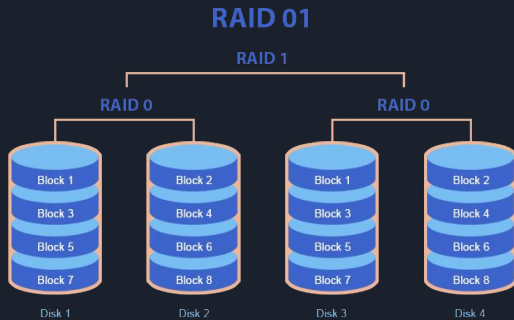
RAID System

Description- A set of HDDs or SSDs configured for redundancy or performance

Features- Can offer increased speed, data protection, or both

Usage- Servers, enterprise data solutions, and high-availability systems

Reflection and Methodology

Methodology- I took a Computer Technology class in high school and I have gone through most of the popular used storage devices and I applied it to the slides. I also use the information I have and also the use of the internet to provide the details of each storage device.

Reflection- The challenge I faced is trying to find the right information for the storage devices. Also finding information about the devices could hard due to the websites giving different definitions.