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	and Countermeasures Exam 312-50 Certified Ethical Hacker g Essential Concepts - I
	A
	LO#02: Explain Different Types of
	File Systems
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Und	lerstanding File Systems
1	The file system is a set of data types that is employed for storage, hierarchical categorization, management, navigation, access, and recovering data
2	It provides a mechanism for users to store data logically in a hierarchy of files and directories
3	It also includes a format for specifying the path to a file through the structure of directories
W	
-	File systems are organized in the form of tree-structured directories, which require access authorization
5	Major file systems include FAT, NTFS, HFS, HFS+, APFS, Ext2, Ext3, Ext4, among others
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Types of File Systems



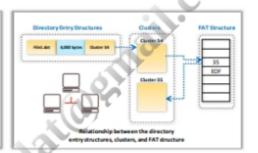
Shared Disk File Systems		In this file system, a number of systems (servers) can access same external disk subsystem			
Disk File Systems		This file system is designed for storing and recovering the file on a storage device, usually a hard disk			
Network File Systems	I	This file system is created to access the files on other computers that are connected by a network			
Database File Systems		File management, wherein, instead of or in addition to hierarchically structured management, files are identified by their characteristics, such as the type of file, topic, author, or similar metadat			
Flash File Systems		This file system is designed for storing and recovering files on flash memory devices			
Tape File Systems		This file system is designed for storing and recovering the file on the tape in a self-describing form			
Special Purpose File Systems		In this file system, files are arranged dynamically by software, intended for such purposes as communication between computer processes or temporary file space			

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Windows File Systems: File Allocation Table (FAT)



- The FAT file system is used with DOS; it was the first file system used with the Windows OS
- It is named for its method of organization, the file allocation table, which is placed at the beginning of the volume
- FAT contains three different versions (FAT12, FAT16, and FAT32) that differ owing to the size of the entries in the FAT structure



System	Bytes Per Cluster within File Allocation Table	Cluster Limit
FAT12	1.5	Fewer than 4087 clusters
FAT16	2	Between 4,087 and 65,526 clusters, inclusive
FAT32		Between 65,526 and 268,435,456 clusters, inclusive

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