

Files and File Systems

1. What is the primary purpose of a file system?
 - A) To store hardware information
 - B) To organize and manage files on a disk
 - C) To improve CPU performance
 - D) To detect malware
2. How does a file system store data on a magnetic or solid-state drive?
 - A) Using hexadecimal codes
 - B) By organizing binary values (0 and 1)
 - C) By storing text directly
 - D) Through manual entry by users
3. What is a directory in a file system?
 - A) A text document
 - B) A folder used to organize files
 - C) A list of programs
 - D) A type of disk
4. What is the term used to describe folders within folders?
 - A) Nested folders
 - B) Parallel directories
 - C) Hidden files
 - D) Branch files
5. What is metadata in a file system?
 - A) Data about other data
 - B) A backup file
 - C) An executable file
 - D) Compressed data

File Names and Extensions

6. What is the purpose of a file extension?
 - A) To protect files
 - B) To determine file size
 - C) To indicate the type of file and associated application
 - D) To encrypt files
7. Which of the following is a valid file extension for Python programs?
 - A) .py
 - B) .exe
 - C) .txt
 - D) .java
8. Which of these characters is NOT allowed in file names?
 - A) _ (underscore)
 - B) : (colon)
 - C) - (dash)
 - D) . (period)
9. Which operating system uses the .apk extension for its applications?
 - A) Windows

- B) Linux
- C) Android
- D) macOS

10. Which file extension is commonly used for executable files in Windows?

- A) .app
- B) .exe
- C) .bat
- D) .sh

Key Features of File Systems

11. What is the purpose of permissions in a file system?

- A) To compress files
- B) To control file access and actions
- C) To create backup copies
- D) To improve performance

12. What does compression do to a file?

- A) Encrypts it
- B) Reduces its size to save space
- C) Deletes duplicate files
- D) Protects it with a password

13. What is the purpose of encryption in a file system?

- A) To reduce file size
- B) To organize files into folders
- C) To secure files with a decryption key
- D) To track file location

14. What is journaling in a file system?

- A) Creating a daily log of user activity
- B) Maintaining a log of planned changes to the disk
- C) Organizing files into hierarchical structures
- D) Compressing files for better performance

15. Which of the following is NOT a feature of file systems?

- A) Encryption
- B) Journaling
- C) Compression
- D) Virtualization

File System Types

16. Which file system is the default for Windows?

- A) NTFS
- B) FAT32
- C) Ext4
- D) APFS

17. What is a limitation of the FAT32 file system?

- A) Does not support Linux systems
- B) Limited file size to 4 GB
- C) Requires encryption
- D) Only works with SSDs

18. Which file system is commonly used on Linux?

- A) NTFS

- B) FAT32
- C) Ext4
- D) APFS

19. Which of these file systems supports journaling?
- A) NTFS
 - B) FAT32
 - C) None of the above
 - D) Only Linux file systems
20. What is the primary focus of Apple's APFS file system?
- A) Compression
 - B) SSD optimization and encryption
 - C) Journaling
 - D) Compatibility with Windows

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Advanced Topics

21. Which feature is common to NTFS and Ext4 file systems?
- A) Encryption
 - B) Limited file size to 4GB
 - C) Compression
 - D) Journaling
22. What is the maximum file size supported by the Ext4 file system?
- A) 4GB
 - B) 16TB
 - C) 1TB
 - D) 100TB
23. What feature of APFS improves crash protection?
- A) Compression
 - B) Journaling
 - C) Advanced crash technology
 - D) Metadata logging
24. Which Apple file system was introduced in 2017?
- A) HFS
 - B) HFS+
 - C) APFS
 - D) NTFS
25. What does the FAT in FAT32 stand for?
- A) File Allocation Table
 - B) File Access Technology
 - C) Fixed Allocation Table
 - D) File Archive Tool

Real-World Applications

26. Which file system is best suited for a Windows machine handling encrypted files?
- A) FAT32
 - B) NTFS
 - C) Ext4
 - D) APFS

27. Which file system should be used for compatibility across most devices?
- A) NTFS
 - B) FAT32
 - C) Ext4
 - D) HFS+
28. What happens to a file when it is compressed?
- A) It becomes encrypted automatically
 - B) Duplicate data is replaced with smaller placeholders
 - C) It is converted into an executable file
 - D) It is saved as a backup file
29. Why might someone choose Ext4 over NTFS?
- A) Ext4 supports larger file sizes
 - B) Ext4 is more compatible with macOS
 - C) Ext4 offers better journaling capabilities
 - D) Ext4 is the default for Linux systems
30. Which file system is not typically associated with encryption?
- A) NTFS
 - B) Ext4
 - C) FAT32
 - D) APFS