Analysis of the NTFS file system for Windows 11 in a security context

Released in 1993 for Windows NT 3.1, NTFS (New Technology File System) replaced FAT as the default file system on Windows (Placeholder1). As a modern file system, NTFS placed a large importance on security.

Some examples of NTFS security features are:

* Access control lists (ACLs)
* Encrypting File System (EFS)

Access control lists (introduced in Windows NT 3.51 (Russinovich, 2006)) are a way of restricting access to system objects on a network or computer. Both users and groups (referred to as security principals) can be defined and are represented by a unique SID (Security identifier). An administrator can then add security principals and assign read, write, modify, or full control permissions for specific objects such as files, folders, printers, and registry keys. Sub-folders of a folder with an access control list will inherit permissions (Microsoft, 2022)

# Bibliography

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