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Open Source Digital Investigation Framework

DFF (Digital Forensics Framework) is a free and Open Source platform dedicated to digital forensic and eDiscovery sciences

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What is DFF ?

The **Digital Forensics Framework** (DFF) is both a digital investigation tool and a development platform. The framework is used by system administrators, law enforcement examiners, digital forensics researchers and students, and security professionals world-wide. Written in **Python** and C++, it exclusively uses Open Source technologies.

DFF combines an intuitive user interface with a modular and cross-platform architecture.

What does it do ?

DFF consists of tools, libraries, modules, and user interfaces. The basic function of the framework is to aggregate information and methodologically analyze volumes, file systems, user and applications data, while extracting metadata, deleted and hidden items. Information are processed into virtual read-only containers, thus preserving the integrity and authenticity of data.

Key features

User Interface : File browser, bookmarks, dockable windows, Integrated Development Environment and interpreter (Python), command line, multilanguage, task manager.

Viewers : Images, videos, text, web, file systems statistics

Timeline analysis : Graphical view, virtual extraction and reduction, metadata filters

Hexadecimal viewer : Large files support, page navigation, pixel navigation and view, search ...

Volumes : Partitions, VMDK (Vmware)

Manipulation de fichiers : Cut, merge, extraction, spares reduction

Metadata : EXIF, datetime, data structures, etc.

Volatile memory : Windows XP ([volatility](#))

File systems : FAT 12/16/32, NTFS, EXTFS 2/3/4

Data recovery : File systems algorithms, file carving

Windows registry: Reconstruction and analysis

Other: Local devices, hash (md5, sha*), zip, unxor ...

Professional services & support

ArxSys is the publisher of DFF and provides software services and support around DFF and Open Source Digital Forensics technologies



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Technologies



Live distributions embedding DFF

