

ABSTRACT

RESEARCH PAPER

MAGIC RESCUE

Magic rescue is an open source utility for recovering data after logical corruption, accidental deletion or even repairing damaged files. It is a command line tool. The user doesn't need to know about data recovery techniques. Although this is a text only tool, the command line is simplistic to use. Menus are logically presented and the language easy to understand. Navigation is easy using the up, down, left and right cursor. Magic Rescue works by reading a file's magic bytes or magic pattern- that is, the unique signature that designates each file type. This signature is often, but not always, within the very first bites of a file. It is mostly used by the file command, often behind the scenes. Magic Rescue uses its collection of recipes to recognize the magic bytes in all deleted files of a particular type then saves deleted files to an output directory where they can be sorted.

To prevent feedback loops that can trash the system and possibly overwrite the files you are trying to recover, the directory should not be on the block device you are searching. If your system only has one partition, consider mounting a flash drive or external hard drive to hold the directory. If you have multiple partitions, you need to make sure that the directory is on a partition that has as much free space as you need for the recovered files.

NEW PROBLEM CONCEPT

In this magic rescue we can recover the deleted files. My new problem concept is how we can "securely erase" a file.