?attempt to access beyond end of device? Linux Error

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Alike other operating systems? kernel, Linux Kernel is the resource of various services to the system. While the Linux Kernel errors occur, it generally indicates problems with file system or some memory that it can?t get access to. In some cases, the solution may require Linux Data Recovery for the cause- data loss. Users may get an error in sys log, similar to:?attempt to access beyond end of device?The error is generally encountered while attempting to access a Linux partition, trying to mount it or while starting the system. The error specifications also include rw, limit and want parameters that define some sector numbers. BackgroundThe reason why the error message occurs is that system tries to access such sectors that are not there on disk. If Linux file system is corrupt then the including metadata information like control block or directory communicates incorrect location of inode, which actually doesn?t exist. But when the device driver looks for it on disk, it fais and an error, like above, is encountered.SolutionDamaged file system needs repair. So fsck can be used to correct this corruption. But if the extent of damage is high enough then fsck may not help. In this case, it is required to recreate the file system by disk formatting and recover the data from backup. If data backup exists in required state i.e. complete and intact, it will provide data restoration. However if it fails or doesn?t exist, Linux Recovery applications can be used to extract lost information from affected drive. Linux Data Recovery software are graphically rich tools that use scanning procedures to analyze and recover data from failed hard drives. These recovery solutions are valid to be used in each logical data loss case, except from data overwriting. The applications are safe as of read-only design. Also, they offer suitable options that permit recovering and restoring recovered information to the desired location. The applications are installed on other than affected drive in order to prevent overwriting. Stellar Phoenix Data Recovery Linux is the best and safest Linux Recovery application to be used with ext2, ext3 and reiserFS file systems. The software is known for using the most potent scanning algorithms and for offering interactive interface. We can use this application with most of Linux distributions including Suse, RedHat, TurboLinux, SlackWare, Gentoo, Fedora Core, Debian, Ubuntu and others.

Linux

Links:
[1] http://www.tuxmachines.org/taxonomy/term/123