

GNU/Linux Administration - Support #873

Recover Accidentally Deleted Files on a FAT16/32 Partition on Arch Linux

11/19/2016 08:26 PM - Daniel Curtis

Status:	Closed	Start date:	11/20/2016
Priority:	Normal	Due date:	
Assignee:	Daniel Curtis	% Done:	100%
Category:	Workstation	Estimated time:	0.50 hour
Target version:	Arch Linux	Spent time:	1.00 hour

Description

I recently deleted a file on one of my thumb drives by accident, and I really needed that file back. Luckily there is an application for this very task, called testdisk. This is how I recovered my file using testdisk.

NOTE: Once a file has been deleted, it is only marked deleted by the filesystem and the space is marked free to be written to. If new data is written to the disk before the file is recovered, the file being recovered may be overwritten by the new data.

Recover Data

- Install testdisk:

```
sudo pacman -S testdisk
```

- Make a temporary directory to store a copy of the recovered data:

```
mkdir ~/temp-recovered
```

- Run testdisk:

```
sudo testdisk /dev/sdb
```

NOTE: Replace /dev/sdb with the proper path of the drive to be recovered.

- Once testdisk is open, select the device to perform the recovery on, then select **Proceed**.
- Select **Intel** as the partition type.
- Select **Advanced**.
- Select the Partition to perform the recovery on and the choose **Undelete**.
- Navigate to the location on the device where the files were deleted. Files that are deleted are displayed in red text.
- Use the : key to select the files that were deleted, then press C to open the destination folder prompt.
- Select temp-recovered directory created earlier, then press C again to copy the selected files to a new location.

The files will be recovered into the temporary recovery folder in the same exact directory structure as the recovered drive.

Resources

- https://wiki.archlinux.org/index.php/file_recovery#Testdisk_and_PhotoRec
- http://www.cgsecurity.org/wiki/TestDisk:undelete_file_for_FAT

History

#1 - 11/19/2016 08:26 PM - Daniel Curtis

- Status changed from New to Resolved

- % Done changed from 0 to 100

#2 - 12/03/2016 12:51 PM - Daniel Curtis

- Status changed from Resolved to Closed