

Fix fake flashdisk F3



fix fake or real flashdisk using f3

To check and fix a **fake or faulty flashdisk** using the **F3 (Fight Flash Fraud)** tools on Linux, follow these steps:

✓ What is F3?

F3 (Fight Flash Fraud) is a set of tools to test USB flash drives and SD cards to verify if they actually have the storage they claim. Fake drives may report e.g., 64 GB but actually only have 8 GB of real storage, causing data loss.

🔧 Step-by-Step: Detect and Fix a Fake Flashdisk

◆ 1. Install F3

For most Linux distros:

```
bash

sudo apt update
sudo apt install f3
```

◆ 2. Plug in Your Flash Drive

Then identify the device name:

```
bash

lsblk
```

Example output:

```
bash

sdb      8:16   1  64G  0 disk
└─sdb1   8:17   1  64G  0 part /media/user/usb
```

Here, **/dev/sdb** is the flash drive.

⚠ **Important:** Make sure it's the correct disk to avoid data loss.

◆ 3. Test the Drive with f3write and f3read

3.1. Write Test Data

```
bash

cd /media/user/usb # go to mounted flash disk
f3write .
```

3.2. Read and Verify

After writing is done:

```
bash

f3read .
```

Results:

- If the flash drive is **real**, all files will be read and verified successfully.
- If it's **fake**, some files will show as corrupted or unreadable.

Fixing a Fake Flash Drive

You **cannot make a fake drive real**, but you can:

- **Repartition** the drive to only use the **actual good sectors**.
- Prevent future data loss by using only the safe capacity.

◆ 4. Find the Real Capacity


If F3 reports e.g.:

```
yaml

Data OK: 7.9 GB
Data LOST: 56.1 GB
```

That means your real capacity is ~8 GB.

◆ 5. Repartition to Safe Size (Optional But Recommended)

 This will erase all data on the drive!

5.1. Open fdisk

```
bash

sudo fdisk /dev/sdX # replace with your actual device, e.g., /dev/sdb
```

5.2. Steps inside fdisk:

```
sql

d  # delete existing partition
n  # new partition
p  # primary
1  # partition number
<Enter> # default first sector
+8G # size (use real size from f3)
w  # write changes
```

◆ 6. Format the New Partition

```
bash

sudo mkfs.vfat -n SAFE_USB /dev/sdX1
```

Now you have a safe usable USB stick with real capacity.

Optional: Use f3probe for Faster Check

If the drive is unmounted:

```
bash

sudo f3probe --destructive --time-ops /dev/sdX
```

This will quickly identify the true size and possible bad sectors.

Summary

Step	Command / Tool	Purpose
1	f3write + f3read	Verify real capacity
2	f3probe	Fast destructive test (optional)
3	fdisk or gparted	Repartition to real size
4	mkfs.vfat	Format for safe use

Would you like a shell script to automate all of this?