

? SHA256 Verification

? Objective

Verify that the downloaded Ledger Live ApplImage has not been corrupted or altered before replacing the existing binary.

This adds a simple integrity check to the update workflow.

? Why This Matters

An ApplImage is a standalone executable.

Before moving it into the permanent location, it is good practice to verify:

- the download completed properly
- the file is not corrupted
- the checksum matches the official release value

This is especially useful when manually managing binaries.

? Step 1 — Generate the local SHA256 hash

Run:

```
sha256sum ~/Downloads/ledger-live-desktop-2*.ApplImage
```

Example output:

```
abcd1234... /home/coolbaron/Downloads/ledger-live-desktop-2.145.0-linux-x86_64.ApplImage
```

? Step 2 — Compare with the official hash

Check the SHA256 value published by Ledger for that exact version and verify that:

- the version matches
- the filename matches
- the hash matches exactly

If the hashes differ, do **not** use the file.

?? Important

A valid file size alone is not enough.

Example:

- correct size → suggests a complete download
- matching SHA256 → confirms integrity

Both checks are useful, but SHA256 is the stronger verification.

? Recommended Verification Flow

1. Check file size

```
ls -lh ~/Downloads | grep ledger
```

2. Check SHA256

```
sha256sum ~/Downloads/ledger-live-desktop-2*.Applmage
```

3. Compare with official release hash

4. Move only after verification

```
mv ~/Downloads/ledger-live-desktop-2*.ApplImage ~/AppImages/ledger-live.ApplImage  
chmod +x ~/AppImages/ledger-live.ApplImage
```

? If the Hash Does Not Match

Do not move the file into `~/AppImages`.

Instead:

```
rm ~/Downloads/ledger-live-desktop-2*.ApplImage
```

Then download it again and repeat the check.

? Practical Note

For routine use, checking file size may be enough to catch obvious failures such as the earlier **75-byte corrupted ApplImage**.

For stronger assurance, especially with wallet-related software, SHA256 verification is the better habit.

? Guiding Principle

“ Verify first. Replace second.

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