

# Chain of custody & Preservation of evidence: biggest misconception in IT forensics?



Prof. Dr. Tobias Eggendorfer  
Hochschule  
Ravensburg-Weingarten

Technik | Wirtschaft | Sozialwesen

# IT forensics - current „teaching“

- Copy the hard disk
- Work on the copy

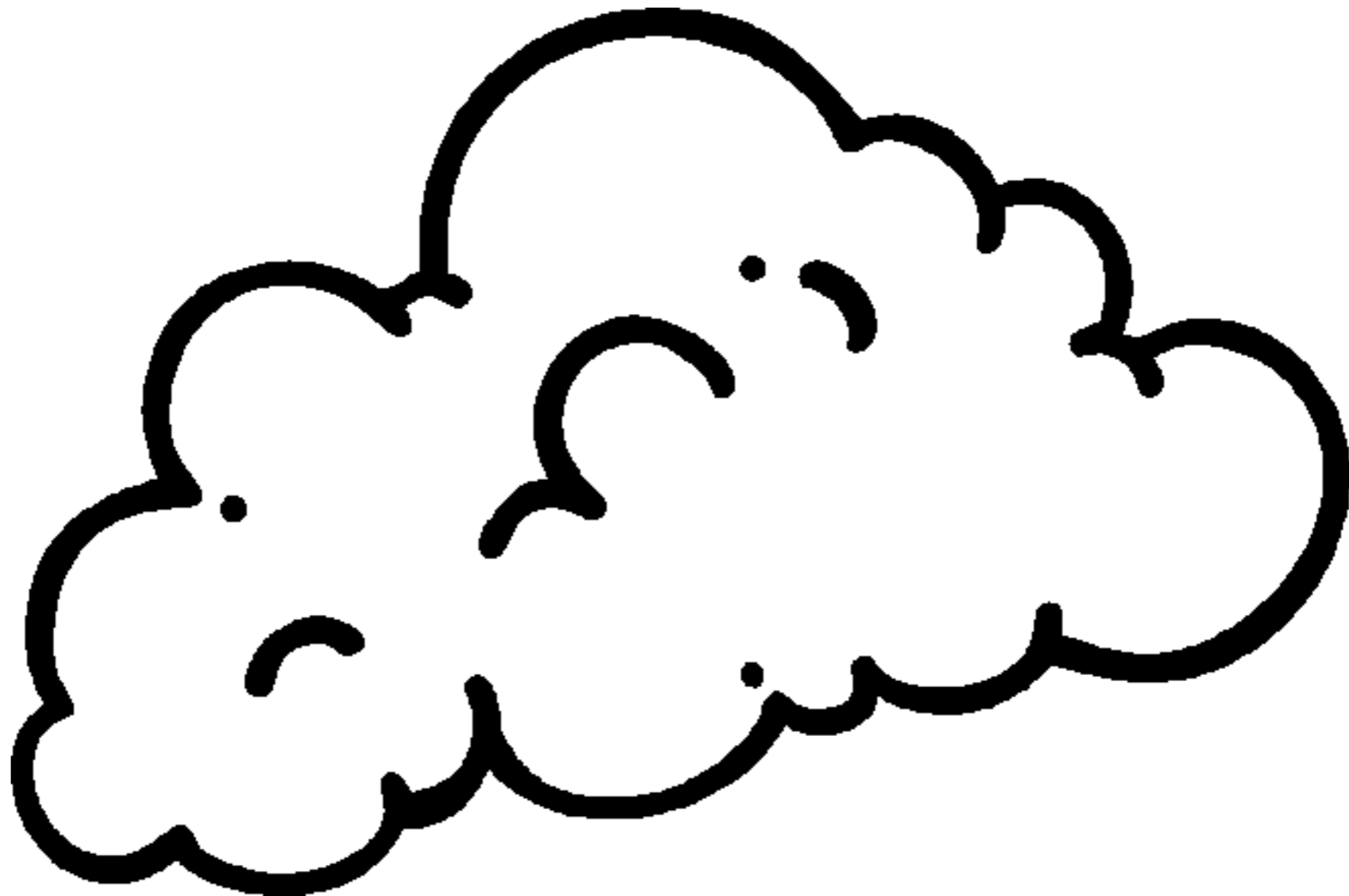
# Nothing wrong, when examining this:



# Except for the amount of data.

- That's why
  - Jonathan Grier tried to reduce the amount
  - Bradley Schatz optimised formats to increase transfer speeds

# But impossible for



# However: It is attempted.

Reasons:

Evidence needs to be available.

It needs to be copied so it cannot be tampered with.

But how do other  
forensics sciences solve  
this?

# Can't keep it forever.





# What if only wounded?

- Stitch it up?
- Or keep it - just in case?

# Add some explosives to keep it going?



# How do they do it?

- Write a report, have someone sign it
- Maybe
  - add photos or sketches
  - keep some pieces

# And why?

- Their evidence can't be copied
- It won't last forever

We don't always  
investigate the „really  
nasty“ stuff.

# Why aren't we doing this?

- We copy extensive amounts of data.
- We compromise privacy by doing so.
- We waste millions of GByte.
- We waste time.

Who said we have to  
do it this way?

# My suggestion:

- Prefer live forensics over post-mortem
- Get rid of copying
- Reduce data (Triage)
  - Keep only what's necessary
- Run the risk of case blowing up in court if it's not „a big thing“



# Thank you

[tobias.eggendorfer@hs-weingarten.de](mailto:tobias.eggendorfer@hs-weingarten.de)