



# Cyber Forensics & Incident Response (01CY0301)

Lecture - 2

# Cyber forensics

**Cyber Forensics** is the scientific processes of identification, seizure, acquisition, authentication, analysis, documentation and preservation of digital evidence.

**Computer forensics** (also known as **computer forensic science**) is a branch of digital forensic science pertaining to evidence found in computers and digital storage media. The goal of computer forensics is to examine digital media in a forensically sound manner with the aim of identifying, preserving, recovering, analyzing and presenting facts and opinions about the digital information.

Although it is most often associated with the investigation of a wide variety of computer crime, computer forensics may also be used in civil proceedings. The discipline involves similar techniques and principles to data recovery , but with additional guidelines and practices designed to create a legal audit trail.

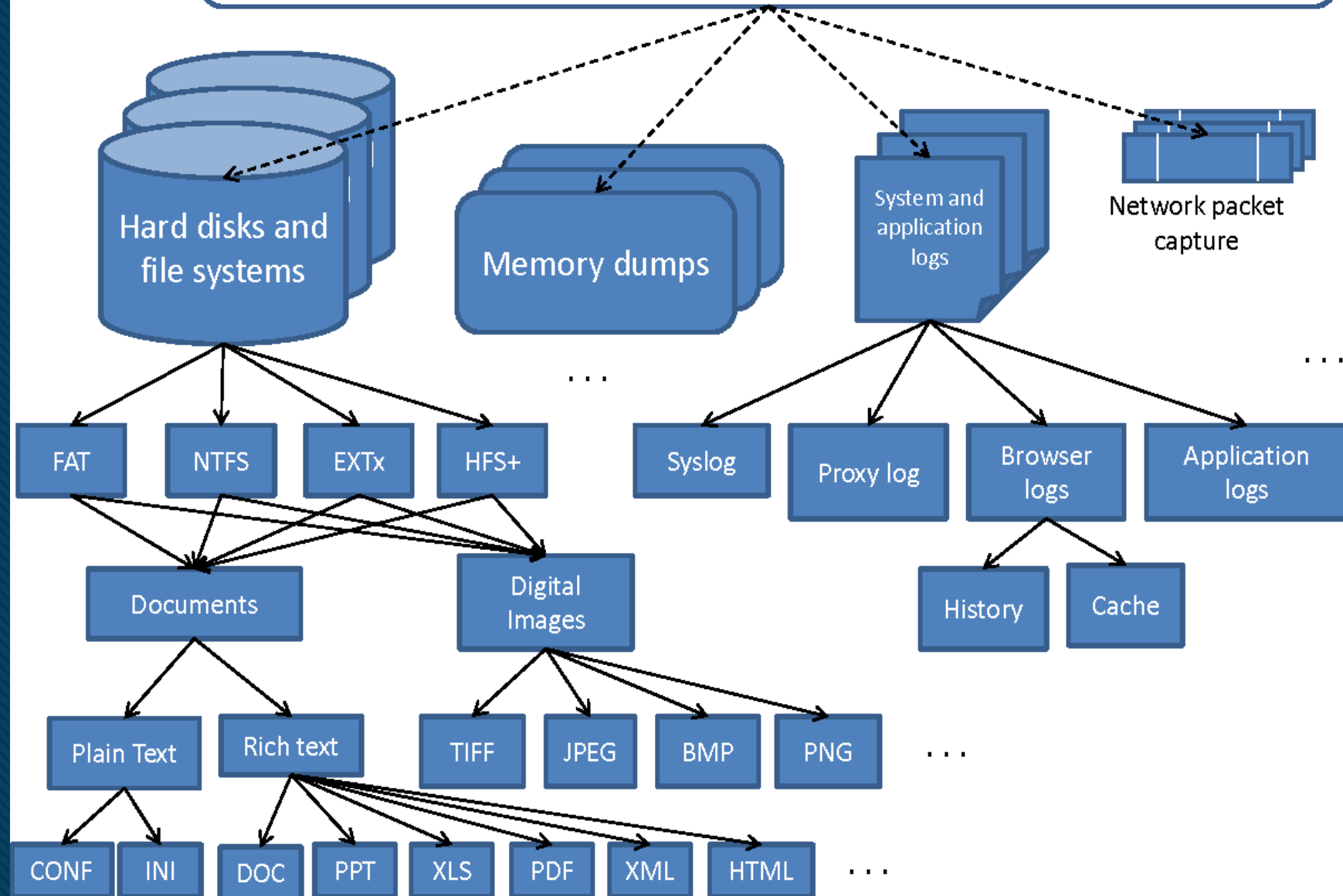
# Digital Evidence

**Digital evidence** is defined as information and data of value to an investigation that is stored on, received or transmitted by an electronic device<sup>1</sup>. This **evidence** can be acquired when electronic devices are seized and secured for examination. **Digital evidence:** Is latent (hidden), like fingerprints or DNA **evidence**.

## DIGITAL EVIDENCE



# Digital Evidence



# The rules of evidence.

## ❖ Admissible

- Evidence Must be able to used in Court

## ❖ Authentic

- Tie the evidence positively to an incorrect

## ❖ Complete

- Evidence that can cover all perspectives

## ❖ Reliable

- There should be no doubt that proper procedures were used

## ❖ Believable

- Understandable and believable to a jury

# Unauthorized activities

- **Unauthorized activity** means an act or practice in this state by a person without a charter, license, permit, registration, or other authority issued or granted by the banking commissioner or other appropriate regulatory authority for which such a charter, license, permit, registration, or other authority is required.

## List

Physical vs Logical

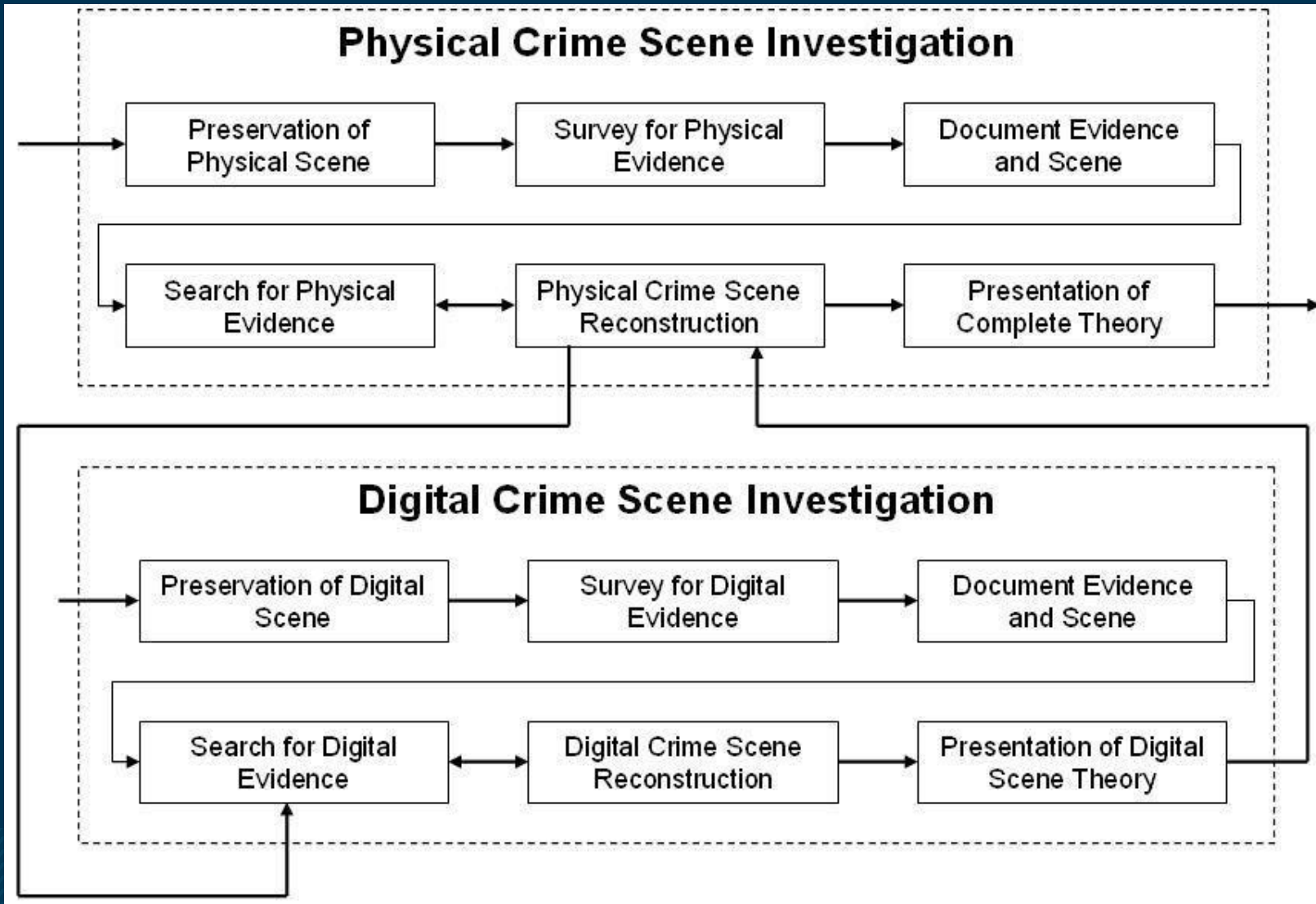
- Stealing data Remotely
- Stealing Laptop.

# Chain of Custody

**Chain of custody (CoC)**, in legal contexts, is the chronological documentation or paper trail that records the sequence of **custody**, control, transfer, analysis, and disposition of physical or electronic evidence.

[illegible]

# Chain of Custody Step





The background features a diagonal split. The upper-left portion is light blue with thin, darker blue horizontal stripes. The lower-right portion is a solid dark blue. The text is centered in the dark blue area.

Any Question ?



**Thank You**