

DEAD & LIVE FORENSIC

Data acquisition in Digital forensics includes the procedures involved in gathering digital evidence such as cloning & copying evidence from any electronic device.

Live acquisition

It involves in capturing data from a system that is running.

It allows investigators to capture volatile info.

Note: Live Acquisition must only be performed if necessary because it can modify the system.

- * A live system refers to system that are up & running where info may be altered as data is continuously processed.
- * lot of evidentiary value that could be found in a live system.
- * Switch it off may cause loss of volatile data. In contrast, leaving a computer running may cause evidence to be altered or deleted.

In live acquisition technique is real world live digital forensic investigation process. Eg: A common approach to live digital forensic involves an a tool into read only mode in system attaching writeable media to system & using tool to start live imaging in that tool.

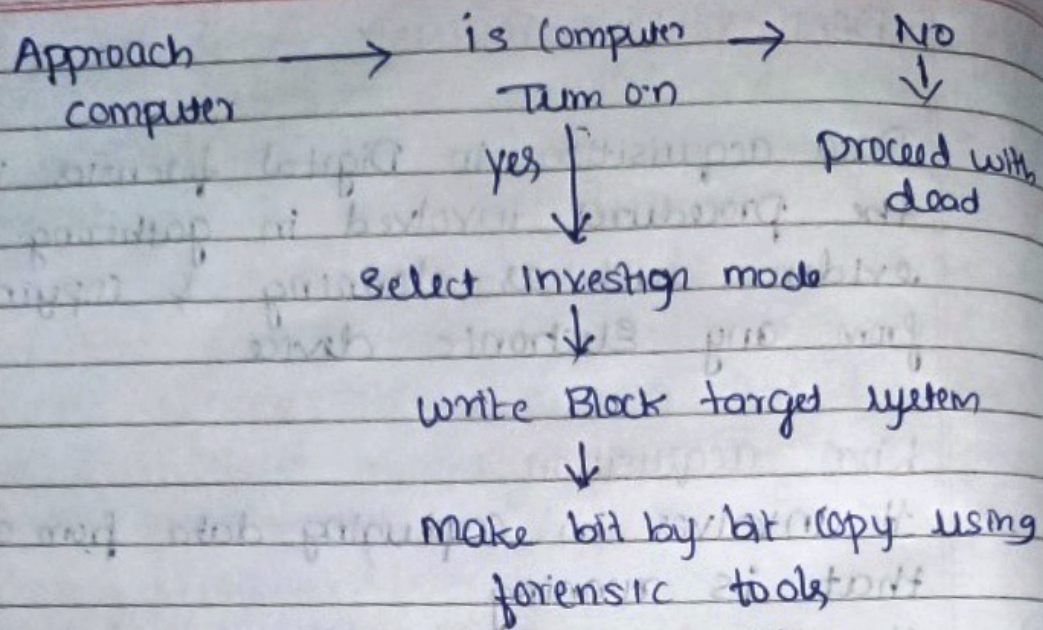


Fig: Live forensic Image acquisition

- Adv: *
- * Volatile data capturing
 - * Take more time (coz speed of creating copy depend on speed of system on processing is being carried out)
 - * In capturing RAM or memory

Dead acquisition

It involves in making a forensic image from computer media such as Hard drive, CDROM, removable hard drives

- * It produce some information, they can't recover everything
- * By power off the system & removing the disk in order to connect it to a forensic workstation/hardware or software write blocker to create image → refer as dead imaging

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A write blocker will prevent any data from being tampered & allowing read access only. → preserve integrity of file metadata

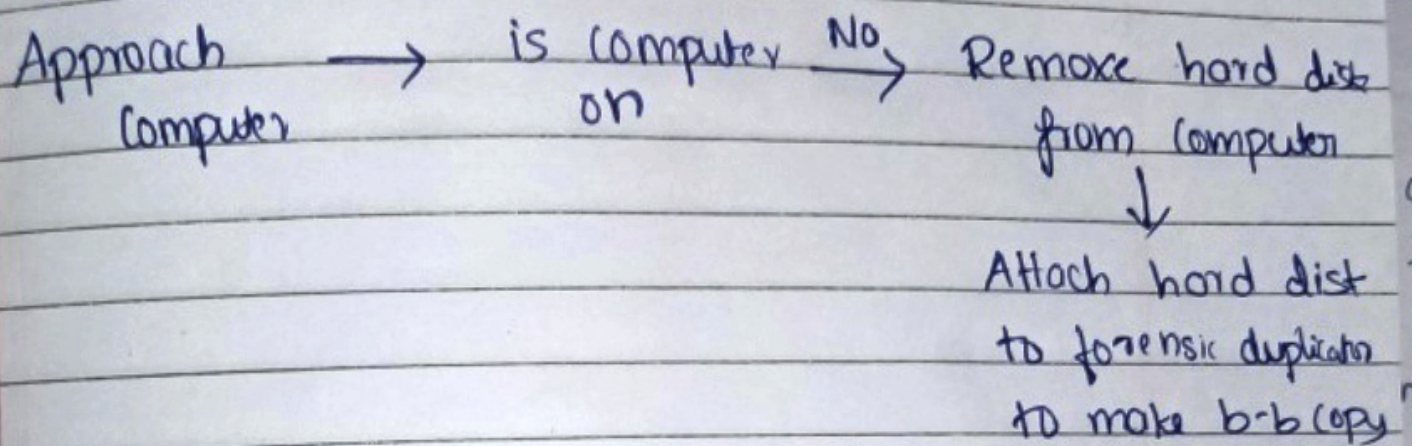


fig: Dead forensic Image Acquisition

Adv: * need less time

Disadv: * It won't capture volatile data
* no provision in capturing RAM