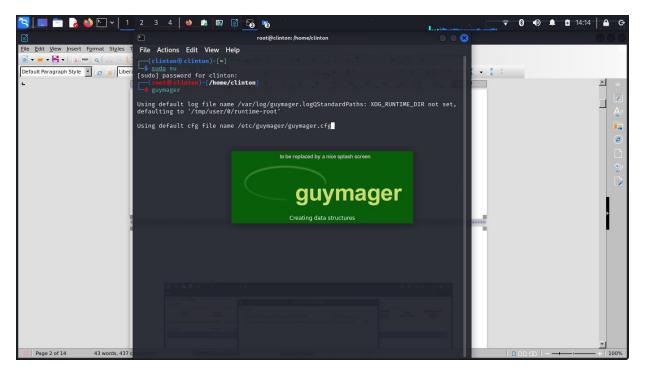
1 } GUYMAGER

Guymager is a forensic disk imaging tool used primarily for creating a bit-for-bit copy of storage devices such as hard drives, USB drives, and other digital storage media. It's popular in the field of digital forensics for its simplicity and reliability when handling data preservation tasks.

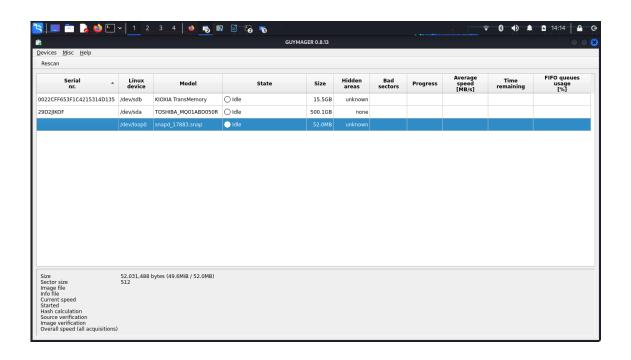
In the following project I will provide step by step on how to use the tool for forensics investigations.

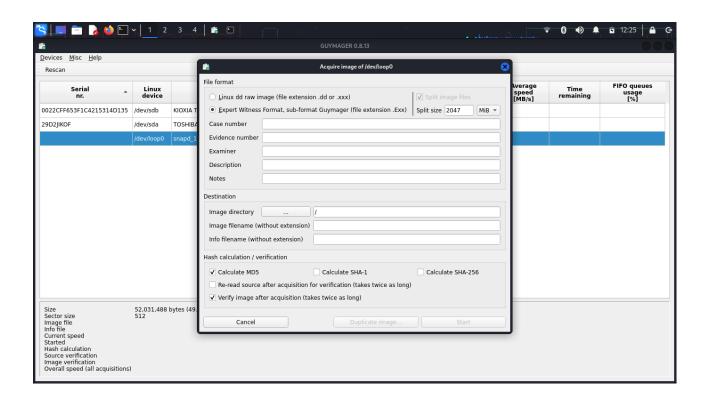
- i) Steps for Using Guymager:
- : Ensure that the software is installed on a forensic workstation running a supported operating system (usually Linux). Start by typing guymager on the terminal.



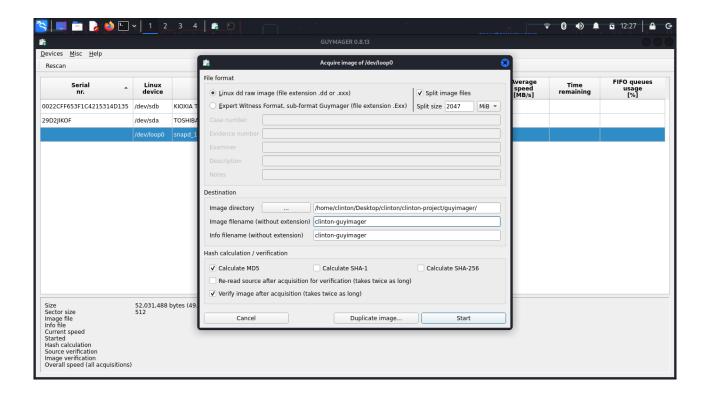
Select the Source Disk: After launching Guymager, you would select the physical disk or partition that you wish to create an image of.

Choose the Output Format: Decide on the format for the image (e.g., E01, raw, etc.).

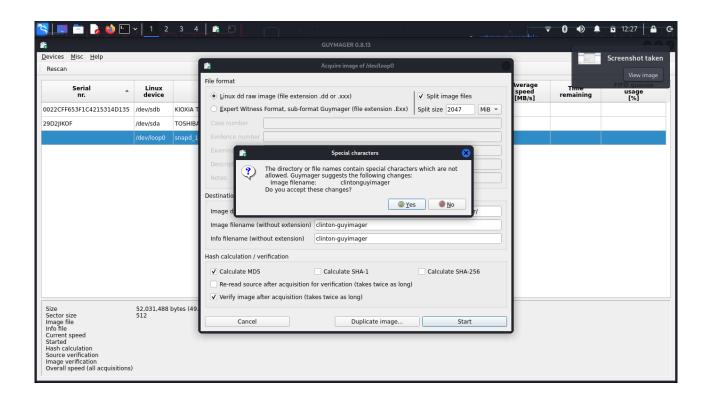


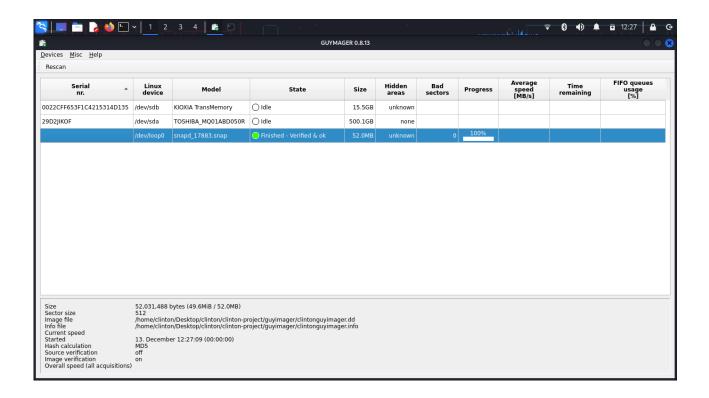


choose the destination of the image and begin Imaging: Start the imaging process. Guymager will create a bit-for-bit copy of the selected disk.

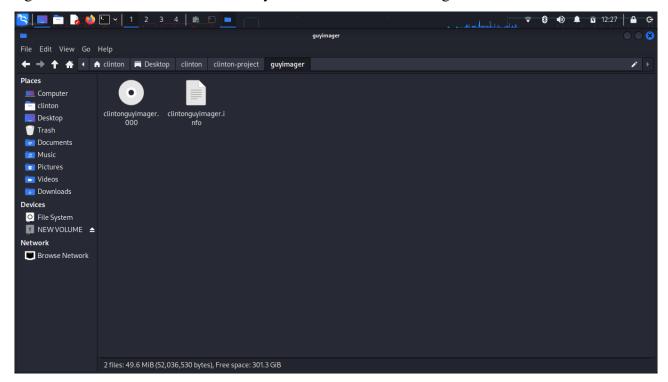


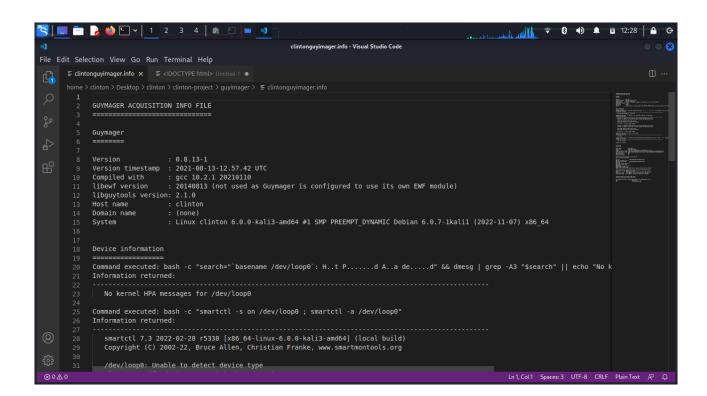
Verify the Image: After the image is created, use the built-in verification tool to check for data integrity.



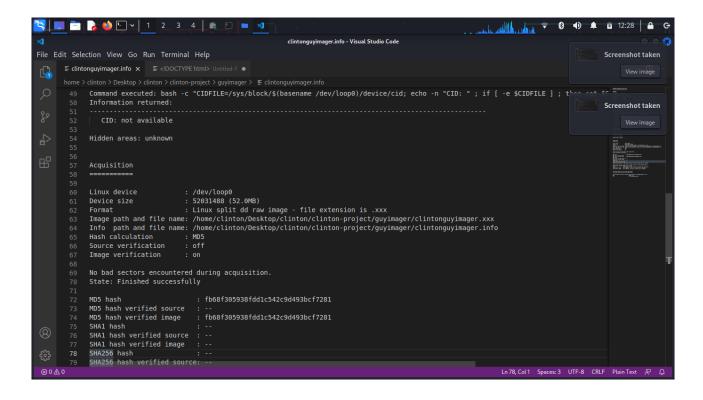


Navigate to the destination of the file that you chose and view the image.





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                                                                         clintonguyimager.info - Visual Studio Code
                                                                                                                                                                      Screenshot taken
      ≡ clintonguyimager.info X ≡ <!DOCTYPE html> Untitled-1 •
                 Copyright (C) 2002-22, Bruce Allen, Christian Franke, www.smartmontools.org
                  /dev/loop0: Unable to detect device type Please specify device type with the -d option.
                 Use smartctl -h to get a usage summary
                 smartctl 7.3 2022-02-28 r5338 [x86_64-linux-6.0.0-kali3-amd64] (local build) Copyright (C) 2002-22, Bruce Allen, Christian Franke, www.smartmontools.org
                  /dev/loop0: Unable to detect device type Please specify device type with the -d option.
                 Use smartctl -h to get a usage summary
               Command executed: bash -c "hdparm -I /dev/loop0"
               Information returned:
                /dev/loop0:
               Command executed: bash -c "CIDFILE=/sys/block/$(basename /dev/loop0)/device/cid; echo -n "CID: " ; if [ -e $CIDFILE ] ; then cat $C
               Information returned:
                 CID: not available
              Hidden areas: unknown
               Acquisition
                                                                                                                                        Ln 58, Col 1 Spaces: 3 UTF-8 CRLF Plain Text 🔊
```



Key Features:

Disk Imaging:

Guymager creates exact disk images (also known as forensic images) that preserve the integrity of the data for analysis. This is crucial in forensic investigations where maintaining the authenticity of the data is essential.

Multiple Formats:

It supports multiple disk image formats, including raw (dd), E01 (EnCase), and AFF (Advanced Forensic Format). These formats are widely accepted in the forensic community.

Verification:

After creating the disk image, Guymager can verify the image against the source drive to ensure that no data was lost or altered during the imaging process. This is crucial for maintaining evidence integrity in legal proceedings.

User-Friendly Interface:

Guymager has a graphical user interface (GUI), which makes it easier for forensic professionals to use compared to command-line tools. It is available for Linux and supports most file systems, including FAT, NTFS, and EXT.

Open Source:

Guymager is free and open-source, making it accessible to both professional and educational users.

Use Case in Forensics:

Data Acquisition:

When a forensic investigator is called to collect evidence from a computer or storage device, Guymager is often used to create a bit-for-bit copy of the storage medium. This allows them to examine the data without altering the original device.

Court Admissibility:

Using tools like Guymager ensures that the data collection process adheres to legal standards, helping ensure the evidence can be presented in court without challenges to its integrity.