

Department of Computer Engineering

Experiment No.8
To use bulk_extractor tool to detect Evidence related to email
Date of Performance:
Date of Submission:



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Aim: To use bulk_extractor tool to detect Evidence related to email

Objective: To make use of the bulk_extractor tool to recover email related evidence from a disk image

Theory:

Bulk_extractor is a C++ program that scans a disk image, a file, or a directory of files and extracts useful information without parsing the file system or file system structures. The results are stored in feature files that can be easily inspected, parsed, or processed with automated tools. bulk_extractor also creates histograms of features that it finds, as features that are more common tend to be more important.

Bulk Email Extractor is also an email client manager. The software provides a streamlined extraction of email. It supports every online email service on the internet. This helps users process all email addresses in an efficient and automated manner.

Bulk Email Extractor is created to handle tons of emails addresses. Collecting email addresses is a monumental job for anyone. Piled-up messages from clients and accounts can be a good source of email addresses. Some of them could be not existing or fake and most users don't have the luxury of checking individual email addresses. It will take several hours until all email addresses are collected and sorted out. This software is capable of extracting large amounts of email addresses. It runs within minutes compared to the manual opening of contact addresses. Any online email services or business directory websites are supported by this software and it even supports websites with email listings.

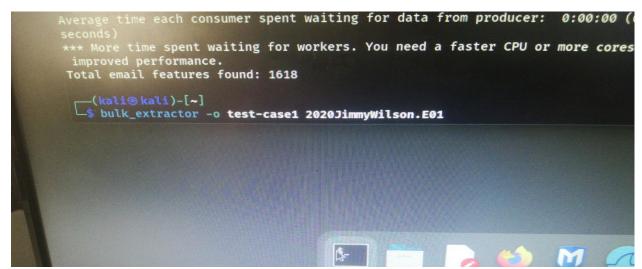


Fig. 8.1 View of Bulk_Extractor

Process:

Step 1, open the Bulk_extractor tool in kali Linux

Step 2. create or download the mirror image of the hard disk

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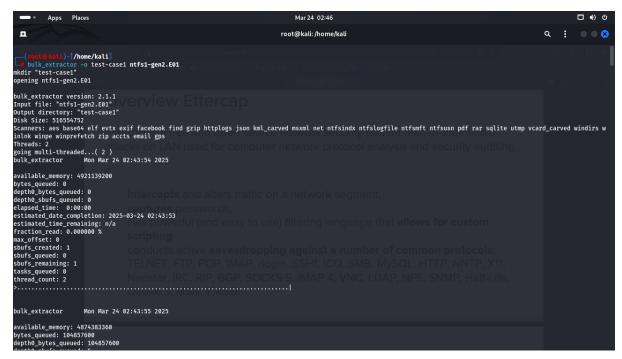


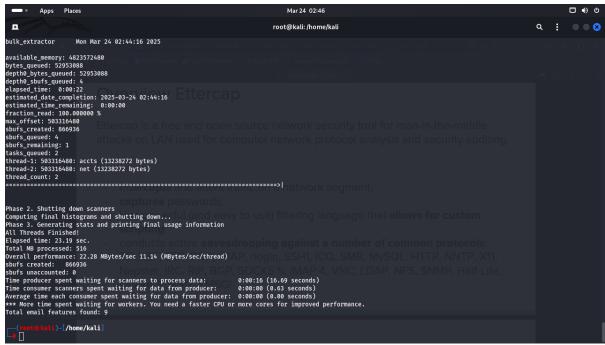
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Step 3. use the command as shown in figure 8.1

Step 4. open the output file to see email evidence

Output:







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Conclusion:

Bulk_extractor is a vital tool in digital forensics that efficiently scans large datasets to extract useful artifacts like email addresses, credit card numbers, and URLs. It helps investigators quickly identify and analyze key pieces of evidence without needing to process entire files manually. In a digital forensics investigation, Bulk_extractor aids in swiftly uncovering critical information that can significantly impact the case.