Digital Forensics Report: Evidence Collection and Preservation

Examiner: Abigail Jung Date: April 23, 2025 Case ID: DF-0423-01

1. Evidence Verification - Disk Image (.E01)

Image File: drive1.E01

Location: C:\Users\abij9\Downloads\drive1.E01

Hash Verification:

MD5: 2ccfa510ee28712b01544594f4ad721

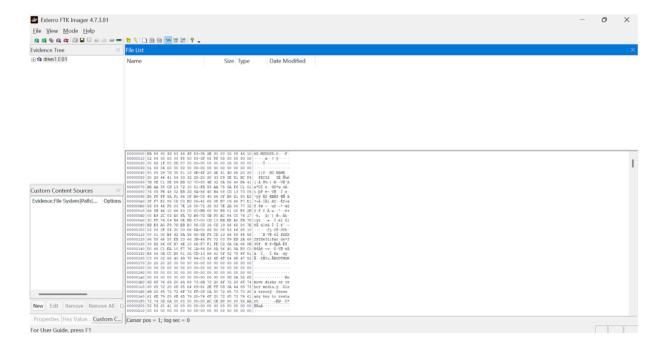
SHA1: 2baa0524e34a684e615061829b21d6b33cd906f8

Tool Used: FTK Imager v4.7.3.81

Verification Method: FTK Imager loaded the .E01 file in read-only mode. Hashes were

confirmed using Windows CertUtil.

Screenshot Reference:



```
C:\Users\abij9\Downloads\Comae-Toolkit-v20230117\x64>certutil -hashfile \Users\abij9\Downloads\drive1.E01 MD5 MD5 hash of \Users\abij9\Downloads\drive1.E01 MD5 MD5 hash of \Users\abij9\Downloads\drive1.E01: 2ccfa510ee28712b01544594f4fad721 CertUtil: -hashfile command completed successfully.

C:\Users\abij9\Downloads\Comae-Toolkit-v20230117\x64>certutil -hashfile \Users\abij9\Downloads\drive1.E01 SHA1 SHA1 hash of \Users\abij9\Downloads\drive1.E01: 2baa0524e34a684e615061829b21d6b33cd906f8 CertUtil: -hashfile command completed successfully.
```

2. Memory Acquisition

Dump File: DESKTOP-VKNOGBH-20250423-202632.dmp

Location: C:\Users\abij9\Downloads\

Hash Verification:

MD5: 56948ede7b2ac9d60aafc09268be62be5

SHA1: f93382ba4b300c0ab423217bf9769e03f7b546c

Tool Used: Dumplt by Comae Toolkit v20230117

Execution: Run as Administrator to capture a full physical memory dump. File was saved in the local directory.

Verification Method: Hashes were verified using certutil commands in Command Prompt.

```
C:\Users\abij9\Downloads\Comae-Toolkit-v20230117\x64>certutil -hashfile DESKTOP-VKNOGBH-20250423-202632.dmp MD5 MD5 hash of DESKTOP-VKNOGBH-20250423-202632.dmp: 56948ede7b2ac9d60aafc09268b62be5 CertUtil: -hashfile command completed successfully.

C:\Users\abij9\Downloads\Comae-Toolkit-v20230117\x64>certutil -hashfile DESKTOP-VKNOGBH-20250423-202632.dmp SHA1 SHA1 hash of DESKTOP-VKNOGBH-20250423-202632.dmp: f93382ba4b300c0ab423217bf95769e03f7b546c CertUtil: -hashfile command completed successfully.
```

3. Write-Blocking Mechanism

Approach: Since disk acquisition was not performed manually (image file was provided), direct write-blocking was not needed. Evidence was handled in FTK Imager in read-only mode to simulate write-blocking. No modifications were made to the source image file.

4. Summary Table

Evidence	Tool	Hash	Hash Value	Notes
Type	Used	Туре		

Disk Image	FTK Imager	MD5	2ccfa510ee28712b01544594f4ad721	Mounted in read-only mode
Disk Image	FTK Imager	SHA1	2baa0524e34a684e615061829b21d6b33cd90 6f8	Verified via CertUtil
Memory Dump	Dumplt	MD5	56948ede7b2ac9d60aafc09268be62be5	Dumped using Dumplt with Admin rights
Memory Dump	Dumplt	SHA1	f93382ba4b300c0ab423217bf9769e03f7b546 c	Verified via CertUtil

5. Tools and System Info

FTK Imager Version: 4.7.3.81Dumplt Version: 20230117 x64

• **System:** Windows 10, Hostname: DESKTOP-VKNOGBH