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Imaging with write-blocker Report

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Background

Digital Investigators Aaron Ho and Connor Schuler (Champlain College) were tasked with taking E01 forensic images of a 120GB Kingston 2.5" SATA SSD. We followed standard acquisition protocols by utilizing a Coolgear write blocker to preserve the original media. FTK Imager was then used to generate and examine the forensic images.

This report contains a detailed description of the same.

Evidence and Processing

- 1 Kingston Technology 2.5" SATA SSD (120GB) was provided by the client on this Tuesday 27th, 2026. Forensic images of the disks were taken and they had the following hash values.
 - MD5: 4bf6599c4f747379c102d62a330f234e
 - SHA-1: 7845eebe1b718511bf9a884ea60d9f9c9def6350

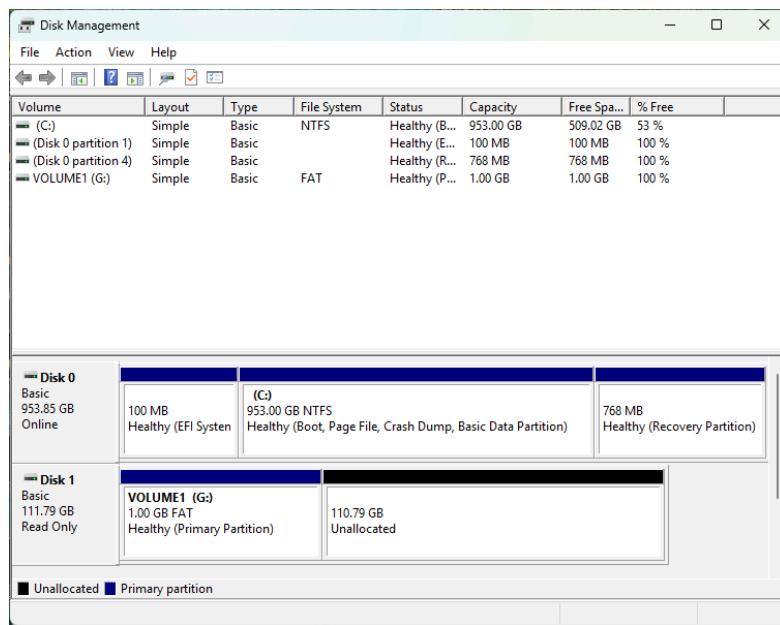


Image #1 - In this screenshot, Investigator Schuler has the SATA SSD disk attached via the write-blocker. Disk management shows the disk is read-only, which means that write-blocking is enabled.

Drive/Image Verify Results	
Computed hash	4bf6599c4f747379c102d62a330f234e
Stored verification hash	4bf6599c4f747379c102d62a330f234e
Report Hash	4bf6599c4f747379c102d62a330f234e
Verify result	Match
SHA1 Hash	
Computed hash	7845eebe1b718511bf9a884ea60d9f9c9def6350
Stored verification hash	7845eebe1b718511bf9a884ea60d9f9c9def6350
Report Hash	7845eebe1b718511bf9a884ea60d9f9c9def6350
Verify result	Match
Bad Blocks List	
Bad block(s) in image	No bad blocks found in image

Close

Image #2 - In this screenshot, Investigator Schuler has the verification result for the E01 image disk with the MD5 and SHA1 hashes as well as the bad blocks list.

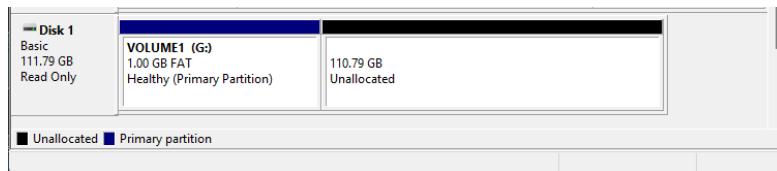


Image #3 - In this screenshot, Investigator Ho has the SATA SSD disk attached via the write-blocker. Disk management shows the disk is read-only, which means that write-blocking is enabled.

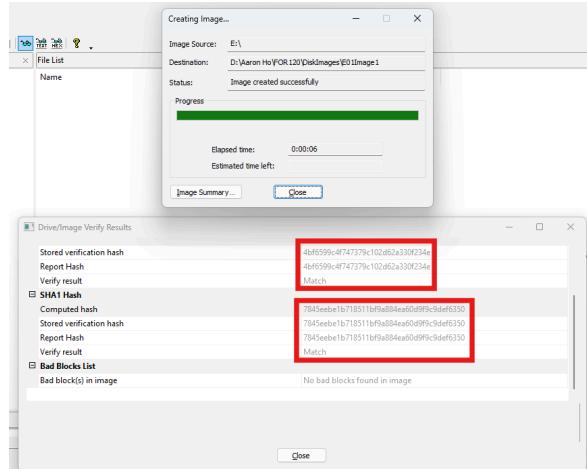


Image #4 - In this screenshot, Investigator Ho has the verification result for the E01 image disk with the MD5 and SHA1 hashes as well as the bad blocks list.

Tools Used

FTK Imager - 4.7.3.81
Coolgear SS-127ASD write-blocker
Windows Disk Management

Findings

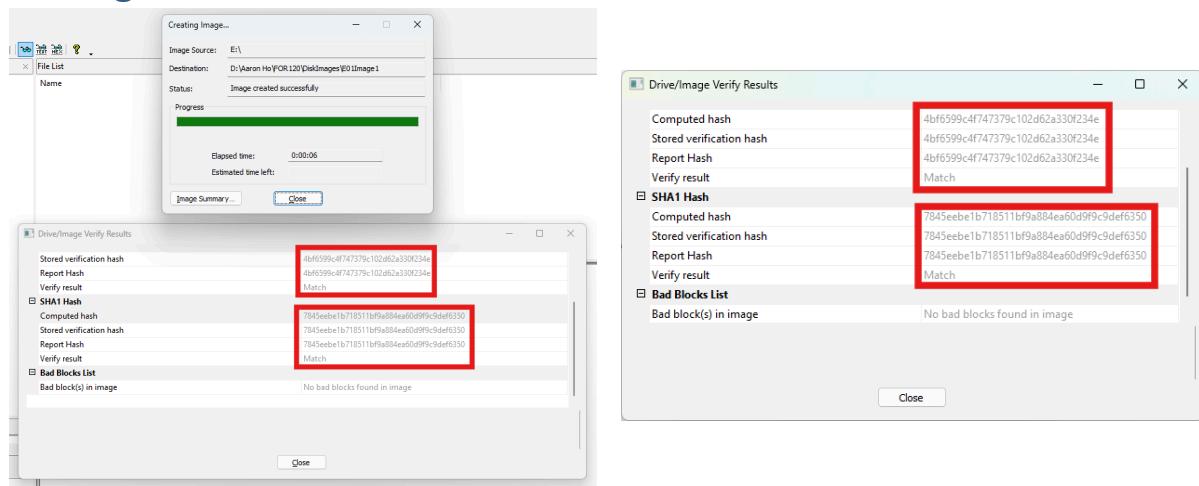


Image #5 and 6 - In this screenshot, Investigator Ho has verified the hashes of the E01 images using FTK Imager. These are emphasized in red.

Summary/Conclusion

Investigators Aaron Ho and Connor Schuler each took E01 physical images of a Kingston 2.5" SATA SSD using a Coolgear SS-127ASD write-blocker and FTK Imager. These images were cross validated in FTK imager and had the same hash values. This validates the images taken by the investigators.

Signed by

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