

ABSTRACT

RECOVERY DATA ON SOCIAL MEDIA INSTAGRAM AND TIK TOK USING NIST 800-86 METHOD

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Crime is now increasing in the development of this smartphone, namely crime in social media. Instagram and tiktok are social media applications with the most users in this era. Every crime on social media that is committed must leave a digital evidence. The science of analyzing and finding digital evidence in a cybercrime case is called digital forensics. Therefore, this study aims to find digital evidence that has been deleted on Instagram and Tiktok social media applications that are accessed via smartphones using the National Institute of Standards and Technology (NIST) method and find out the performance of the forensic tools used in restoring the deleted data. To get digital evidence on Instagram and TikTok, we use tools in the form of third software, namely MOBILedit Forensic Express, Autopsy and FTK Imager tools. With the final results in this study, for the Instagram application, the mobileedit forensic express tools were able to acquire evidence with a percentage of 0.02%, for autopsy tools 26%, and FTK Imager with a percentage of 57%. For the TikTok application itself, Mobiledit Forensic Express gets a percentage of 0.02%, while autopsy is 29%, and the last is the FTK Imager tool with a percentage of 71%. In this study, the FTK Imager tool is superior in the acquisition of evidence between the two applications.

Keyword : Digital Evidence, Digital Forensics, Social Media, Mobile Forensics, NIST