

ABSTRACT

The development of telecommunications has accelerated since the existence of internet-based instant messaging services has grown rapidly throughout the world. One type of instant messaging application is WhatsApp, which has many features including being able to send text messages, media, location and many other features that help to send information. Supported by encryption functions to keep user data safe. However, from the popularity and features offered on WhatsApp, it can lead to potential crimes that are used by the community for criminal purposes through the available features. From this incident, it was difficult to get physical access to the artifact data into database WhatsApp, as well as the use of manual analysis methods which of course took a long time for the investigation process related to the activities carried out by the account owner. In this study, for the data collection process to be effective, a digital forensic investigation is needed.

This study describes the steps to get data on the WhatsApp database. The methodology used in this study is based on NIST 800-101r1. The result of this research is to create an acquisition application to assist investigators in conducting forensics. The effectiveness of acquisition using the application is proven to make the process easier and get results that are 100% accurate and 80% more time efficient than using the manual method. The data obtained can then be used as evidence in legal proceedings.

Keyword: *Android Forensics, Digital Evidence, Whatsapp Application, Forensic Procedure.*