

Abstract

The development of technology in the current era is very fast where everyone is required to keep up with existing developments such as the internet, the use of the internet from year to year is increasingly used in all fields to facilitate everything needed. Judging from the large number of internet users, it has resulted in increased browser usage, but the increased use of this browser has an impact on internet crimes such as fraud, hacking, email spam, and many others even though the browser is in private mode. private mode. Therefore, the researcher wants to show the importance of recognizing the activities that exist behind the browser in private mode so that browser users understand the privacy data that has been entered into the browser in private mode. In this case the author conducts forensic analysis using the National Institute Of Justice (NIJ) method to determine the security of Chrome, Mozilla, and Opera browsers using Private mode. Apart from that, researchers also use the FTK Imager tool which will make it easier to perform forensic analysis. live forensics to get the results of the research conducted by the author. Researchers managed to reveal that private browsers are not completely safe and do not leave any traces, such as the 3 browsers studied using the FTK Imager tool. as well as the 3 browsers studied using private mode leave traces that can lead to crimes that will harm the owner of the data. so it can be concluded that the three browsers examined in the study that the three browsers examined in this study are not safe to use.

Keywords: *Browser, private browser, FTK Imager, Forensik*