ABSTRACT

From time to time, criminality rate in indonesia has proven to be increasing as well. The criminality that has been done it have many variety as well, the traditional way or the modern way. For the modern way, the perpetrators usually using technology. Technology that the perpetrators mostly use is computer. To resolve it, then there is something called digital forensic.

In this research risk calculation is done based on vulnerability and threat approach, after getting risk ranking forensic function determination is done based on risk ranking. After getting forensic function choosing software that could do forensic on VulnOS2 based on Digital Forensic Readiness is done. Vulnerability data is obtained from OpenVAS scanning result, while threat data is obtained from 10 walkthrough that already chosen.

From data analysis result is obtained the biggest risk got 120 score, while on second ranking have 28.6 score risk and third and fourth risk have 0 risk score. Based on risk ranking is obtained that VulnOS2 have network forensic required risk function, while computer forensic is a complement function. After that software choosing that can do forensic on VulnOS2 based on Digital Forensic Readiness is done and is obtained that software that can do forensic on VulnOS2 are Wireshark, Xplico and NetworkMiner.

Keywords : digital forensic, risk ranking, Digital Forensic Readiness framework and forensic function .