

## Abstract

Confidentiality of personal data as well as big scale such as company is a things that need to be guarded so cannot be known by others freely. One way to keep the confidentiality is to perform data deletion on media storage. However, data deletion that performed normally will be easier to do data recovery using software that scattered freely on the internet. Therefore required special technique to do data deletion so that can't be easily recovered by unauthorized people.

In this final task will be held data deletion technique test on media storage normally and using two data deletion method which is DoD 5220.22 and Gutmann. The test parameters will be seen recovered data, data integrity, and time to do data recovery In the end of the test obtained result that data deletion using DoD 5220.22 as well as Gutmann method better than deletion that do normally, while between DoD 5220.22 and Gutmann methods will produce performance that better in DoD 5220.22 method.

DoD 5220.22 as well as Gutmann method is enough to do data deletion safely and hard to do recovery using a normal way. However it's still possible that recovery could do with a tools or technique that more advance.

**Keywords:** *anti-forensic, file-recovery, wiping, secure delete*