

## **ABSTRACT**

*The use of Hadoop as a big data processing framework has become a necessity to be protected from attacks. Implemented Kerberos on Hadoop to address attacks that could disrupt Hadoop systems. This study aims to carry out a security mechanism from the Authentication side by implementing Kerberos as a tool to secure Hadoop. From the results of the tests that have been carried out, the mechanism for securing Hadoop on the authentication side can be done by Kerberos. Kerberos has an authentication mechanism from a third party where users and services depend on a third party, namely the Kerberos server to authenticate with each other, known as Key Distributed Center (KDC). All evidence related security information of system performance is recorded and stored in log.*

*Keywords— Hadoop, Kerberos, Security, Security on Hadoop*