

## **ABSTRACT**

*The use of information systems is needed in modern times by educational institutions, information systems urgently need a security system capable of maintaining the confidentiality of sensitive data, as well as Information Systems for The SMK 1 Garut March that also requires security system.*

*Any abuse of the internet for their attacks Hackers jeopardize the security of the data that is sensitive, it is necessary to know the security system that is capable of internet abuse disorders.*

*Intrusion Detection System (IDS) is a software application or hardware device that can detect suspicious activity in a system or network. IDS can inspect inbound and outbound traffic in a system or network, perform analysis and search for evidence of attempted intrusion (intrusions). Intrusion Prevention System (IPS) is a combination between the amenities of a firewall blocking capabilities and depth of data packet inspection of Intrusion Detection System (IDS). From both applications can prevent and secure the data-sensitive data from hackers trying to break into the network.*

*keyword : Intrusion Detection System, Intrusion Prevention System (IPS) , Hacker, firewall, blocking capabilities .*