

ABSTRACT

The Internet makes information communication world today is extremely easy and fast, easy it also caused a lot of crime in cyber world. Cyber crime can attack computer networks, breaking into the network and then retrieve data – confidential data and paralyze computer network system. Then needed a secure system, so can the susceptibility and address the perpetrators of cyber crime in the conduct of its activities. To tackle cyber crime, requiring a system that features firewall and Intrusion Prevention System (IPS). Features of Firewall and Intrusion Prevention system (IPS) can be applied in the operating system IPFire. Implementation of Firewall and Intrusion Prevention System (IPS) with IPFire operating system can provide the solution to protect the server, blocking attacks. At the time of testing Port Scanning, Dos Attack, Brute Force Attack then the system can record the log attacks, sending notification mails, block attacks, as well as doing testing URL Filter on the website.

Keywords: Firewall, Intrusion Prevention System, IPFire.