ABSTRACT

Along with the development of communication wo*RL*d, computer trafik's density has also increase. There is a possibility of serial network attack that can cause trouble of the network trafik. One of the attacks that frequently happen is *DDoS*. According to (10) *DDoS* is to cripple an online service by sending extremely large volumes of packets to a victim machine running the service.

After the system detect an anomali and identify every attack, the next thing to do is making a right decision to handle the attack. In this case *Reinforcement Learning* can be applied as a method used to overcome the anomali.

This result of this research, the system built can work well to overcome the anomali. The attack happened will be analyzed first using *Reinforcement Learning* process also helped with *Markov Decision Process*.