Research on DDoS attack prevention methods using IDS combined with proxy firewall

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Abstract: In the context of the increasing number of DDoS attacks, this research aims to develop an effective protection system based on the combination of an Intrusion Detection System (IDS) and a Proxy Firewall. The topic focuses on designing and implementing a new method, combining research theory with experimentation to evaluate the system's protection performance. The expected results of the topic not only provide a feasible solution for network organizations but also contribute significantly to the development of cybersecurity technology.

Keywords: DDoS Prevention, IDS, Proxy Firewall, Network Security, Attack Control