Abstract

In cyberworld, resource accessibility has a key part in digital security alongside confidentiality and trustworthiness. Distributed Denial of Service (DDoS) attack has turned into an intriguing issue to the availability of assets in computer networks. In this paper, DDoS attacks at different layers of TCP/IP protocol are scrutinized and comparison of existing GUI DDoS tools with a distinct DDoS script is done so as to know the trend of attacking technique used by the assailants to perform an attack. Various defense tools are analyzed and comparison of existing defense mechanism with a distinct hybrid protection methodology is done. This paper aims to provide a superior comprehension of the current DDoS tools, protective mechanisms, and comparative analysis of them. Existing deficiencies in tools and defensive techniques are examined and reduced to improve the efficiency.

References

1. Christos Douligeris, Aikaterini Mitrokotsa. 2003 DDoS attacks and defense mechanisms:
DDoS Simulation and Hybrid DDoS Defense Mechanism


Index Terms

Computer Science  Security

Keywords

Cyber-attack, Cyber security, DDoS Attack, DDoS Attack Tools, Vulnerability, Mitigation