

Research and testing of distributed denial of service attack techniques and defense solutions

Dao Duc Khiem

Abstract: This topic aims to study the distributed denial-of-service (DDoS) attack techniques that are prevalent in practice and propose effective defense measures. By synthesizing modern attack methods, the research identifies trends and key weaknesses in current network systems. The approach includes both theoretical research and practical experimentation with specialized tools. The objective of the topic is to develop a comprehensive protection solution to enhance the security of network organizations. The expected results of this study will provide valuable information for system administrators and support the process of improving network architecture.

Keywords: DDoS attack, network defense, network engineering, network security, protection solutions