

TENDENCIES IN DEVELOPMENT OF DDOS ATTACKS AND THE DESIGN OF A SOFTWARE APPLICATION FOR DETECTING AND COUNTERING DDOS ATTACKS

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***ABSTRACT:** The report is devoted to the problem of protection against Distributed Denial of Service cyberattacks (DDoS attacks). Analysis of reports of several top vendors specializing in the field of information security is presented. It revealed that in recent years there are tendencies in growth of attacks' volume, duration and total number of DDoS attacks per resource. Conclusions are given on the possible further developments of DDoS attacks as the most massive of cyberthreats. Also, the report provides a brief review of scientific publications devoted to intellectual methods and algorithms for protection against DDoS attacks, which can be implemented in hardware and software solutions to counteract DDoS attacks. A general overview of the latest achievements and promising developments in the field of application of intellectual methods for detecting DDoS attacks is made. At the end of the report, the developed by our scientific group methods for detection and prevention of threats to information security aimed at denial of service are described.*

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