

MITIGATION OF SLOW HTTP ATTACKS ON INSTITUTIONAL WEB-BASED E-VOTING SYSTEMS IN KENYA

Various institutions in Kenya have adopted e voting systems in order to have efficient and reliable voting processes. However, e voting systems have proved to be susceptible to slow HTTP attacks since the 20th century. This proposal aims to address the shortcomings that current e voting systems in Kenyan institutions have. These include the fact that the security systems in place operate manually and secure systems only in regard to traffic. A slow HTTP attack can easily bypass such security measures and software since it uses very low bandwidth that can go undetected. On the other hand, security systems available for use in the market are too generic and expensive. The main objective of this proposal is to mitigate slow HTTP attack on web-based e-voting systems in Kenyan institutions. This paper proposes the use of a more secure, cost-friendly and user-specific software to secure institutional e voting systems from slow HTTP attack specifically by enhancing security at the application layer.

Keywords: e voting, slow HTTP attacks, mitigation, traffic, application layer

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