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Penalizing Attackers Traffic using Statistical Methods

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Abstract - Literature review revealed, distributed Denial of service attacks pose a hindrance to the successful functioning of the internet which, even today remains susceptible to such attacks. for a network to be reliable and efficient , a traffic model can be used to detect attack packets is the need of the hour. An adaptive DDoS mechanism, covariance modeling, derives the validity of a packet by measuring its similarity with other packets and compares them with a threshold matrix to discard the attackers packets. This packet takes a cue from the covariance modeling mechanism and roses a fourfold filtering scheme that discards the adversarys ackets in an optimized fashion. The first three filters serve the purpose of detecting the highly propable attack packets at a faster rate. The forth filter performs anomily detection by modeling the packet header and the packet payload. The overall model to study the efficiency of the four fold filtering mechanism has been deployed in the ANTS tool kit by with the KDD 99 traffic dataset. This solution is simple to implement and efficient in DDoS evasion and the result analysis prove that it can adopt to dynamically changing attacks .