DDoS attacks detection in the cloud using K-medoids algorithm

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Abstract— A denial of service (DoS) attack means that users cannot use a device or access server or network resources due to malicious cyber threats by an attacker, and Distributed Denial of Service (DDoS) attack is that several zombie PCs attack in the form of DoS. DDoS attacks are increasing daily, and DDoS attacks on the cloud are also growing. In this paper, since IDS/IPS operating outside the cloud does not recognize the inside, we propose a model to detect DDoS attacks by checking network traffic using the K-medoids algorithm, one of the clustering algorithms.

Keyword— DDoS, Clustering, Cloud Computing, Security, TCP/IP

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