SYN Flood Attack Detection based on Bayes Estimator (SFADBE) For MANET

Title	SYN Flood Attack Detection based on Bayes Estimator (SFADBE) For MANET
Publication Type	Conference Paper
Year of Publication	2019
Authors	Hussain, K., Hussain, S. J., Jhanjhi, N., Humayun, M.
Conference Name	2019 International Conference on Computer and Information Sciences (ICCIS)
Keywords	artificial intelligence, Bay Estimator, Clustering algorithms, composability, Firewalls (computing), Floods, MANET, MANET Attack Detection, Metrics, mobile ad hoc networks, Monitoring, probability, pubcrawl, Resiliency, Routing, Servers, SYN flood attack

Abstract

SYN flood attack is a very serious cause for disturbing the normal traffic in MANET. SYN flood attack takes advantage of the congestion caused by populating a specific route with unwanted traffic that results in the denial of services. In this paper, we proposed an Adaptive Detection Mechanism using Artificial Intelligence technique named as SYN Flood Attack Detection Based on Bayes Estimator (SFADBE) for Mobile ad hoc Network (MANET). In SFADBE, every node will gather the current information of the available channel and the secure and congested free (Best Path) channel for the traffic is selected. Due to constant congestion, the availability of the data path can be the cause of SYN Flood attack. By using this AI technique, we experienced the SYN Flood detection probability more than the others did. Simulation results show that our proposed SFADBE algorithm is low cost and robust as compared to the other existing approaches.

URL	https://ieeexplore.ieee.org/document/8716416
DOI	10.1109/ICCISci.2019.8716416
Citation Key	hussain_syn_2019

Artificial Intelligence Bay Estimator Clustering algorithms composability Firewalls (computing) Floods MANET MANET Attack Detection Metrics mobile ad hoc networks Monitoring probability pubcrawl Resiliency Routing Servers SYN flood attack