

عنوان مقاله:

Distributed Denial of Service Attack Detection UsingIntuitionistic Fuzzy Logic-based Trusted Node

محل انتشار:

بیست و یکمین کنفرانس سیستم های فازی ایران (سال: 1401)

تعداد صفحات اصل مقاله: 5

نویسندگان:

Faezeh Hassani Kabotarkhani - Department of Computer Science, Faculty of Mathematics and Computers, Shahid Bahonar University of Kerman, Kerman, Iran

Marjan Kuchaki Rafsanjani - Department of Computer Science, Faculty of Mathematics and Computers, Shahid Bahonar University of Kerman, Kerman, Iran

Fakhrosadat Fanian - Department of Computer Science, Faculty of Mathematics and Computers, Shahid Bahonar University of Kerman, Kerman, Iran

خلاصه مقاله:

This article proposes a general and lightweight security mechanism to detect malicious using an Intuitionistic Fuzzy Set (IFS).It is based on the principle of zero trust i.e., trust nothing and treat everything as hostile. While intuitionistic fuzzy logic has been used toremove uncertainty, the Fog architecture makes the proposed algorithm better than the Cloud architecture. When malicious activity isdetected, the proposed algorithm automatically restricts network access to Internet of Things (IoT) devices that initiated this activity and prevent other devices from being targeted. The proposed algorithm has been evaluated for Distributed Denial of Service (DDoS) attacksand the results of this evaluation have shown that the accuracy of the proposed algorithm works very well compared to other algorithms, and .this algorithm is also very scalable

کلمات کلیدی:

Distributed Denial of Service; Security; Intuitionistic Fuzzy Set; Fog computing

لینک ثابت مقاله در پایگاه سیویلیکا:

https://civilica.com/doc/1903353

