

Intrusion Detection System Based on Peer to Peer

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Abstract : Recently by the extension of internet usage, Research on the intrusion detection system takes a significant importance. Many of improvement systems prevent internal and external network attacks by providing security through firewalls and antivirus. In recently years, intrusion detection systems gradually turn from host-based systems and depend on O.S to the distributed systems which are running on multiple O.S. In this work, by considering the diversity of computer networks whit respect to structure, architecture, resource, services, users and also security goals requirement a fully distributed collaborative intrusion detection system based on peer to peer architecture is suggested. in this platform each partner device (matched device) considered as a peer-to-peer network. All transmitted information to network are visible only for device that use security scanning of a source. Experimental results show that the distributed architecture is significantly upgradeable in respect to centralized approach.

Keywords : network, intrusion detection system, peer to peer, internal and external network

Conference Title : ICECSE 2015 : International Conference on Electrical, Computer and Systems Engineering

Conference Location : Istanbul, Türkiye

Conference Dates : February 16-17, 2015