Abstract

Intrusion detection system (IDS) is the security mechanism that gathers and analyzes the information to detect unwanted attempts of accessing and manipulating the user and system activities and report it to the management station. A Mobile agent (MA) is a composition of computer software and data which is able to migrate (move) from one computer to another autonomously and continue its execution on the destination computer. Taking the recent development i.e. going to this field, mobile agent based intrusion detection system is an efficient
way to the intrusion detection in the distributed environment. This paper is a review paper and currently summarizes the current state of the mobile agent based intrusion detection system. We discuss the performance gain that occur using mobile agent on intrusion detection system and review the existing mobile agent based intrusion detection system [MA-IDS] focusing on each of the categories of the classification, techniques used and the shortcomings of the current IDS design and implementations. Analyzing the existing [MA-IDS], we suggest some improvement that can be done in the existing system to avoid the malicious activities for the future security of the computer systems and the network.

Reference

5. Farah Barika KTATA, Nabil KADHI, Khaled GHEDIRA, Distributed agent architecture for intrusion detection based on new metrics, NSS 09, The Third International Conference, doi:10.1109/NSS.2009.50
9. Abolfazl Esfandi, Efficient anomaly intrusion detection system in adhoc networks by mobile agents, Computer Science and Information Technology (ICCSIT), 2010 3rd IEEE International Conference, DOI: 10.1109/IICCSIT.2010.5563804
11. Jo1
Environments Using a Multi agent-Multi key Approach", in Proc. 2nd IEEE International Conference on Computer Science and Information Technology, Vol. 4, August 2009, pp. 438-442.


15. Jing Xu, Yongzhong Li, A New Distributed Intrusion Detection Model Based on Immune Mobile Agent, Issued in APCIP2009, Doi: 10.1109/APCIP.2009.249.


22. Mo Xiu-Liang, WANG Chun-Dong, WANG Huai-bin, ” A Distributed Intrusion Detection System Based on Mobile Agents”, BMEI ’09, DoI: 10.1109/BMEI.2009.5305477.


Index Terms

Computer Science Communications

Key words

Intrusion detection system (IDS)

Mobile agent (MA)