Evolution and Detection of Polymorphic and Metamorphic Malwares: A Survey

Volume 90 - Number 2

Year of Publication: 2014

Authors:
Ashu Sharma
S. K. Sahay

10.5120/15544-4098

Abstract

Malwares are big threat to digital world and evolving with high complexity. It can penetrate networks, steal confidential information from computers, bring down servers and can cripple infrastructures etc. To combat the threat/attacks from the malwares, anti-malwares have been developed. The existing anti-malwares are mostly based on the assumption that the malware structure does not change appreciably. But the recent advancement in second generation malwares can create variants and hence posed a challenge to anti-malwares developers. To combat the threat/attacks from the second generation malwares with low false alarm we present our survey on malwares and its detection techniques.

References


- F. Labs, F-Secure H1 2013 Threat Report, 2013. 10


- Tran, N. and Lee, M. "High performance string matching for security applications," Proceedings of the International Conference on ICT for Smart Society, Jakarta 2013 June 13-14, 15. 11


Zheng, M., Sun, M. and Lui, J. "Droid Analytics: A Signature Based Analytic System to Collect, Extract, Analyze and Associate Android Malware"; Proceedings of the 12th IEEE International Conference on Trust, Security and Privacy in Computing and
Communications (TrustCom 13), Melbourne, Australia, July 2013.

- Mila, Mobile malware mini dump [Database on the Internet] Contagio Mobile [updated 2013 Sep 17; cited 2013 Oct 1], Available from: http://contagiominidump . blogspot. in

**Index Terms**

Computer Science  
Security

**Keywords**

Malwares  Antimalware  Polymorphic  Metamorphic.