Malware Detection Using Assembly And Api Call Sequences

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Two general malware detection methods presented in this paper are: Static Analyzer for Vicious Executables (SAVE) and Malware Examiner using Disassembled Code (MEDiC). MEDiC uses assembly calls for analysis and SAVE uses API calls (Static API call sequence and Static API call set) for analysis.

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We use two main techniques to detect malware: API call sequence in SAVE and Assembly in MEDiC. These techniqueswillbediscussedinSects.4and5,respectively,along with the analysis and the results. We also provide our conclusions and future work in Sect. 6. 2 Related Work

Malware detection using assembly and API call sequences
A malware detector is a system that attempts to determine whether a program has malicious intent. Current malware detectors work by checking for signatures, which attempt to capture the syntactic characteristics of the machine level byte sequence of the malware. This syntactic approach makes current detectors vulnerable to code obfuscations, increasingly used by malware writers that alter the syntactic properties of the malware byte sequence without significantly affecting their execution ...

Malware detection using assembly code and control flow ...
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Malware Detection Using Assembly And Api Call Sequences ...

Malware detection system is a system used to determine whether a program has malicious intent or not. Detection system includes two tasks - analysis and detection. Malware detector is used as a tool to defense against the malware. The qualities of such detectors are determined by the techniques it uses.

Malware and Malware Detection Techniques : A Survey

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Ding et al. , proposed a malware-detection method using a control flow analysis, which created an execution tree from

a binary file and extracted the possible execution paths. Then, using a 2-gram analysis, along with the information gain and document frequency, the opcode sequence feature that contributed most to the malware detection was chosen.

Malware-Detection Method with a Convolutional Recurrent ...

Malware detection can be simply considered as a binary classification problem, and traditional anti-virus software usually relies on static signature-based detection method , which has a significant limitation. some minor changes in malware can change the signature, so more malware could easily evade signature-based detection by encrypting, obfuscating or packing. Meanwhile, the zero-day malware can also evade this detection approach.

Malware Detection with LSTM using Opcode Language ¦ DeepAI

Detection of malware is done using static and dynamic analysis of malware signatures and behavior patterns. These are proven to be ineffective and time consuming while detecting unknown malware. In order to identify the new malware many machine learning algorithms are created.

Detection Of Malware Using Deep Learning Techniques

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The present disclosure describes systems and methods for

detecting malware. More particularly, the system includes a monitoring device that monitors side-channel activity of a target device.

US10693896B2 - Anomaly and malware detection using side ...

Generally, malware detection techniques consist of two main steps. The first one is the malware analysis and feature extraction and the second is the identification phase. For the first step, the two common methods, static and dynamic analysis as well as new hybrid approaches are described in Section 2.