Literature Survey 1:

Phishing Detection: A Literature Survey

Abstract:

This article surveys the literature on the detection of phishing attacks. Phishing

attacks target vulnerabilities that exist in systems due to the human factor. Many

cyber-attacks are spread via mechanisms that exploit weaknesses found in end-

users, which makes users the weakest element in the security chain. The phishing

problem is broad and no single silver-bullet solution exists to mitigate all the

vulnerabilities effectively, thus multiple techniques are often implemented to

mitigate specific attacks. This paper aims at surveying many of the recently

proposed phishing mitigation techniques. A high-level overview of various

categories of phishing mitigation techniques is also presented, such as: detection,

offensive defense, correction, and prevention, which we belief is critical to present

where the phishing detection techniques fit in the overall mitigation process.

(Mahmoud Khonji, Youssef Iraqi, Senior Member, IEEE, and Andrew Jones.)

Literature Survey 2:

A Survey of Phishing Attack Technique:

Abstract: It is a crime to practice phishing by employing technical tricks and social

engineering to exploit the innocence of unaware users. This methodology usually

covers up a trustworthy entity so as to influence a consumer to execute an action if

asked by the imitated entity. Most of the times, phishing attacks are being noticed

by the practiced users but security is a main motive for the basic users as they are

not aware of such circumstances. However, some methodologies are limited to look after the phishing attacks only and the delay in detection is mandatory. In this paper we emphasize the various techniques used for the detection of phishing attacks. We have also discovered various techniques for detection and prevention of phishing. Apart from that, we have introduced a new model for detection and prevention of phishing attacks.

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Literature Survey 3:

A survey on anti-phishing in websites:

ABSTRACT

Abstract. Phishing and fraud sites have been widespread on the internet in recent times, which's become a source of great concern and a serious cybersecurity problem, as internet fraudsters target sensitive data and personal information of users, especially the username and password. Numerous approaches have been proposed and used to prevent and reduce these phishing websites and attacks, and protect users and their privacy. In this paper, we categorized the present antiphishing approaches into two main classes: Content-based and Non-content-based. The content-based approach is also classified into URL content analysis and webpage content analysis. This helps in finding out numerous anti-phishing techniques and algorithms to choose the best approach in future contributions.

(Robat D., Mukhter H., Shariful I., Abujarr S.2019. Learning a Deep Neural

Network for Predicting Phishing Website. PhD Thesis, Brac University, Bangladesh.)

Literature Survey 4:

Phishing Detection using Machine Learning based URL Analysis:

Abstract: As we have moved most of our financial, work related and other daily activities to the internet, we are exposed to greater risks in the form of cybercrimes. URL based phishing attacks are one of the most common threats to the internet users. In this type of attack, the attacker exploits the human vulnerability rather than software flaws. It targets both individuals and organizations, induces them to click on URLs that look secure, and steal confidential information or inject malware on our system. Different machine learning algorithms are being used for the detection of phishing URLs, that is, to classify a URL as phishing or legitimate. Researchers are constantly trying to improve the performance of existing models and increase their accuracy. In this work we aim to review various machine learning methods used for this purpose, along with datasets and URL features used to train the machine learning models. The performance of different machine learning algorithms and the methods used to increase their accuracy measures are discussed and analyzed. The goal is to create a survey resource for researchers to learn the current developments in the field and contribute in making phishing detection models that yield more accurate results.

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Literature Survey 5:

A Survey of Phishing Website Detection Systems:

Abstract: Phishing URL is a widely used and common technique for cybersecurity attacks. Phishing is a cybercrime that tries to trick the targeted users into exposing their private and sensitive information to the attacker. The motive of the attacker is to gain access to personal information such as usernames, login credentials, passwords, financial account details, social networking data, and personal addresses. These private credentials are then often used for malicious activities such as identity theft, notoriety, financial gain, reputation damage, and many more illegal activities. This paper aims to provide a comprehensive and comparative study of various existing free service systems and research based systems used for phishing website detection. The systems in this survey range from different detection techniques and tools used by many researchers. The approach included in these researched papers ranges from Blacklist and Heuristic features to visual and content-based features. The studies presented here use advanced machine learning and deep learning algorithms to achieve better precision and higher accuracy while categorizing websites as phishing or benign. This article would provide a better understanding of the current trends and existing systems in the phishing detection domain.

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