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PG Department of Computer Applications

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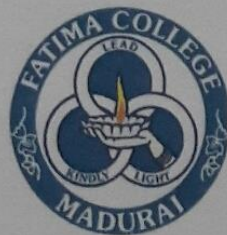
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A STUDY ON CYBER ATTACK DETECTION AND ANALYSING VARIOUS PREVENTION TECHNIQUES

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Abstract

Cyber attack is a common term that hears everywhere. Data that are transfer and store should be secure. Social media play a vital role in today's world. Information storage is repository that enables the users to persistently store the data. Each and every second the data is proliferated. So, in this paper we discuss about types of hackers to hack data, Survey on cyber attack and latest news on cyber attack, various prevention methods and analyzing which is the best one. So, we conclude with that combining the crypto and steganography is a more powerful method in the cyber useful to safeguard the data from cyber attack.

Keywords: repository, Persistently, Proliferation, cryptography, encryption, steganography

Introduction

Social media plays a vital role in today's world. Data that generated is proliferated for every second. Organizations are also process the data and store as a repository that enables users to persistently store and retrieve the digital data. Now all the data generated by the users are in the digital form eg. book as e-book, magazines as e-magazines, letters as e-mail, photos and videos as digital photos & videos. The data stored are beyond the limit such as big data. Data are collected from the various devices and from multiple locations. The data is transfer from and to the various sectors but we simply sit before the monitor and click the send button we don't know how secure the data are transfer through the social media. As the technology is evolved the crime rate also increases rapidly. We are in the digital era and we talk about the digital India all the transactions are done through online. In the petti shop itself they have the machine to collect the amount from the customers. Now a day's all the organization are pay their salary through ATM. Through the social media such as What's App, Facebook, twitter, Instagram we are sending and receiving lots of messages, photos and video So we need a high rate protection on the data that we transfer. Common word that we talk in this commercial world is Cyber attack. Cyber attack is that any type of offensive that attempt by hackers to damage a computer network or system. Hence the word Cyber Security places a vital role. The aim of the cyber security is not only to secure the information in the IT sector but to secure all types of data that transfer through network. Even the emerging technologies like e-commerce, mobile transaction, pay tm, cloud computing, net banking etc needs the high level of security. Protecting the data is not only essential for IT field it should strictly maintain by the government by passing laws towards the crime that done hackers. Many Foreign countries pass strict laws on cyber security to prevent the loss of data. Everyone should know the way how to secure our personal data from the hackers. And to detect the way how our data is hack by the intruders. In this paper we discussed about the various types of hackers, statistical survey on cyber attack, various detection methods and the prevention measures taken by the cyber security agencies.