Abstract

Computer network security has been a subject of concern for a long period. Many efforts have been made to address the existing and emerging threats such as viruses and Trojan among others without any significant success. Worse, new issues and threats have been emerging given that technology changes and becomes obsolete in a short while. In this regard, this research delves into the current network security issues in order to give future directions of research in a bid to help security technologists know where to focus their resources. This research examines the threats in terms of whether they are hardware or software issues. The need of this research is well articulated with the current security threats and countermeasures clearly outlined. The research found the following as the current major security threats: social engineering and phishing, malware infiltration through external hardware and removable media, malware infection through intranet and Internet, invasion through remote access, human sabotage or error, DDoS attacks, and cloud and extranet components being compromised.

References

Index Terms

Computer Science Security

Keywords

Computer Networks, Security, Threat, Attack