

# A Network Security Review

**Pratik G. Dhange, Ashwini A. Patil, Gaurav V. Barde, Dhanshree S. Joshi**

Department of Computer Engineering, Late G. N. Sapkal College of Engineering, Nashik, India

**Abstract:** The introduction of the Worldwide Organizations worldwide have benefited from the Web and the rise of e-commerce applications and social networks. generate a lot of data every day. The most important factor in guaranteeing secure online information transfer is data security. Network professionals are becoming more and more interested in computer network security as businesses spend more time and money securing their sensitive data. The importance of network security challenges is also growing as society transitions to the digital information era. Any network, whether it is for a school, college, university, the government, or the military, must prioritise network security. With the development of networking technology, protecting the network from knowledgeable hackers and attackers has become a very difficult task. Saving your network is a major concern. Therefore, it is crucial to comprehend the various risks that might affect any network, as well as the origins of those threats and the solutions to them, which are discussed below.

**Keywords:** Introduction, Needs of Network Security, CIA Triad, Problems, Countermeasures, Conclusion.

## REFERENCES

- [1] R. Khan, "Network Threats, Attacks and Security Measures: a Review," Int. J. Adv. Res. Comput. Sci., vol. 8, no. 8, pp. 116–120, 2017.
- [2] A. Funmilola and A. Oluwafemi, "Review of Computer Network Security System," Netw. Complex Syst., vol. 5, no. 5, pp. 40–47, 2015.
- [3] Adeyinka, O., "Internet Attack Methods and Internet Security Technology," Modeling & Simulation, 2008. AICMS 08. Second Asia International Conference on, vol., no., pp. 77–82, 13–15 May 2008 Al Salqan, Y.Y., "Future trends in Internet security," Distributed Computing Systems, 1997.
- [4] Shyam Nandan Kumar, "Technique for Security of Multimedia using Neural Network," Paper id-IJRETM-2014-02-05-020, IJRETM, Vol: 02, Issue: 05, pp. 1–7. Sep-2014.
- [5] Simmonds, A.; Sandilands, P.; van Ekert, L (2004). "An Ontology for Network Security Attacks". Lecture Notes in Computer Science. Lecture Notes in Computer Science 3285: 317–323.
- [6] Carle E. Landwehr, "Security Issues in Networks with Internet Access", Member, IEEE.
- [7] <http://whatis.techtarget.com/definition/Confidentiality-integrity-and-availability-CIA>
- [8] Bellare, Mihir; Rogaway, Phillip (21 September 2005). "Introduction". Introduction to Modern Cryptography. p. 10.
- [9] Menezes, A. J.; van Oorschot, P. C.; Vanstone, S. "A. Handbook of Applied Cryptography". ISBN 0-8493-8523-7.