Network Security

CMPS-485

Course Project-Phase 1

Deadline: 21st February 2022

Project Title: Performance comparison of state of art of block and stream ciphers over TCP/UDP protocol for different types of wired/wireless networks and applications.

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Abstract: The idea of performance comparison of state of an art of block and stream cipher is to understand how these are used to transmit the data over the network and analyze on different errors that lead to difference in the transmitted data. Also, Changes of message bits due to the message being transmitted on wired or wireless media and its affect on the original message is also to be analyzed.

Objectives:

- Performance comparison between block and stream cipher over TCP/UDP protocol for wired media.
- Performance comparison between block and stream cipher over TCP/UDP protocol for wireless media.
- Practically implement and analyze performance comparison between block and stream cipher over the network.

Project deliverables:

- Project implementation (simulation)
- performance comparison measures over wired and wireless media with examples (transfer of an image using block and the same in stream and analyze the output based on the errors caused by different sources that the data bits could possibly face)