

National University of Computer and Emerging Sciences



Course Title: Information Security

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Section: BSSE-7B

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Title:

Real-Time HTTP Intrusion Detection Using Firebase Cloud Messaging

Abstract:

This project outlines the development of a real-time HTTP Intrusion Detection System (IDS). It aims to mitigate web security risks by promptly detecting and reporting server intrusions to system administrators via a Telegram bot, ensuring the swift implementation of protective measures. Utilizing Firebase Cloud Messaging (FCM), this system demonstrates superior performance in attack detection and notification delivery speed compared to traditional methods.

Introduction:

A http protocol intrusion detection system that monitors the intrusion in real time and notify using telegram bot. Objective is to develop an IDS that provides real-time detection of HTTP-based attacks. To utilize FCM for expedited alert delivery to system administrators.

Methodology:

Use Firebase and suitable programming language to develop the messaging system for real time intrusion reporting.

Expected Outcomes:

A partial to fully functional project of IDS capable of real-time detection and alerting.