Learn and exploit IDS, IPS features in Snort software.

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Abstract: In the context of increasingly emphasized network security, this topic focuses on studying and evaluating the features of Intrusion Detection System (IDS) and Intrusion Prevention System (IPS) based on Snort software. The main objective is to build an effective network security monitoring system to detect and prevent cyber attacks. The research methodology includes theoretical analysis and experimental deployment in a test environment to assess Snort's capability in identifying abnormal activities and responding to them. The expected outcome of this topic is to provide an effective security solution for network organizations while contributing to the development of Snort technology in the field of network security.

Keywords: Intrusion Detection System, Intrusion Prevention System, Snort, Network Security, Attack Analysis