Design and deployment of an intrusion detection system based on open-source IDS/IPS combined with Firewall

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Abstract: This topic focuses on designing and deploying an open-source-based intrusion detection/prevention system (IDS/IPS) integrated with a firewall. Aiming to address the increasingly serious network security issues in practice, this research seeks to build a flexible and efficient system. The applied methodology includes both theoretical and experimental research to ensure the system's comprehensiveness. Expected results will provide a robust network security solution for organizations and individuals, making a significant contribution to the field of information technology.

Keywords: Intrusion Detection System (IDS/IPS), Open Source, Firewall, Network Security, Experimentation