Research and deployment of an intrusion detection system on the Linux operating system

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Abstract: In the increasingly complex context of cybersecurity, protecting Linux systems from intrusion attacks has become crucial. This topic focuses on researching and deploying an intrusion detection system (IDS) for the Linux operating system. The goal is to build an effective solution for early detection of abnormal activities to ensure information security. The research method is based on a combination of IDS theory and practical deployment in a real environment, with the hope of improving defense capabilities against cyber threats. The topic is expected to make a significant contribution to enhancing system security for Linux.

Keywords: Linux operating system, Intrusion Detection System (IDS), Network security