

Research and development of an IDS/IPS intrusion detection and prevention system for Thai Nguyen University of Technology and Industry

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Abstract: In the context of increasingly numerous cybersecurity threats, this study aims to propose and build an intrusion detection and prevention system (IDS/IPS) for the Industrial Technology College of a university. This system will ensure the security of the school's network environment and prevent potential attacks. By combining theoretical research with practical application development, the goal is to provide a comprehensive and effective protection mechanism for the campus network. The expected results not only enhance the level of network security but also aim to have a positive impact on the technical construction of similar educational institutions.

Keywords: Network security, intrusion detection system, campus network, protection technology, industrial technology college