

Research and development of a Port Scanning attack detection system on LAN using Machine Learning

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Abstract: In the context of increasing attention to cybersecurity, early detection of port scanning attacks on LAN networks has become an urgent requirement. This project aims to build a machine learning-based system to automate the monitoring and identification of abnormal activities on network ports. Through a combination of theoretical research and experimentation, the project will provide an effective solution for securing internal networks. The expected results of this project will not only enhance attack detection capabilities but also contribute to the development of effective network protection strategies.

Keywords: Port Scanning, Machine Learning, Cybersecurity, Monitoring System, LAN Security