

Design and simulation of a firewall system using ISA Server and wireless network connection authentication via Radius Server for G8 Technology Consulting and Transfer Joint Stock Company - Hanoi

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Abstract: In the increasingly complex context of cybersecurity, this study aims to design and deploy a firewall system based on ISA Server at G8 Technology Consulting and Transfer Joint Stock Company. The main objective is to protect the internal network from external threats by authenticating wireless network connections through a Radius Server. The research methodology includes assessing the current status, analyzing requirements, and deploying simulations on the company's actual infrastructure. The expected outcome is to enhance security effectiveness while optimizing the wireless network connection management process.

Keywords: firewall, ISA Server, Radius authentication, wireless network, network security