

Design and simulate a Layer 2 security network, integrating Layer 3 security policies for Tan Thanh Company - Ho Chi Minh City.

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Abstract: The current context of increasing information security threats has clarified the essential need for effective secure network systems. This topic focuses on designing and simulating a Layer 2 security network, while integrating Layer 3 security policies to ensure integrity, availability, and confidentiality for Tan Thanh Company in Ho Chi Minh City. The objective of the research is to build an effective network security system, based on experimental simulation to address the problem of protecting critical information within the enterprise. The approach includes theoretical research along with application deployment to verify the feasibility of the security policies. The expected outcome of this topic is a secure network system, providing a foundation for enhancing enterprise information protection capabilities in the future.

Keywords: Network security, Security policy, Network simulation, Enterprise, Ho Chi Minh City