

Design of WLAN network for Kien Anh Investment and Trading Company Limited - Hanoi

Nguyen Van Tan

Abstract: In the modern context, the application of wireless LAN in enterprises is becoming increasingly widespread. This study aims to design and optimize the wireless local area network (WLAN) for Kiên Anh Investment and Trade Co., Ltd., located in Hanoi, Vietnam, to improve office efficiency and network stability. Through theoretical analysis combined with practical deployment, we will evaluate the existing network infrastructure and propose improvement solutions. The research will cover key aspects such as network architecture selection, security measure formulation, and performance testing. The implementation of this project will not only significantly enhance Kiên Anh's business processes but also set a technological benchmark for similar enterprises.

Keywords: WLAN design, network optimization, wireless LAN applications