

# **Design and deploy a firewall system to protect a small enterprise network using Fortinet combined with IDS/IPS.**

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**Abstract:** This topic aims to analyze the network security needs of small businesses, thereby designing and deploying a Firewall system based on the Fortinet platform. Through theoretical and experimental research, the topic focuses on integrating IDS/IPS to enhance monitoring and threat detection capabilities. The objective of the work is to provide small businesses with an effective, cost-saving, and easy-to-operate network protection solution. The expected result is to contribute to raising awareness of network security within the small business community and promote sustainable development.

**Keywords:** Firewall, Fortinet, IDS/IPS, Network Security, Small Business