

ABSTRACT

Land Office is a government entity with unique needs in terms of network infrastructure. The quality of stable internet access and efficient LAN management is of utmost importance for its day-to-day operations. This research aims to enhance and upgrade the network infrastructure at the Land Office by utilizing Mikrotik devices and implementing a star network topology. The study involves an in-depth analysis of the optimal Mikrotik configurations to manage internet traffic and LAN resource management at the Land Office. The star topology was chosen to minimize downtime and facilitate network monitoring and maintenance. In this context, Mikrotik acts as a central controller that coordinates all devices in the star network, ensuring reliable connectivity. The results of this research are expected to provide practical guidelines for Land Offices and similar institutions to improve the efficiency of their network infrastructure, ensure stable internet access, and maximize LAN management to support day-to-day operations. By utilizing Mikrotik and a star network topology, Land Offices can achieve a higher level of efficiency and enhance their services to the public.

Keyword: Mikrotik, Internet Networking, Network Topology, LAN