

IPSec security protocol in IPv6

Le Thi Ninh

Abstract: This topic focuses on analyzing and evaluating the IPsec security protocol in the context of Internet Protocol version 6 (IPv6). The background for selecting this topic is based on the need to enhance comprehensive network security, particularly in IPv6 systems with the increase in online services. The objective is to build an effective security architecture for the IPsec protocol in IPv6 to ensure information security. The research methodology includes conducting theoretical analysis combined with application testing to determine the feasibility and improvements of the protocol. The significance of this topic lies in providing a reliable security solution for IPv6 networks, making an important contribution to the field of network security research.

Keywords: IPsec, IPv6, Network security, Network security, Security architecture