

Research and simulation setup of MPLS-VPN network system for Yen Dung - Bac Giang electricity branch

Tran Thi Phuong

Abstract: In the context of increasingly enhanced management and efficient operation of network infrastructure, this topic focuses on researching and deploying a simulation of a Multiprotocol Label Switching Virtual Private Network (MPLS-VPN) system for the Yen Dung - Bac Giang electricity branch. Accordingly, the main objective of the topic is to identify and address specific technical requirements to establish a secure and efficient virtual private network between the main data center and peripheral facilities. The implementation method includes analyzing actual needs, designing a network model based on the MPLS-VPN standard, and deploying system acceptance testing. Through this research, the topic is expected to make an important contribution to improving service quality and optimizing the operational costs of the network infrastructure at the unit.

Keywords: MPLS-VPN, network management, network simulation