Abstract

The Internal Border Gateway Protocol network topology in an internet service company that is not well-designed can affect the convenience of service users such as the length of time the internet network is down when the Internal Border Gateway Protocol network has a problem. Therefore, it is necessary to design an Internal Border Gateway Protocol network topology that can meet the needs of service users. In this case, the internet connection service should always work. This study aims to build a failover system in one of the internet service providers which is PT. Quanta Tunas Abadi using the Network Development Life Cycle approach. The results of Internal Border Gateway Protocol network topology design became a proposal for the development of Internal Border Gateway Protocol networks at the PT. Quanta Tunas Abadi. The results of the implementation of a failover system using the Open Shortest Path First protocol and IP Loopback on the Internal Border Gateway Protocol network have a positive effect of being able to automatically move the Internal Border Gateway Protocol connection path within 3 seconds and the Border Gateway Protocol connection status remains established when the line of the main used is disconnected.
References

Index Terms

Computer Science  Networks

Keywords

Failover, Internal BGP, OSPF, Loopback IP