

ABSTRACT

Computer network is something that must be maintained its operational stability. To overcome the problems encountered and so that the network conditions are stable, it is necessary to have good network monitoring. The purpose of the development of network monitoring to utilize existing resources on a computer network system with as much and as efficient as possible. Based on observations on network monitoring system in PT. PLN (Persero) Aceh region to date uses console to check its network. Where the console has some drawbacks that must perform the process of ping one by one for one monitoring so it takes a long time and inefficient, then to get information that the network of a region is being disturbed must manually. Then required Network Monitoring application by utilizing web-based technology at PT. PLN (Persero) Region of Aceh. This application will be built with waterfall method with PHP programming language. In the database management will be used MySQL. Features network monitoring simultaneously with interfaces using Google Maps Multi Marker API technology to make it easier to see the network in which area, using SMS Gateway to provide network information that is happening problem and reporting according to network router disorder that happened in certain period.

Keywords: Computer Networking, PLN, Network monitoring, SMS Gateway.