Abstract

The ongoing expansion in the Internet is the cause of continuous utilization and traffic behaviour changes. Due to diversity and fast changing properties, the Internet is a moving target. The tremendous increase in usage of the internet has necessitated the development of a tool that can model the suitability and quality of a network in terms of software metric. The effective management of any network requires quantification, measuring and modeling that can depict the nature of a network. This paper illustrates an approach to calculate the Activeness of a Local Area Network (LAN) and describes a tool called LAN Activeness Calculator (LANAC). The paper describes the Network Activeness Metric (NAM) which can gauge the degree of readiness of a LAN to give a response.

References

1. Sachin Lakra, Bharti Jha, Nitin Bhardwaj, Ritu Saluja and Nand Kumar: “Metrics For The Pre-Development Phase Of Software Requirements Engineering”; Proceedings (Abstract) of
National Conference on Emerging Trends in Software Engineering and Information Technology, Gwalior, M.P., India; (29-30 March, 2007), 21


7. Xiaoyuan Ta, “A Quality of Service Monitoring System for Service Level Agreement Verification”, [Dissertation], School of Electrical and Information Engineering, University of Sydney, Sydney, Australia, March 2006.


Index Terms

Computer Science

Networks

Keywords

Local Area Network, Software Metrics, Activeness, Quality of Services, Network Activeness Metric, Local Area Network Activeness Calculator.