A Software Metric for the Activeness of a Local Area Network

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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.

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Index Terms

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Keywords

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