

ABSTRACT

The need for internet services is currently increasing. This is indicated by the large number of people who use internet services ranging from children to adults. In the online learning system at IT Telkom Jakarta, internet services are used to send e-mails, fill out attendance lists, attend online classes, and administer online-based exams. The use of internet services on campus B IT Telkom Jakarta is available in several rooms including lecturer rooms, classrooms, libraries, server rooms and laboratories. The network used must be of good quality. To be able to know the quality of the network is good or not, it is necessary to monitor using PRTG on the network. This study discusses the network conditions when the system is up/down on Switch Core and Switch 4th floor devices as well as the average speed of Bandwidth and the amount of traffic on Switch Core and Switch Floor 4 Campus B IT Telkom Jakarta. The results obtained in this network monitoring study, the switch core device received an average value of 7.51 Mbit/s and on the 4th Floor switch whose ports were connected to several rooms, namely lecture hall 402, the average value was < 0.01 Mbit/s. ,The computer lab got an average score of 0.43 Mbit/s, the Informatics Lab got an average score of 0.32 Mbit/s, Lecture room 401 got an average score of 0.01 Mbit/s, the Lecturer Room & Head of DKV Study Program got a score an average of 0.94 Mbit/s, DKV Lab got an average value of 0.28 Mbit/s.

Keywords: PRTG, *switch core*, *switch lantai 4*, dan *traffic*.