

Design and deployment of an open-source Cacti-based network monitoring system for the University of Information and Communication Technology

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Abstract: In the context of increasingly high demands for network security and performance, this topic focuses on designing and deploying a network monitoring system based on the open-source Cacti for the University of Information and Communication Technology. The objective of the research is to build an advanced network management solution that enhances network operational efficiency, ensures service quality, and optimizes resources. The research method combines theory with experimentation, including requirement analysis, user interface design, and system deployment. The expected outcome of the topic is to provide a powerful and flexible network monitoring tool suitable for the actual needs at the University of Information and Communication Technology, thereby contributing to improving network service quality and promoting research and development in information technology.

Keywords: Network monitoring, Cacti, Open source, Network management, University of Information and Communication Technology