

## ***ABSTRACT***

### ***IMPLEMENTATION AND ANALYSIS OF ICINGA SYSTEM MONITORING TOOLS AT DATA CENTER PT. XYZ***

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*Monitoring is one of the routine processes of collecting data and measuring objects of a program or system. Monitoring is done by getting and collecting data from several parameters such as network, bandwidth, links, services, traffic and so on. Currently, there are many tools that can be used in monitoring, one of which is Icinga. Icinga is an open source application that is commonly used for monitoring hosts, applications, services and links. Icinga stores information in a log in the form of graphs in detail and can be stored in the long term as well as notifications for changes in conditions in network monitoring.*

*Monitoring is done by ping testing the target, Icinga will broadcast periodically within 90 seconds for one test on one target. The test object is an ISP gateway used in the data center. The test result data will be sent back to the monitoring server to be converted into a log which will then be stored in the Icinga database and the test results will also be converted into a message to be sent to the user as notification.*

*The use of Icinga at the PT. XYZ is known to function very well, Monitoring links on ISPs, switches and Billers get an uptime ratio of 100.00% and monitoring links on Partners get an uptime ratio of 99.992% which is still in very good status.*

*Keyword : Icinga, bandwidth, Monitoring, Host, Link, Availability.*