

# CHAPTER 1

## INTRODUCTION

### 1.1 Background

The Internet's technology is improving at a rapid pace. The number of users continues to grow and develop until it reaches every corner of the globe. The internet network's ability to accelerate creativity and creation is one way to do just that. As long as an internet connection is available, data may be sent across long distances and at any time of day or night since there are no restrictions on when or where it can be sent. Internet access will be a need for everyone, including those who aren't online all the time. Technology for Management In order to achieve excellent governance, it is necessary to have effective means of communication and dissemination of information. Good governance ensures that the company's own information system is accountable and sustainable, and that it can benefit the public as far as possible via good governance (Astanti, 2015).

There are both beneficial and bad effects to the growth of information technology, one of which is the ability to get information quickly, and one of which is the emergence of cybercrime, which puts individuals and organizations at risk. One of the hottest topics in cybercrime prevention right now is the dissemination of security knowledge. Built-in system management security information might improve attack prevention.

According to data compiled from Pangkalan Data Pendidikan Tinggi (PDDikti) in 2021 the number of students enrolled at the Universitas Muhammadiyah Kalimantan Timur (UMKT) is 6,084 students, and many of these students use the UMKT server to access material. For those who are interested in learning more about the UMKT, this page has not yet been updated. As a result, the UMKT server may be vulnerable to a purposeful assault because of the large number of users viewing its data. So we required a way to ensure that the data server's upgrade quality could be evaluated.

Hardware, software, networks, computers, data and resources all power human beings; thus, an assessment of repair facility security is required. Gap-filling updates and repairs, as well as quality maintenance to recall investments that have been made, will be the primary goals of the examination of security information. In order to make UMKT's current security system more secure and robust, an examination is needed.

Learn more about how the Universitas Muhammadiyah Kalimantan Timur data center network is evaluated for security. The Indeks Keamanan Informasi (KAMI) can be used to evaluate this. SNI ISO/IEC 27001:2013 certification and governance area map security system information in a government agency or a government agency can be evaluated using the Indeks KAMI application (Badan Siber dan Sandi Negara, 2019). As a result of the research, the latter will serve as a resource for UMKT's repair and security information.

## **1.2 Formulas Problem**

Based on background back that has been stated, then formula problem in study this is "How are the results of the evaluation of information security at the UMKT Data Center using the Indeks Keamanan Informasi (KAMI)?"

## **1.3 Purpose Study**

Based on the formulation of the problem to be solved in this final project, the following are the objectives of the research to be carried out "Knowing the results of the evaluation of information security at the UMKT Data Center using the Indeks Kemanan Informasi (KAMI)"

## **1.4 Research Limits**

So that trouble no too widen from tree discussion, then scope limitation problem this covers evaluation security reviewed data center network from aspect place, framework and device related to use namely:

1. Scope evaluation only on management security information on the UMKT Data Center network as the place research.

2. Security audit information on the UMKT data center network is carried out with use Indeks KAMI 4.0 based on ISO /IEC 27001 standard which comprises from Category System Electric; Governance; Management risk; Framework work; Management Assets; Aspect Technology and Supplements.