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Private Cloud Development in West Java Cooperative and Entrepreneurship Education and Training Center
Topic: Informatic and Information System
Angga Setiyadi, Eko Budi Setiawan
Universitas Komputer Indonesia

The purpose of this research is to build a private cloud that is used as a web server and database server as well as an integrated data storage medium in the education and training center of cooperatives and entrepreneurs in West Java. The stages of research from the development of private cloud in the education and training center cooperatives and entrepreneurs in West Java adopted the method of the Network Development Life Cycle (NDLC). The stages in the network development life cycle consist of six stages including the analysis phase, the design phase, the simulation stage, the implementation phase, the monitoring phase and the regulatory stage. The results of this study are the existence and availability of server virtualization that is used to provide data-based services at the West Java Education and Cooperative Education and Entrepreneurship Training Center and the availability of integrated data storage at the education and training center of cooperatives and entrepreneurs in West Java. (Approx 193 words)

Keywords: Cloud Computing, Virtualization, Private Cloud

Abstract for ABS-56

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Private Cloud Development in West Java Cooperative and Entrepreneurship Education and Training Center

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Abstract. The purpose of this research is to build a private cloud that is used as a ftp server and database server as well as an integrated data storage medium in the education and training center of cooperatives and entrepreneurs in West Java. The stages of research from the development of private cloud in the education and training center cooperatives and entrepreneurs in West Java adopted the method of the Network Development Life Cycle (NDLC). The stages in the network development life cycle consist of six stages including the analysis phase, the design phase, the simulation stage, the implementation phase, the monitoring phase and the regulatory stage. The results of this study are the existence and availability of server virtualization that is used to provide data-based services at the West Java Education and Cooperative Education and Entrepreneurship Training Center and the availability of integrated data storage at the West Java Education and Cooperative Education and Entrepreneurship Training Center. The impact of this research is to be able to minimize the cost of procuring servers using private cloud using virtualization technology at the education and training center of cooperatives and entrepreneurs in West Java.

1. Introduction
Training Center for Cooperatives and Micro, Small and Medium Enterprises (BALATKOP) is one of the regional technical implementation units (UPTD) under the auspices of the Office of Cooperatives and SMEs which acts as a business clinic in solving cooperative problems [1]. The Cooperative and Micro, Small and Medium Enterprises (BALATKOP) Training Center is currently supporting a new entrepreneurship printing program in West Java. The activity that is always carried out by the Training Center for Cooperatives and Micro, Small and Medium Enterprises (BALATKOP)

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INTRODUCTION SECTION must contain only three paragraph.
First paragraph must discuss about the title. In first paragraph must contain minimal 1 reference.
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2.2. System Development Method

The method used in the construction of the Private Cloud at the Center for Education and Training of Cooperatives and Entrepreneurs in West Java is to use the Network Development Life Cycle method which consists of analysis, design, simulation prototyping, implementation, monitoring, and management. Model network development life cycle as shown on Figure 1

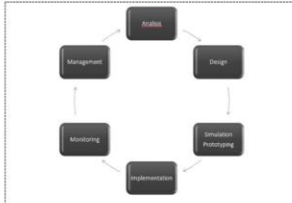


Figure 1 Model Network Development Life Cycle

3. Results and Discussion

3.1. Analysis of the proposed computer network

A computer network is a set of interconnections between two or more autonomous computers connected by a cable or wireless transmission media. Computer networks have become a very important thing to support various activities [2]. The following is a proposed computer network analysis. Analysis of the proposed computer network as shown on Figure 2

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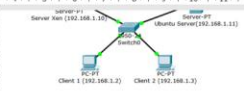


Figure 2 Analysis of the proposed computer network

Based on figure two, there are two servers including the xen server and the Ubuntu server, the xen server is used for a virtual operating system that will run the Ubuntu server as an integrated storage medium.

3.2. Server Price Analysis in Training Center for Cooperatives and Micro, Small and Medium Enterprises (BALATKOP)

The server is a central computer that handles data sets (databases) and provides services to client computers [18]. One of the optimal network supporters is the server [19]. The following is an application server price analysis at the cooperative training center and micro, small and medium enterprises as shown on Table 1

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Table 1. Price of Servers in the Cooperative and Micro Small and Medium Enterprises Training Center

Hardware	Price
mobo intel des 1300	Rp. 800.000
Processor neon 1225 v6	Rp. 3.800.000
RAM 8 giga	Rp. 1.500.000
Hdd 1 tb (sdd)	Rp. 2.168.000
Casing ATX	Rp. 1.425.000
Power Supply ATX	Rp. 660.000

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