Nomor I Vol. 14 April 2009

B. 12

ISSN 0853 - 8638

DEWI AGUSHINTA R. UNIV. GUNADARMA **Jurnal Ilmiah**

Informatika Komputer

if(name='')

ok=false;

errormessage+=

errormessage+=String

if(selection="0")

ok=false;

errormessage+=

errormessage+=S

f(email= "

ok=false

errormessa

rrorme

Redaksi: Lembaga Penelitian Universitas Gunadarma

Susunan Redaksi

Penasehat/Pembina

Prof. Dr. E.S. Margianti, SE., MM. Drs. Agus Sumin, MMSi.

Pemimpin Umum/Penanggung Jawab Dr. Ir. Hotniar Siringoringo, MSc.

Dewan Penyunting

Dr. I Wayan Simri Wicaksana SSi., M.Eng (Ketua)
Prof. Suryadi Harmanto, SSi., MMSi.
Prof. Kokou Yetongnon, PhD
Prof. Michel Pandavoine, PhD
Prof. Dr. Suryo Guritno
Prof. Dr. Ir. Dali S. Naga, MMSi.
Prof. Dr. Sarifuddin Madenda
Dr. Kudang B. Seminar
Dr. rer nat. A. Benny Mutiara
Dr. dr. Johan Harlan
Dr. Ery Prasetyo Wibowo
Dr. Prihandoko, MIT
Lussiana, ETP

Penyunting Pelaksana Bertalya, SKom., DEA Dr. Tb. Maulana Kusuma, SKom., M.EngSc

Mitra Bestari

Prof. Dr. Sebti Foufou (Universite de Bourgogne, France) Richard CHBEIR, PhD. (Universite de Bourgogne, France) Prof. Dr. Ismail Khalil, (Johannes Kepler University of Linz, Austria) Prof Romesh Nagarajah PhD. (Swinburne University of Technology, Australia) Prof. Peter B. Ladkin, PhD. (Bielefeld University, Jerman) Ma Ying-Hua, PhD. (Shanghai Jiao Tong University, Cina) Dr. Hayet Laggoune (Université du Québec en Outaouais, Canada) Prof. Dr. Djati Kerami, (Universitas Indonesia, Indonesia) Prof. Dr. Musa Hubeis, DEA. (Institut Pertanian Bogor, Indonesia) Prof Dr. Ir. Benhard Sitohang (Institut Teknologi Bandung, Indonesia) Prof. Zarli (Universitas Sumatera Utara, Indonesia) Dr. Manora Caldera (Curtin University, Australia) Dr. Yudi Satria (Universitas Indonesia, Indonesia) Dr. M. Syamsun (Institut Pertanian Bogor, Indonesia) Dr. Totok M. Sabar Soegandi, MSc. (Institut Pertanian Bogor, Indonesia) Dr. Ravi A. Salim (Universitas Gunadarma, Indonesia) Lahcen BOUMEDJOUT, Master (University of Quebec in Outaouais, Canada) Arne Pottharst, Dipl. Ing. (Technische Universitat Darmstadt, Germany)

Sekretariat

Trini Saptariani, SKom., MM. Suhartini, SKom., MT.

Alamat Redaksi

Lembaga Penelitian
Universitas Gunadarma

Jl. Margonda Raya 100, Depok 16424 Telp. (021) 78881112 – pes. 455
Email: infokom@gunadarma.ac.id

ISSN: 0853-8638

Penerbit: PT. Quadrata Persada Komunika

KATA PENGANTAR

Segala puji syukur kita panjatkan kehadirat Allah SWT., yang telah memberi kelimpahan bagi umatNya. Kami, dewan redaksi, Jurnal Informatika Komputer khususnya memanjatkan puji syukur kepadaNya karena dengan berkatNyalah jurnal ini dapat terbit.

Jurnal Informatika Komputer Nomor 1, Volume 14 April 2009 ini memuat 8 (delapan) artikel. Analisis pengolahan citra yang menggunakan teknik biometrik seperti ciri wajah dan sidik jari seseorang sangat menarik untuk disimak para pembaca. Selain itu edisi kali ini banyak mengetengahkan teknologi komunikasi data yang diimplementasikan untuk kepentingan masyarakat.

Penelitian mulai dilaksanakan secara terus menerus dalam kehidupan, ditambah dengan ketekunan dan semangat para dosen bidang teknologi informasi di perguruan tinggi, bagi para pembaca yang budiman. khususnya di Universitas Gunadarma, ARELO (1888) AND CIALED Lang New Court and the state of the Court of the Court of the Land of the Court of

menjadikan majalah ini semakin dibutuhkan untuk diterbitkan. Semangat para dosen meneliti dan mempublikasikan hasilnya, terlihat dari semakin banyaknya artikel yang masuk ke meja redaksi.

Kami masih mengharapkan mendapatkan tanggapan yang dapat menyempurnakan penerbitan jurnal ini dari pembaca. Diskusi ataupun saran pembaca pada peneliti akan menjadi unsur penyempurnaan pada penelitian yang dilakukan. Untuk itu, kami tidak bosanbosannya mengajak para pembaca untuk memberikan kritik atau tanggapan yang membangun atas artikel yang dimuat di jurnal ini. Kritik dan tanggapan yang diberikan diharapkan akan semakin menyempurnakan penelitian selanjutnya.

Akhir kata kami ucapkan selamat membaca, semoga apa yang kami berikan ini berguna

English Company Compan

JURNAL ILMIAH INFORMATIKA KOMPUTER

NOMOR 1 VOLUME 14 APRIL 2009

DAFTAR ISI

and the state of t
SIMULASI PENGARUH PROTOCOL 802.11 PADA JARINGAN NIRKABE TERHADAP METODE AKSES KOMUNIKASI DATA Suhartini
The state of the s
PEMETAAN FASILITAS SOSIAL DAN FASILITAS UMUM BERBASIS SISTEM
INFORMASI GEOGRAFIS (Studi Kasus di DKI Jakarta)
Diana Ikasari, Benny Irawan, Esti Setiyaningsih
OTIMIZING MAIL SERVER USING ZIMBRA COLLABORATION SUITE 5.0.2 II OPERATING SYSTEM CENTOS 5.0
Ika Setiowati Suprihatin, Dewi Agushinta R
ARSITEKTUR KEAMANAN DAN PERENCANAAN PENGEMBANGAN BROADBAND WIRELESS ACCESS 3.3 GHz. [Studi Kasus Pada Perumahan TANJUNG MAS RAYA 1
Imam Purwanto
SEGMENTASI KARAKTER MENGGUNAKAN NILAI KECEPATAN DAN PERCEPATAN PADA TEKNIK PENGENALAN TULISAN TANGAN
Nuryuliani, Lulu C. Munggaran, Suryarini Widodo 43
ADAPTABLE FINGERPRINT IMAGE THINNING ALGORITHM FOR HARDWARE IMPLEMENTATION USING FPGA DEVICE
Sunny Arief Sudiro, Michel Paindavoine 52
MEMBANDINGKAN MODEL WATER-FALL DAN SPIRAL PADA RANCANGAN SISTEM INFORMASI PELAYANAN PASIEN
(STUDI KASUS PADA PUSKESMAS PANCORAN MAS DEPOK) Santi Widianti
64
ANALISA BAHASA PEMROGRAMAN GENTEE DENGAN BAHASA C (Studi Kasus PROGRAM APLIKASI N FAKTORIAL)
Tristyanti Yusnitasari, Naeli Umniati, Deni

OTIMIZING MAIL SERVER USING ZIMBRA COLLABORATION SUITE 5.0.2 IN OPERATING SYSTEM CENTOS 5.0

¹Ika Setiowati Suprihatin, ²Dewi Agushinta R

¹ Informatics Department, Industrial Technology Faculty
² Information System Department, Computer Science and Information Technology Faculty
¹ dolphin_buzy@yahoo.com, ² dewiar@staff.gunadarma.ac.id

ABSTRACT

The idea of e-mail brings this world into the revolution in digital information. Today, e-mail is a communication media which is very popular. In order to send and receive e-mail, it needs a server which provide email service. This application usually calls Mail Transfer Agent (MTA). One of MTA that usually used is Zimbra. This research tries to implement and optimize the mail server Zimbra which install in operating system Centos 5.0. Testing of optimization is conducted by setting account in administration and makes a communication with e-mail.

Keyword(s): mail server, MTA, operating system, Zimbra

Subject Description: H.4.Information System Applications | H.4.3. Communications Applications | Electronic Mail

INTRODUCTION

Letter is tool that can be used to communicate since long time ago. The advantage of letter is protecting the personal message. Together with prosperity of technology information, also make the mail technology grow up according to request. The utilization of e-mail starts to move up the traditional letter.

E-mail is one of internet services that are needed in public modern business. Almost big, middle and small company uses it. E-mail has more advantage than fax, telephone and SMS. E-mail is cheaper and faster.

E-mail server is like a post office which has job to receive and send mail into the correct address. Yahoomail.com, hotmail.com, and Gmail.com which grow up now are examples of mail server technology.

Mail Server executes an application used to process mail progress. This application always called Mail Transfer Agent (MTA). Even though the application that runs in another computer which is serviced with server is called Mail Client (MC) [7]. There are some mail servers that are used in internet networking and walking on Operating System Linux/ UNIX. Some of them are Sendmail, Qmail, Postfix and Zimbra. This Zimbra mail server has different advantage and disadvantage.

Zimbra is web based collaboration system which is not just has mail server feature, but also has a lot of prosperity that can be good choice for company which want to implement it. Moreover Zimbra excellent capability is not just in collaborating but also in integrating all features in this system to another system, like Enterprise Resource Planning (ERP), Costumer Relation Management (CRM) or application that built by itself. Zimbra enables to share calendaring, to-do list management based on team work and to manage mailing list all.

For a company mail server is very important to send information fast and arrived in correct address to all employee. Except that all employee can access this e-mail from internet.

The main question is about the level of user friendly, learning curve and utilize the application. There are many approach to consider the level, in the research we will find out the practical method to measure the level of the application.

Suprihatin, Agushinta, Optimizing Mail...

RESEARCH METODOLOGY

10

The approach of the research is based on practical view. For this purpose we will examine the application with some factors in practical from users or operators view. Refer to the result of operators view, the level of application in some parameter of user

friendly, learning curve and utilize can be considered.

RESULT AND DISCUSSION

Step Building and Analysis Design Analysis Design

There are some steps to build mail server.

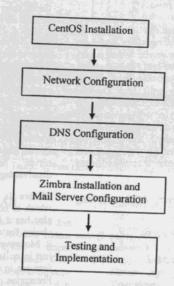


Figure 1. Flowchart Design

Installation and Configuration

Operating System Installation

In building this mail server, CentOS 5.0 operating system is used. This installation process was begun with booting in DVD-ROM, so it must change the bios setting. The purpose is, while system is booting, BIOS would read the DVD-ROM not the harddisk.

CentOS Operating System installation could do in two ways. Graphique mode or Text Mode. It uses text mode to install this OS. First to use text mode write "Linux text" in prompt boot and then enter. In installation process, there are some buttons that can use to such as: navigation button, tab button, space button and enter button.

There are steps in installing the OS:

- Choose language that will use for installation
- 2. Choose the type of keyboard (Choose type "us", click ok)

Choose the partition type
 There are 4 types of partition :

- Remove all partitions on selected drives and create default layout
- b. Remove Linux partitions on selected drives and create default layout

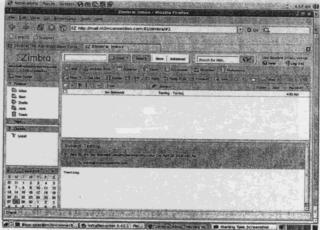


Figure 15. Home Email

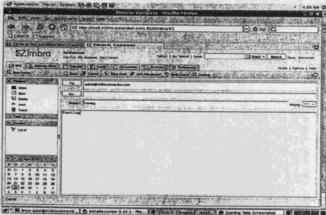


Figure 16. Email Compose

After success with OS installation and configuration, the next step is email server installation, configuration and testing. The general command of operator in this step are:

- the installation is very similar with general application in Linux
- the advantages of installation and configuration are user interface in graphic (web based) and command line, help in package or internet is appropriate for simple task
- the minor disadvantage is lack of addon for the product.

CONCLUSION AND SUGESTION

Building mail server in PT M2M Connection using Zimbra and operating system CentOS could be new communication media in this company. Zimbra is a mail server application which has a lot of advantages, so it is appropriate with the needs of the users. Mail server can work well if Domain Name Server (DNS) can generate the Internet Protocol (IP). User just can access the e-mail that has receive in mail client that is connected to mail server

20

Installation and configuration of OS and Zimbra is relatively easy for administrator who familiar with Unix like operating system. The main advantage is user interface and help file. Need of some add on and performance are very interesting to be next step in the research of email server.

REFERENCES

- [1].Anonim. Maret 2008. Klien-Server. http://id.wikipedia.org/wiki/Klien/server.
- [2].Anonim. 2004. Membangun Server Internet Dengan Linux. Universitas Gunadarma. Depok.
- [3].Dian Ardiyansah. Maret 2008. Teknologi Jaringan Komputer. http://ikc.vip.net.id/

- umum/ardiyansah-jaringan.php; Ilmu Komputer.com.
- [4].Doss, George M. 2000. Tip Sistem Operasi Red Hat. PT Elex Media Komputindo. Jakarta.
- [5].Jhony S. 2002. Jaringan Komputer Berbasis Linux. PT Elex Media Komputindo. Jakarta.
- [6].Onno W.P. 2006. Internet Wireless Dan Hotspot. PT Elex Media Komputindo. Jakarta.
- [7].Rusmanto. 2003. Panduan Membangun Networking Berbasis Linux. PT Dian Rakyat. Jakarta.

Suprihatin, Agushinta, Optimizing Mail...



Universitas Gunadarma

PROGRAM SARJANA (S1)

TEKNIK INDLISTRI

Terakreditasi Peringkat A Sertifikat BAN-PT No. 08969/Ak-X/S1-010/UGBTKI/VIII/2006

SISTEM INFORMASI

Terakreditasi Peringkat A
Sertifikat BAN-PT No. 06414/Ak-VIII-S1-017/UGBSIM/2004

TEKNIK INFORMATIKA

Terakreditasi Peringkat A Sertifikat BAN-PT No. 06415/Ak-VIII-S1-017/UGBTLF/V/2004

PSIKOLOGI

Terakreditasi Peringkat A

Sertifikat BAN-PT No. 07177/Ak-VIII-S1-002/UGBCZI/I/2005

Sertifikat BAN-PT No. 06413/Ak-VIII-S1-017/UGBAKT/V/2004

TEKNIK ARSITEKTUR

Sertifikat BAN-PT No. 07391/Ak-IX-S1-012/UGBTEA/VII/2005

MANAJEMEN

Terakreditasi Peringkat A Serifikat BAN-PT No. 06441/Ak-VII-S1-019/UGBMXX/V/2004

SASTRA INGGRIS

Terakreditasi Peringkat A

Sertifikat BAN-PT No. 07237/Ak-IX-S1-008/UGBSGN/VI/2005

TEKNIK ELEKTRO

Terakreditasi Peringkat A Sertifikat BAN-PT No. 07302/Ak-IX-S1-010/UGBTFE/VII/2005

TEKNIK MESIN

Terakreditasi Peringkat A Sertifikat BAN-PT No. 07303/Ak-IX-S1-010/UGBTRS/VII/2005

SISTEM KOMPUTER

Terakreditasi Peringkat A Sertifikat BAN-PT No. 06220/Ak-VII-S1-007/UGBSIK/III/2004

PROGRAM DIPLOMA TIGA (D3)

TEKNIK KOMPUTER

Terakreditasi Peringkat A Sertifikat BAN-PT No. 00488/Ak-VI/DpI-III-003/UGBTOK/VI/2006

MANAJEMEN INFORMATIKA

Terakreditasi Peringkat A Sertifikat BAN-PT No. 00103/Ak-IV/DpI-III-014/UGBMEI/XII/2004

AKUNTANSI KOMPUTER

Terakreditasi Peringkat A SK BAN-PT No. 017/Ak-VI/Dpi-III/XII/2006

MANAJEMEN KEUANGAN

Terakreditasi Peringkat A Sertifikat BAN-PT No. 00500/Ak-VI/DpI-III-002/UGBMHK/V/2006

MANAJEMEN PEMASARAN

Terakreditasi Peringkat A SK BAN-PT No. 017/Ak-VI/DpI-III/XII/2006

Ijin Badan PPSDM Dep Kes RI No. HK.03.2.4.1.01683 Ijin Dikti No. 4794/D/T/2006

PROGRAM MAGISTER (S2)

Terakreditasi Peringkat B Sertifikat BAN-PT No. 00463/Ak-III/S2-079/UGBMSI/VII/2004

Terakreditasi Peringkat A Sertifikat BAN-PT No. 001/BAN-P1/Ak-V/S2/I/2007

TEKNIK ELEKTRO

Terakreditasi Peringkat B Sertifikat BAN-PT No.: 00517/Ak-V/S2-003/UGBTEL/VI/2006

Terakreditasi Peringkat B Sertifikat BAN-PT No. 006/BAN-PT/Ak-IV/S2/VI/2005

SASTRA INGGRIS PENERJEMAHAN

Terakreditasi Peringkat B Sertifikat BAN-PT No. 00542/Ak-IV/S2-008/UGBSAS/VII/2005

Informasi Lebih Lanjut Hubungi : Edi (0812 935 0533) Yeni (0815 140 47350)

PROGRAM DOKTOR (S3)

II MU EKONOMI Terakreditasi Peringkat B SK BAN-PT No.006/BAN-PT/Ak-V/S3/VII/2006 Informasi Lebih Lanjut Hubungi Rina (0815 140 47380) Juga Menerima Mahasiswa Baru Program Diploma Tiga (D3) Komunikasi

AKADEMI KOMUNIKASI MEDIA RADIO TELEVISI DAN PERIKLANAN (AkommRTVI) GLOBALMEDIA Terakreditasi Peringkat B Sertifikat BAN-PT No.00160/Ak-DMI-002/DE5LM/V/2002 Hubungi Emil (0812 816 3235)

KERJASAMA INTERNASIONAL UNIVERSITAS GUNADARMA DENGAN UNIVERSITE DE BOURGOGNE (UB) Perancis diantaranya:

Kerjasama Penyelenggaraan Program 'fast track' Sarjana Magister (SARMAG)
Program cepat terpadu mencapai gelar magister
Sistem Informasi
(Terakreditasi BAN-PT)

(Terakreditasi BAN-PT) Sertifikat No. 00463/Ak-III/S2-079/UGBMSI/VII/2004 (Terakreditasi BAN-PT Sertifikat Nc.00610/Ak-V/S2-008/UGBBMTS/S2/VIII/2008

Dual Program entaria program Doldor (S3) Telchologi Informasi US • Terakreditasi BAN-PT SK No. 007/BAN-PT/Ak-V/S3/VIII/2006) dengan Universite de Bourgogne (UB) Perancis

Hubungi: REMI (0815 911 6623)

Setiap Hari Kerja, Pukul 09.00- 19.00 WIB di Kampus UG

Jl. Salemba Raya No. 53, Jakarta 10440

Jl. Margonda Raya No. 100 Pondok Cina, Depok 16424

Jl. KH. Noer Ali, Kalimalang

Informasi Lebih Lanjut Cali Center: 021-78881144 Home page: http://www.guns E-mail: ppmb@gunadarma.ac

