

LAPORAN KEGIATAN

WORKSHOP JASATIK "5 IT INFRASTRUCTURE MONITORING TRENDS"



Disusun oleh:
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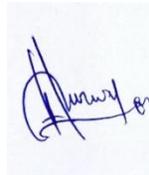
FAKULTAS TEKNOLOGI INFORMASI
UNIVERSITAS BUDI LUHUR
GASAL 2023/2024

HALAMAN PENGESAHAN

- 1 Judul Seminar : Workshop JasaTIK "5 IT Infrastructure Monitoring Trends"
- 2 Bidang Ilmu : Ilmu Pengetahuan dan Teknologi
- 3 Peserta :
 - a. Nama Lengkap : Nurwati, M.Kom
 - b. Jenis Kelamin : Perempuan
 - c. NIP/NIDN : 030581 / 0315057803
 - d. Jabatan Fungsional : Lektor
 - e. Jabatan Struktural : Dosen Tetap
 - f. Program Studi : Sistem Informasi
4. Tanggal Pelaksanaan : Kamis, 25 Januari 2024
- 5 Lokasi Kegiatan : Online
- 6 Lama Kegiatan : 1 (satu) hari
- 7 Biaya yang diperlukan : -

Jakarta, Januari 2024

Dosen Partisipan,



(Nurwati, M.Kom)

NIP. 030581

KATA PENGANTAR

Dengan mengucapkan syukur Alhamdulillah, penulisan laporan Workshop JasaTIK "5 IT Infrastructure Monitoring Trends" semester Gasal 2023/2024 yang berlangsung selama satu hari selesai dikerjakan.

Laporan ini disusun sebagai bentuk tanggung jawab saya sebagai peserta kepada Fakultas Teknologi Informasi Universitas Budi Luhur. Mudah-mudahan bermanfaat bagi yang memerlukan. Terima kasih kepada semua pihak yang telah memberikan kontribusi dalam penyusunan laporan ini. Apabila terdapat kekurangan dan kelemahan dalam penyusunan laporan ini, saya menerima saran dan kritik guna penyempurnaan lebih lanjut.

Jakarta, Januari 2024

Penulis

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I. KEGIATAN

1.1. Nama Kegiatan

Workshop JasaTIK "5 IT Infrastructure Monitoring Trends" semester Gasal 2023/2024.

1.2. Latar Belakang

Tridharma Perguruan Tinggi yang selanjutnya disebut Tridharma adalah kewajiban Perguruan Tinggi untuk menyelenggarakan Pendidikan, penelitian, dan pengabdian kepada masyarakat (UU No. 12 Tahun 2012, Pasal 1 Ayat 9). Dosen sebagai anggota Sivitas Akademika memiliki tugas mentransformasikan Ilmu Pengetahuan dan/atau Teknologi yang dikuasainya kepada Mahasiswa dengan mewujudkan suasana belajar dan pembelajaran sehingga Mahasiswa aktif mengembangkan potensinya.

Dosen sebagai ilmuwan memiliki tugas mengembangkan suatu cabang Ilmu Pengetahuan dan/atau Teknologi melalui penalaran dan penelitian ilmiah serta menyebarkanluaskannya.

Workshop ini memberikan manfaat yang sangat besar bagi dosen-dosen terutama dalam mengembangkan ilmunya yang tentunya akan membantu pengembangan Fakultas.

1.3. Tujuan Kegiatan

Workshop JasaTIK "5 IT Infrastructure Monitoring Trends" bertujuan untuk memperkenalkan aplikasi Nagios. *Workshop* diadakan pada hari Kamis 25 Januari 2024 secara *online*.

1.4. Pembicara Seminar

Sebagai pembuka acara dan moderator Bapak Fanky Christian sebagai Direktur PT Daya Cipta Mandiri Solusi, perusahaan IT yang berfokus kepada Data Center, Cloud & Monitoring System. Saat ini aktif juga sebagai Ketua DPD DKI Asosiasi Pengusaha TIK Nasional (APTIKNAS), Wakil Ketua Umum Asosiasi Sistem Integrator & Sekuriti Indonesia (ASISINDO). Narasumber Reza Hafids sebagai Senior Engineering PT. Daya Cipta Mandiri Monitoring.

1.5. Pelaksanaan Seminar

a. Pembukaan

Pelaksanaan seminar hari Kamis, 25 Januari 2024.

b. Pemaparan materi *Sharing*

Berikut materi yang disampaikan Reza Hafids, 5 IT *Infrastructure Monitoring Trends* mengantisipasi perubahan kondisi IT yang cukup signifikan ke lingkungan *Hybrid*, karena meningkatnya permintaan untuk analisis dan pelaporan tingkat lanjut. Dibutuhkan pengkonsolidasian dalam hal pemantauan infrastruktur TI dalam sebuah cara mendapatkan solusi. Kemudian diperlukan pengecekan status aplikasi menggunakan IT monitoring dan penekanan lebih besar pada keamanan siber.

LIVE YouTube



5 IT Infrastructure Monitoring Trends




LIVE YouTube



5 IT Infrastructure Monitoring Trends




Importance of IT infrastructure monitoring

- 01 Predictive analytics and machine learning
- 02 Cloud-based Monitoring Solutions
- 03 Dashboards and visualization of monitoring data
- 04 AI-powered monitoring and analytics
- 05 Security Monitoring



www.tetrain.com



Zoom Meeting | LIVE | YouTube | You are viewing Reza Hafids' screen | View Options | Sign In | View

5 IT Infrastructure Monitoring Trends

- Perubahan kondisi yang cukup signifikan ke Lingkungan Hybrid
- Meningkatnya Permintaan untuk Analisis dan Pelaporan Tingkat Lanjut
- pengkonsolidasian dalam hal Pemantauan Infrastruktur TI dalam sebuah solusi
- Pengecekan Status Aplikasi Menggunakan IT Monitoring
- Penekanan Lebih Besar pada Keamanan Siber.

Nagios

Unmute | Start Video | Participants (60) | Chat | Share Screen | Record | Show Captions | Reactions | Apps | Whiteboards | Notes | Leave

Participant list: Nurwati, Reza Hafids, EVENTCERDAS, Nurma, Fanky Christian

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Agenda

- 01 Introduction Nagios
- 02 All Product Nagios
- 03 Feature Nagios XI
- 04 Demo Nagios XI

Nagios

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Participant list: Nurwati, Reza Hafids, EVENTCERDAS, Nurma, Fanky Christian

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System Requirement

Make sure the server you install Nagios XI on meets the requirements below.

Server OS (only 64-bit supported):

- RHEL/CentOS/Oracle Linux 7.x
 - Oracle Linux 7 requires the Optional repository to be enabled, further details are located here: [Enabling Oracle Linux Optional Repository](#)
 - RHEL/Oracle Linux 8.x/9.x
 - RHEL requires the Optional software channel to be enabled, further details are located here: [Enabling RHEL Optional Software Channel](#)
 - RHEL 8/9 requires CodeReady Builder to be enabled.
- CentOS Stream 8/9
- Debian 10.x/11.x
- Ubuntu 18/20/22

Minimum system specs:

- Single Core Processor
- 2 GB RAM
- 40 GB HD

Minimum system specs:

- 1 GHz Processor
- 1 GB RAM
- 8 GB HD
- PHP Version: 5.4-8.2 (XI 5.10+)

Recommended system specs:

- 2+ GHz Processor
- 4 GB RAM
- 40 GB HD
- RAID 5 Drive Configuration

Offloaded Database Requirements (Optional):

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Nurwati

Nurwati

Reza Hafids

EVENTCERDAS

Nurma

Fanky Christian

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Nagios XI (Home Dashboard)

192.168.10.187/nagiosxi/index.php?#

Nagios XI Home Views Dashboards Reports Configure Tools Help Admin

Upgrade to a licensed version of Nagios XI and get support and upgrade benefits.

Quick View

- Home Dashboard
- Tactical Overview
- Blueprint
- Operations Center
- Operations Screen
- Open Service Problems
- Open Host Problems
- All Service Problems
- All Host Problems
- Network Outages

Details

- Service Status
- Host Status
- Hostgroup Summary
- Hostgroup Overview
- Hostgroup Grid
- Servicegroup Summary
- Servicegroup Overview
- Servicegroup Grid
- BPI
- Metrics
- Performance Graphs
- Graph Explorer

Maps

- World Map
- Bimap
- Hypermap
- Minimap
- Nagvis

Home Dashboard

Getting Started Guide

Common Tasks:

- change your account settings
- Change your account password and general preferences.
- change your notifications settings
- Change how and when you receive alert notifications.
- Configure your monitoring setup
- Add or modify items to be monitored with easy-to-use wizards.

Getting Started:

- Learn about XI
- Learn more about XI and its capabilities.
- Signup for XI news
- Stay informed on the latest updates and happenings for XI.

Administrative Tasks

Task

Initial Setup Tasks:

Host Status Summary

Up	Down	Unreachable	Pending
12	0	0	0
Unhandled	Problems	All	
1	1	0	

Last updated: 2024-03-25 09:07:59

Service Status Summary

OK	Warning	Unknown	Critical	Pending
125	7	2	0	0
Unhandled	Problems	All		
12	12	32	0	0

Last updated: 2024-03-25 09:08:09

We're Here To Help!

Our knowledgeable techs are happy to help you with any questions or problems you may have getting Nagios up and running.

- Support Forum / Customer Support Forum
- Help Resources
- Customer Ticket Support Centre
- Customer Phone Support: +1 651-204-9102 Ext. 4

Start Monitoring

Run a Config Wizard

Run Auto-Discovery

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Nurwati

Nurwati

Reza Hafids

EVENTCERDAS

Nurma

Fanky Christian

Nagios XI

Nagios BPI (Business Process Intelligence) sebagai visual business process berdasarkan group hosts and services secara bersama-sama.

Business Process Intelligence

All Priorities | High Priority | Medium Priority | Low Priority | Hostgroups | Servicegroups | Create New BPI Group | Config Management | Settings | Do

Last Update: Thu Jan 25 2024 09:16:05 GMT+0700 (Waktu Indonesia Barat)
 @ - Essential group members

OK	▼ Ping All	Group health is 100% with 0 problem(s).
OK	192.168.10.21 Ping	OK - 192.168.10.21 rta 0.134ms lost 0%
OK	gateway Ping	OK - 192.168.10.1 rta 0.295ms lost 0%
OK	localhost PING	PING OK - Packet loss = 0%, RTA = 0.09 ms
OK	site.dayaciptamandiri.com Ping	OK - site.dayaciptamandiri.com rta 43.269ms lost 20%

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Views

Memberikan akses cepat ke halaman Nagios XI dan situs web eksternal. M sering digunakan oleh admin yang ingin menampilkan informasi penting p monitor di network operations centers (NOC) atau lokasi public.

Nagios XI

Home | Views | Dashboards | Reports | Configs | Tools | Help | Admin

Tactical Overview

Network Outages | Network Health

0 Outages | Host Health | Service Health

No Blocking Outages | Last updated: 2024-01-25 09:27:09

Hosts

1 Down	0 Unreachable	4 Up	0 Pending
1 Active		4 Active	

Services

3 Critical	7 Warning	2 Unknown	79 OK	0 Pending
3 Active	7 Active	2 Active	79 Active	

Features

Flap Detection	Notifications	Event Handlers	Active Checks	Passive Checks
ENABLED	ENABLED	ENABLED	ENABLED	ENABLED
All Services Enabled				
Service Flapping	All Hosts Enabled	All Hosts Enabled	All Hosts Enabled	All Hosts Enabled
ENABLED	ENABLED	ENABLED	ENABLED	ENABLED

Unmute | Start Video | Participants (68) | Chat | Share Screen | Record | Show Captions | Reactions | Apps | Whiteboards | Notes | Leave

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Dashboard

Available Dashlets

The following dashlets can be added to any one or more of your dashboards. Need a custom dashlet created for your organization? No problem! Contact us for pricing information.

Alert Cloud

Displays a dynamic cloud of alerts.

Author: Nagios Enterprises, LLC
Website: <http://www.nagios.com>
Dashlet Copyright © 2011-2014 Nagios Enterprises. All rights reserved.

BitMap

Displays a grid-like view of host and service status.

Author: Nagios Enterprises, LLC
Website: <http://www.nagios.com>
Dashlet Copyright © 2011-2014 Nagios Enterprises. All rights reserved.

Hypermap

Displays a dynamic network status map.

Author: Nagios Enterprises, LLC
Website: <http://www.nagios.com>
Dashlet Copyright © 2011-2014 Nagios Enterprises. All rights reserved.

Latest Alerts

Displays the latest alerts.

Author: Nagios Enterprises, LLC
Website: <http://www.nagios.com>
Dashlet Copyright © 2011-2014 Nagios Enterprises. All rights reserved.

Metrics Overview

Displays an overview metrics such as disk, CPU, and memory usage.

Author: Nagios Enterprises, LLC
Website: <http://www.nagios.com>
Dashlet Copyright © 2011 Nagios Enterprises. All rights reserved.

Minimap

Displays a grid-like view of host and service status.

Author: Nagios Enterprises, LLC
Website: <http://www.nagios.com>
Dashlet Copyright © 2010-2010 Nagios Enterprises. All rights reserved.

Nagios XI News Feed

Shows the latest tutorials, videos, updates, and news on Nagios XI.

Author: Nagios Enterprises, LLC
Website: <http://www.nagios.com>
Dashlet Copyright © 2009-2010 Nagios Enterprises. All rights reserved.

Getting Started Guide

Displays helpful information on getting started with Nagios XI.

Author: Nagios Enterprises, LLC
Website: <http://www.nagios.com>
Dashlet Copyright © 2009-2010 Nagios Enterprises. All rights reserved.

Administrative Tasks

Displays tasks that an administrator should take to setup and maintain the Nagios XI installation.

Author: Nagios Enterprises, LLC
Website: <http://www.nagios.com>
Dashlet Copyright © 2009-2010 Nagios Enterprises. All rights reserved.

Monitoring Engine Event Queue

Displays real-time status of the monitoring engine event queue.

Author: Nagios Enterprises, LLC
Website: <http://www.nagios.com>
Dashlet Copyright © 2009-2010 Nagios Enterprises. All rights reserved.

Core Component Status

Server Stats

Monitoring Engine Stats

Monitoring Engine Performance

Monitoring Engine Process

Zoom Meeting | Unmute | Start Video | Participants (67) | Chat | Share Screen | Record | Show Captions | Reactions | Apps | Whiteboards | Notes | Leave

Zoom Meeting | LIVE | YouTube | You are viewing Reza Hafid's screen | View Options | Sign In | View

Configure

Core Config Manager

Nagios XI | Home | Views | Dashboards | Reports | Configure | Tools | Help | Admin

Core Config Manager

Quick Tools

- Apply Configuration
- Configuration Snapshots
- Monitoring Nagios
- Configuration Wizards

Monitoring

- Hosts
- Services
- Host Groups
- Service Groups

Alerting

- Contacts
- Contact Groups
- Time Periods
- Host Escalations
- Service Escalations

Templates

- Commands
- Advanced
- Tools
- CCR Admin

CCR Object Summary

5 Hosts	2 Host Groups
91 Services	0 Service Groups
1 Contact	2 Contact Groups
141 Commands	0 Host Escalations
0 Service Escalations	

Recent Snapshots

Date	Snapshot Result	Actions
2024-01-25 00:17:02	Config Ok	
2024-01-24 00:18:03	Config Ok	
2024-01-23 18:02:58	Config Ok	
2024-01-23 17:08:07	Config Ok	
2024-01-23 13:23:28	Config Ok	
2024-01-23 13:20:16	Config Ok	
2024-01-23 13:18:43	Config Ok	
2024-01-23 13:18:43	Config Ok	
2024-01-23 00:42:17	Config Ok	

Recently Changed Hosts

Host Name	Config Name
192.168.18.21	
192.168.18.2	
www.rezastamendri.com	
gateway	
localhost	
Service Name	Config Name
Ping	192.168.18.21
CPU Usage	192.168.18.21
Physical Memory Usage	192.168.18.21
Virtual Memory Usage	192.168.18.21
Drive C: Disk Usage	192.168.18.21

Zoom Meeting | Unmute | Start Video | Participants (69) | Chat | Share Screen | Record | Show Captions | Reactions | Apps | Whiteboards | Notes | Leave

c. Penutup

Dengan adanya *workshop* JasaTIK "5 IT *Infrastructure Monitoring Trends*" ini peserta pelatihan mendapatkan ilmu yang bermanfaat dan memotivasi ide-ide untuk penelitian berikutnya.



Sertifikat Kepesertaan

Diberikan Kepada

Nurwati

Atas kesuksesannya menyelesaikan kelas

5 IT Infrastructure Monitoring Trends

Fanky Christian
Sekjen APTIKNAS

Event Cerdas
25 Jan 2024

Soegiharto Santoso
Chairman APTIKNAS