

## LAPORAN KEGIATAN

### WORKSHOP JASATIK "5 IT INFRASTRUCTURE MONITORING TRENDS"



Disusun oleh:  
Nurwati, M.Kom

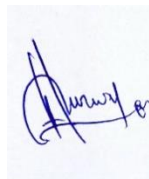
FAKULTAS TEKNOLOGI INFORMASI  
UNIVERSITAS BUDI LUHUR  
GASAL 2023/2024

## 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 mengucap 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

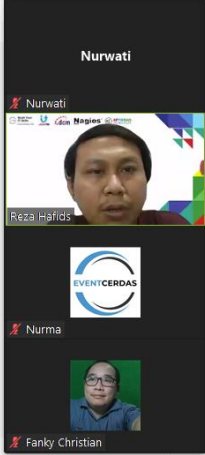



**Importance of IT infrastructure monitoring**

- 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



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# 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

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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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# 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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# 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
- Blitmap
- 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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**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.dayacptamandiri.com Ping | OK - site.dayacptamandiri.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

Rotation is stopped

**Tactical Overview**

View Tools: Start Rotation, New View, Manage My Views

My Views: Tactical Overview, Open Problems, Host Detail, Service Detail, Hostgroup Overview

**Network Outages**

- 0 Outages
- No Blocking Outages

**Network Health**

- Host Health: ██████████
- Service Health: ██████████

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 | All Services Enabled | All Services Enabled | All Services Enabled | All Services Enabled |
| Service Flapping     | All Hosts Enabled    | All Hosts Enabled    | All Hosts Enabled    | All Hosts Enabled    |
| ENABLED              | ENABLED              | ENABLED              | ENABLED              | ENABLED              |

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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   | BitMap  | Hypermap  | Latest Alerts   | Metrics Overview  |
|---|---|---|---|---|
| Displays a dynamic cloud of alerts.   | Displays a grid-like view of host and service status.   | Displays a dynamic network status map.  | Displays the latest alerts.   | Displays an overview metrics such as disk, CPU, and memory usage.   |
| Author: Nagios Enterprises, LLC<br>Website: <a href="http://www.nagios.com">http://www.nagios.com</a><br>Dashlet Copyright © 2011-2014 Nagios Enterprises. All rights reserved. | Author: Nagios Enterprises, LLC<br>Website: <a href="http://www.nagios.com">http://www.nagios.com</a><br>Dashlet Copyright © 2011-2014 Nagios Enterprises. All rights reserved. | Author: Nagios Enterprises, LLC<br>Website: <a href="http://www.nagios.com">http://www.nagios.com</a><br>Dashlet Copyright © 2011-2014 Nagios Enterprises. All rights reserved. | Author: Nagios Enterprises, LLC<br>Website: <a href="http://www.nagios.com">http://www.nagios.com</a><br>Dashlet Copyright © 2011-2014 Nagios Enterprises. All rights reserved. | Author: Nagios Enterprises, LLC<br>Website: <a href="http://www.nagios.com">http://www.nagios.com</a><br>Dashlet Copyright © 2011-2014 Nagios Enterprises. All rights reserved. |
| Minimap   | Nagios XI News Feed   | Getting Started Guide   | Administrative Tasks  | Monitoring Engine Event Queue   |
| Displays a grid-like view of host and service status.   | Shows the latest commands, tickets, tickets, and news on Nagios XI.   | Displays helpful information on getting started with Nagios XI.   | Displays tasks that an administrator should take to setup and maintain the Nagios XI installation.  | Displays machine status of the monitoring engine event queue.   |
| Author: Nagios Enterprises, LLC<br>Website: <a href="http://www.nagios.com">http://www.nagios.com</a><br>Dashlet Copyright © 2011-2014 Nagios Enterprises. All rights reserved. | Author: Nagios Enterprises, LLC<br>Website: <a href="http://www.nagios.com">http://www.nagios.com</a><br>Dashlet Copyright © 2009-2012 Nagios Enterprises. All rights reserved. | Author: Nagios Enterprises, LLC<br>Website: <a href="http://www.nagios.com">http://www.nagios.com</a><br>Dashlet Copyright © 2009-2012 Nagios Enterprises. All rights reserved. | Author: Nagios Enterprises, LLC<br>Website: <a href="http://www.nagios.com">http://www.nagios.com</a><br>Dashlet Copyright © 2009-2012 Nagios Enterprises. All rights reserved. | Author: Nagios Enterprises, LLC<br>Website: <a href="http://www.nagios.com">http://www.nagios.com</a><br>Dashlet Copyright © 2009-2012 Nagios Enterprises. All rights reserved. |
| Core Component Status   | Server Stats  | Monitoring Engine Stats   | Monitoring Engine Performance   | Monitoring Engine Process   |

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# 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          | 192.168.18.21         |
| 192.168.18.2           | 192.168.18.2          |
| www.flyscopemendi.com  | www.flyscopemendi.com |
| gateway                | gateway               |
| localhost              | 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         |

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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