RONALD DIMAS YUWANDIKA

SENIOR INFRASTRUCTURE ENGINEER

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ABOUT ME

Hello, I am a seasoned Senior Infrastructure Engineer with a knack for rapid learning and a passion for collaboration. My broad spectrum of knowledge is complemented by my expertise in managing large-scale infrastructure environments. I thrive in dynamic settings and am always ready to leverage my skills to tackle new challenges.

EXPERTISE

- **Cloud Computing**: GCP, AWS, Alibaba Cloud
- **Monitoring Tools**: Grafana, ELK, Prometheus , Alertmanager, Datadog, Newrelic, Loki
- **Database**: MySQL, Elasticsearch, Redis, KeyDB, MongoDB, PostgreSQL
- **Container Orchestrator**: Kubernetes, Docker Swarm
- **Programming Language**: bash, go, python
- **Other**: Nginx, git, percona-toolkit, pg-osc, vault, ansible, OWASP, Confluence, Jira, pritunl, openvpn, github actions, gitlab-ci, azure devops, jenkins

EDUCATION

Telkom School Malang

Rekayasa Perangkat Lunak

2012 - 2015

ORGANIZATION & VOLUENTEERING

GDG Organizer

Google Developers Group Cloud Surabaya

2020 - Present

EXPERIENCE

Senior Infrastructure Engineer   Nov 2021 - Present

Ruangguru

Responsibilities and Achievements:

Database Monitoring and Alerting System Setup

- Implemented a robust database monitoring and alerting system using PMM, Loki, and AlertManager.
- This system has significantly aided the Engineering team in preventing system outages, enabling easier capacity planning, facilitating faster recovery during downtime, and reducing the number of slow queries.

Elasticsearch Version Upgrade

- Planned and executed a zero-downtime Elasticsearch version upgrade.
- This upgrade ensured continuous service availability during the upgrade process and improved overall system performance.

HONORS & AWARDS

CHIEF Awards Awardee
Ruangguru
One of   Apr 2023

Timmy of the Month Awardee
IDN Media
One of   Apr 2020

Alibaba Clouder Cup Winner
Alibaba Cloud Academy
Top 5   Mar 2019

Industrial Games XXIII

Universitas Surabaya
2nd Place   Aug 2015

Infrastructure Resource Optimization

- Led the planning and execution of Infrastructure cost-optimization involving a stack of Redis, MySQL, Elasticsearch, PostgreSQL, GKE, GCS, GCE, GCP Load Balancer, and CockroachDB.
- Provided guidance to peers throughout the process, ensuring knowledge transfer and skill development within the team.
- This initiative resulted in significant cost savings and improved system efficiency.

Senior Site Reliability Engineer   May 2021 - Nov 2021

LinkAja

Responsibilities and Achievements:

Kubernetes Migration Project

- Played a pivotal role in a Kubernetes Migration project, where I provided guidance and created comprehensive documentation to impart basic knowledge of Kubernetes to my team members. This facilitated a smooth transition and empowered my team with the necessary skills for future Kubernetes-related tasks.

Grafana Synthetic Monitoring Setup

- Set up Grafana Synthetic Monitoring, a tool that has significantly assisted my division in identifying root causes during service outages. This proactive approach has improved our response time and service reliability.

Logrotate Automation with Ansible

- Developed an Ansible playbook to automate the setup of logrotate across all virtual machines. This automation has streamlined operations, reduced manual errors, and enhanced system efficiency.

Rundeck Automation Tools Maintenance and Development

- Responsible for maintaining and developing automation tools on Rundeck to assist the product team. This ongoing task has improved team productivity and has made routine tasks more efficient.

Infrastructure Engineer   Sep 2019 - May 2021

IDN Media

Responsibilities and Achievements:

Database Monitoring System Setup

- Implemented a robust database monitoring system using PMM and Loki. This system has significantly aided the Engineering team in preventing system outages, enabling easier capacity planning, facilitating faster recovery during downtime, and reducing the number of slow queries.

Github Migration and Azure DevOpsCI/CD Pipeline Development

- Planned and executed a seamless Github Migration while concurrently developing a CI/CD pipeline using Azure DevOps for the Engineering Team. This initiative streamlined the development process and improved the team's productivity.

IT Infrastructure Revamp

- Led the transformation of the IT infrastructure from virtual machines to Docker Swarm, significantly improving the speed of delivery and scalability. This revamp ensured that our infrastructure could effectively meet the growing demands of the business.

System Performance Tuning

- Conducted tuning of PHP, NGINX, Redis, and MySQL to improve reliability and performance. This optimization resulted in a substantial increase in the request per second (rps) rate from 20k to 80k using the same hardware specifications.

Docker Swarm and Grafana Training

- Provided comprehensive Docker Swarm and Grafana training to the entire engineering team. This training enhanced the team's technical skills, enabling them to better utilize these tools for improved

Infrastructure Monitoring and Alerting System Setup

- Developed an advanced infrastructure monitoring and alerting system using Grafana, Prometheus, and Elasticsearch APM. This system has played a crucial role in maintaining the health and performance of our infrastructure, enabling proactive issue detection and resolution.