

Fady Mohamed

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SUMMARY

System Engineer with strong skills in system administration and monitoring, specializing in zabbix and infrastructure management. Experienced in real-time performance monitoring, alert setup, and resolving network and storage issues to ensure seamless operations. Proficient in configuring servers, managing user access, and implementing backup and recovery strategies. Skilled in log analysis from network devices and middleware for proactive issue detection. Committed to optimizing system reliability and performance in complex IT environments.

EXPERIENCE

- **Aman Holding subsidiary of Raya** Maadi-Cairo
System Engineer Oct 2023 - Present
 - **Red Hat Enterprise Linux Administration** Installed and configured Red Hat Enterprise Linux 7 infrastructure, managing user accounts, groups, and file system permissions (RHCSA certified). Focused on system security, organization, and optimized performance.
 - **Web Server, NGINX, and Database Management** Installed and configured Apache and NGINX for optimized web server performance and availability. Set up virtual hosts, managed MySQL databases, executed SQL queries, and performed disk management tasks, including disk usage analysis and storage optimization on Red Hat-based systems.
 - **Networking and Service Monitoring** Configured essential network services, including HTTP/HTTPS, FTP, NFS, SSH, and NTP, to ensure secure and reliable connectivity. Utilized Zabbix for infrastructure health monitoring, efficient alert management, and proactive incident response.
 - **System Troubleshooting and Optimization** Conducted detailed troubleshooting of network and server issues to maintain seamless connectivity. Performed disk usage analysis, optimized storage, and conducted log reviews to proactively address and resolve potential issues.
- **Reserve Of at the Egyptian Army** Oct 2019 – May 2022
Maintenance Engineer for Missile Control Station
 - **Rocket Control Unit Monitoring and Maintenance** Monitored rocket control unit status, managed defect rectifications, and ensured airworthiness by scheduling maintenance work in compliance with regulatory requirements.
 - **Strategic Maintenance Planning** Planned and coordinated control unit maintenance to align with organizational goals, expectations, and regulatory standards, ensuring timely and effective execution.
 - **Network Troubleshooting and Issue Resolution** Diagnosed and resolved network-related hardware and software issues, ensuring seamless network functionality and reducing potential downtimes.

PROJECTS

- **Centralized Logging and Monitoring System with zabbix Stack** Built a centralized log management solution with the zabbix Stack to collect, index, and visualize logs from multiple servers. Set up real-time alerts and custom dashboards, providing insights into system performance and security events.
- **CI/CD Pipeline Setup with Jenkins and Kubernetes** Implemented a CI/CD pipeline using Jenkins to automate the build, test, and deployment process for applications on a Kubernetes cluster, enabling continuous delivery with rollback capabilities. This project involved Dockerization and Kubernetes deployment automation.
- **Network and Server Monitoring with Zabbix** Deployed a Zabbix monitoring solution to track network devices, server health, and application metrics, setting up alerts and real-time dashboards to ensure proactive response to performance issues and outages.
- **NGINX Web Application with MySQL Database** Configured an NGINX server as a reverse proxy for a web application backed by a MySQL database, implementing SSL with Let's Encrypt and setting up secure access controls, database backups, and NGINX logging. This project highlighted web server, database, and security configuration skills.

- Give Your Application Auto-Deploy Superpowers Deploying a Containerized Web Application
- **Deploying a Containerized Web Application** Containerized a web application using Docker, orchestrated with Docker Compose, and deployed on a high-availability ECS cluster. Configured Grafana to monitor container health, network, and resource usage, maintaining 99% uptime and ensuring proactive response to any service interruptions.
- **LAMP and LEMP Stacks** Set up both LAMP (Linux, Apache, MySQL, PHP) and LEMP (Linux, NGINX, MySQL, PHP) stacks for a web application, including SSL certificates, security hardening, and performance tuning. Implemented monitoring with UptimeRobot to maintain 99% availability and tracked resource usage across both configurations.

CERTIFICATIONS & COURSES

- **Red Hat Certified System Administrator**
- **Associate Cloud Engineer Certification**
- **Advanced Cloud Devops from udacity**
- **DevOps Beginners to Advanced from udemy**
- **CCNA - MCSA**

EDUCATION

- **PHI, Pyramids Higher Institute** Egypt
Bachelor of Communication and Electronics Engineering *Sep 2014 – May 2019*

SKILLS

- | | | |
|-----------|--------------|---------------------------|
| ◦ RHSCA | ◦ NGINX | ◦ GCP |
| ◦ Zabbix | ◦ Jenkins | ◦ Prometheus |
| ◦ Git | ◦ Kubernetes | ◦ Grafana |
| ◦ Ansible | ◦ Docker | ◦ Redis |
| ◦ GCP CLI | ◦ Loki | ◦ Network Troubleshooting |

SOFT SKILLS

- | | | |
|----------------------|-----------------------|-----------------------|
| ◦ Problem-Solving | ◦ Time Management | ◦ Critical Thinking |
| ◦ Communication | ◦ Adaptability | ◦ Conflict Resolution |
| ◦ Team Collaboration | ◦ Attention to Detail | |

LANGUAGES

- Arabic (Native)
- English (Excellent)