Mamadou Diallo

Linux System Administrator

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Analytical and detail-oriented professional with proven success in administering complex systems, optimizing performance, and automating processes, while enhancing security, scalability, and reliability across diverse environments. Demonstrated expertise in managing and maintaining Linux systems, administering Red Hat environments, and deploying virtual and physical servers to improve infrastructure efficiency. Adept at automating tasks using Bash scripting and Ansible, optimizing system performance, and streamlining application provisioning to reduce downtime. Known for troubleshooting critical system issues, ensuring seamless integration with LDAP/Active Directory, and enhancing operational security by implementing backup and recovery protocols. Bilingual communicator with proficiency in English and French languages; proficient in managing file systems with LVM, NAS, and SAN, analyzing system performance, and reinforcing infrastructure scalability through rigorous testing and monitoring.

Areas of Expertise

- Linux System Administration
- System Performance Optimization
- Server Provisioning & Deployment
- Ansible Configuration Management

- Infrastructure Monitoring
- Red Hat Enterprise Linux (RHEL)
- Backup & Recovery Management
- LDAP/Active Directory Integration

- Virtualization Containerization
- Network Configuration
- File System Management
- Bash Scripting & Automation

Professional Experience

Africa Deux Roues – Dakar, Senegal   Feb 2022 to January 2023

Linux Administrator

Manage and maintain Linux environments, including RHEL, to ensure smooth operation of applications and infrastructure. Configure, deploy, and optimize virtual and physical servers while implementing RHEL 8 and 9 to meet operational requirements. Supervise and track application performance and infrastructure health using Nagios to ensure reliability and uptime. Manage and verify backup and recovery systems by performing regular tests and evaluations to safeguard data integrity. Utilize LVM, NAS, and SAN tools to manage and optimize file systems, ensuring efficient storage solutions. Evaluate and reinforce infrastructure scalability and resiliency by conducting rigorous testing and environment assessments. Support both customer-facing and internal applications to deliver consistent performance and troubleshoot issues effectively.

Key Contributions:

- Streamlined system provisioning and deployment by designing and implementing automated installation workflows using Kickstart, ensuring consistent configurations across environments.
- Managed and optimized storage solutions by leveraging LVM to resize partitions, create logical volumes, and integrate NFS for seamless file-sharing capabilities.

FTC – Dakar, Senegal   April 2021 to February 2022

Junior System Administrator

Developed, deployed, and configured virtual and physical servers, installing RHEL 7 and 8 on the network using both standard and advanced Kickstart techniques for OS installation and setup. Oversaw log management on Linux servers, resolving issues related to processes, crash and swap management, conducting password recovery, and fine-tuning system performance. Diagnosed and resolved hardware, software, and configuration issues on Red Hat Enterprise Linux 7 and 8 systems for system reliability and performance.

Key Contributions:

- Integrated Linux systems with Single Sign-On LDAP/Active Directory servers, configuring Auto-mount to enhance access control and streamline operations.
- Implemented, configured, and troubleshoot TCP/IP, DHCP, DNS, NFS, CIFS, and Samba servers in a multi-platform LAN environment to ensure seamless connectivity across systems.

Gerca – Dakar, Senegal   January 2018 to April 2021

Software developer
- Developed a ride-sharing cost optimization system with **Java , Spring Boot**, and **PostgreSQL**, improving fleet management with real-time location tracking.
- Integrated gate pass management system using **Java, Spring Boot**, and **React**, eliminating unauthorized entries by 100%.
- Implemented microservices communication using **Apache Kafka** and **Feign**, enhancing asynchronous and synchronous communications.
- Deployed an internal employee portal, increasing engagement and reducing paperwork by 90%.
- Improved system integration with external services via **RESTful APIs**, reducing manual processes by 50%.

Technologies Used:

- Java, Spring Boot, PostgreSQL MySQL, ReactJS, Kafka, Redis, AWS,(EC2, S3), Docker, Kubernetes, Jenkins, ELK Stack, Zipkin, Resilience4J

Education

Master of Science in Computer Science | Maharishi International University, Fairfield, Iowa (2023-2025)

Bachelor of Science in Computer Science | Assane Seck University, Ziguinchor, Senegal (2014-2017)

Certifications

● Red Hat Certified System Administrator (RHCSA) : link here

Technical Proficiencies

Operating Systems: Linux (RHEL 7, 8, 9), Centos

Tools & Scripting: Shell Scripting, Ansible, Git

Server Management: Apache HTTPD, LDAP, Active Directory (AD) Server

Networking: TCP/IP, DHCP, DNS

Storage Management: SAN, NAS, LVM, NFS, SAMBA

Programming: Python, Java, TypeScript

Databases: MS SQL Server, MariaDB, ADABAS

Reporting & Integration: SSIS, SSRS

Version Control and others: GitHub, Kafka, Docker, Kubernetes,ELK