WILLIAM MARTY BUCHAUS JR.

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EXECUTIVE SUMMARY

A highly experienced Linux Engineer with over 20 years of expertise in system administration, automation, and development. Furthermore, **adept in managing and securing complex Linux environments, including Debian, Ubuntu, RHEL, CentOS, and Arch Linux,** with **skills in cloud infrastructure, virtualization, and containerization technologies (Docker, Kubernetes, Podman)** coupled with a **passion for mentoring junior administrators and promoting best practices in systems management. Additionally**, **possess a proven track record in system hardening, patching, and troubleshooting, ensuring high system reliability and security,** complemented by a **strong background experience with configuration management tools like Ansible, Puppet, SaltStack, and CFEngine.** Overall, **committed to problem-solving and delivering quality-driven solutions in fast-paced environments** with **extensive leadership experience in teams managing 24/7 uptime SLA and security compliance across multiple industries.**

CORE COMPETENCIES

- Linux System Administration
- Automation Tools (Ansible, Puppet, SaltStack, CFEngine)
- Containerization (Docker, Kubernetes, Podman)
- Virtualization (QEMU/KVM, VMware, VirtualBox, Xen)
- System Security & Hardening
- Configuration Management
- Continuous Integration/Continuous Deployment (CI/CD)
- Cloud Infrastructure Management
- Network Security & Firewalls

- Incident Management & Troubleshooting
- DNS Management & Configuration (BIND, MyDNS)
- Server Maintenance & Patching
- DevOps Practices & Site Reliability Engineering (SRE)
- Backup & Disaster Recovery
- Performance Monitoring & Tuning
- Scripting & Automation (Python, Shell Scripting)
- Data Center Management
- Collaboration & Mentoring

CAREER HIGHLIGHTS

Automation & Configuration Management: Strong background in using Ansible, Puppet, and SaltStack for system automation and rapid deployment of configurations, ensuring standardized and efficient management of large infrastructures.

System Security: Expertise in securing Linux environments through effective firewall management, patching, and adherence to security compliance standards to meet CIS and SOC2 requirements.

Disaster Recovery: Proven experience managing backup systems, ensuring disaster recovery solutions are in place, and minimizing downtime for critical systems.

System Troubleshooting and Problem-Solving: Possess a keen problem-solving mindset to independently identify, analyze, and resolve complex system-related issues in both production and development environments.

PROFESSIONAL EXPERIENCE

DevOps Engineer / Site Reliability Engineer   January 2022 - Present
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- Streamlined operational automation by implementing Ansible to automate system updates and security patches, enhancing operational efficiency and reducing downtime while improving security compliance.
- Led the design and deployment of CI/CD pipelines utilizing Jenkins, facilitating faster application delivery cycles and ensuring system updates met stringent security standards.
- Enhanced system monitoring by integrating Ansible with existing monitoring tools, leading to improved incident response times and proactive issue resolution.
- Oversaw 24/7 system availability, managing over 200 production servers and ensuring high uptime across critical services.
- Actively mentored junior engineers, providing hands-on guidance on Linux administration, system troubleshooting, and best practices in system security.
- Spearheaded the migration of critical systems to containerized environments using Docker and Kubernetes, improving system scalability and simplifying deployment processes.

Senior Systems Administrator   **January 2012 - January 2022**

RACKSPACE

- Managed the maintenance, optimization, and automation of hundreds of production servers, ensuring system stability and security across critical client-facing services.
- Leveraged Puppet and SaltStack to automate server configuration and management, significantly improving deployment times and consistency across multiple environments.
- Spearheaded the development and execution of Disaster Recovery (DR) protocols, ensuring rapid recovery of mission-critical infrastructure and applications.
- Led the optimization and integration of CI/CD pipelines using Jenkins, streamlining the deployment process and reducing downtime related to production updates.
- Played a key role in auditing and maintaining PCI, HIPAA, and SOX compliance for critical systems, ensuring robust security protocols and up-to-date practices in line with industry standards.
- Managed and administered cloud-based infrastructures, overseeing the scaling of virtual machines and ensuring seamless operation of infrastructure to support growing client needs.

Systems Administrator   **April 2010 - January 2012**

OPTIONMONSTER / TRADEMONSTER

- Managed and optimized over 300 servers across production, staging, and DR environments, ensuring high availability for 24/7 trading operations with zero downtime during market hours.
- Spearheaded the deployment of a comprehensive load-balancing solution using BGP/OSPF, enhancing site redundancy and improving system uptime for critical financial services.
- Led the implementation of CFEngine for automation of system configuration, reducing manual intervention and ensuring consistency across servers.
- Collaborated with cross-functional teams to support dev teams in deploying critical updates and reducing production-related incidents through proactive testing and integration.
- Managed network security configurations and firewalls for all production environments, ensuring secure access for over 40 brokers and 18 developers.
- Provided mentorship to junior system administrators, improving team efficiency and knowledge-sharing practices in system management and troubleshooting.

Data Center Systems Administrator   **December 2008 - April 2010**

FERMI LAB

- Managed the random access to sequentially stored data from thousands of LTO tapes, implementing a custom in-house solution that transformed these tapes into a 19 Petabyte "virtual hard drive," allowing for efficient data retrieval and management.
- Developed and integrated Python-based metadata systems, significantly enhancing the data transfer process between LTO tape drives and NAS storage systems.
- Led the design and implementation of data management processes supporting high-performance computing environments, improving system performance, and reducing data retrieval times.
- Managed complex server clusters and collaborated with cross-functional teams to support seamless data processing and ensure minimal downtime for scientific research applications.
- Implemented advanced system monitoring tools to proactively detect and resolve issues, reducing system downtime by identifying and addressing potential risks before they impact operations.
- Contributed to the design of the data center's infrastructure and network configuration, optimizing storage systems to handle vast amounts of data efficiently.

Systems Administrator / Network Engineer   **December 2006 - April 2010**

ASI TECHNOLOGIES

- Managed the setup, design, and networking for data center systems, overseeing the deployment of critical business applications and ensuring seamless operation across all servers.
- Oversaw network configuration for highly complex systems, reducing network bottlenecks by optimizing server-to-server communications.
- Implemented backup strategies for data integrity, ensuring disaster recovery systems were in place for all production environments.
- Optimized system performance through configuration tuning and monitoring, leading to improved service delivery and reduced latency.
- Led the configuration and management of DNS services (BIND, MyDNS), ensuring reliability and security for all internal and external systems.
- Provided troubleshooting and technical support for system and network-related issues, improving overall infrastructure reliability and reducing incident response time.