Devin Liggins

Location: Ellicott City, MD Phone Number: 667-786-3382

GitHub: <https://github.com/DevinLiggins14>

Email: devinliggins56@gmail.com

LinkedIn: <https://www.linkedin.com/in/devin-liggins/>

SUMMARY:

Linux Engineer with 4 years of experience managing Linux-based systems, optimizing performance, and ensuring high availability. Looking to bring value to company or team by enhancing system efficiency, reducing downtime, and implementing automation to streamline workflows, enabling faster deployments and more reliable operations. Skilled in Linux system administrator responsibilities, shell scripting, and automatio. Seeking to expand expertise into DevOps Engineer and Cloud Engineer space, focusing on CI/CD pipelines, containerization (Docker, Kubernetes), and cloud platforms like AWS and Azure

EDUCATION & CERTIFICATIONS:  
  
• **LPI Linux Essentials Certified**   
• **CompTIA Linux Plus Certified**• **LPIC-1 Certified**• **AWS Cloud Practitioner Certified -- [Cloud Quest]**  
• AZ-900: Microsoft Azure Fundamentals Certification (Scheduled)  
• **LFD103: Linux Kernel Development Certified**  
• **CompTIA Security Plus Certified**  
• **AWS Certified DevOps Engineer - Professional Certified**• RHCSA (scheduled)  
• RHCE (Scheduled)  
• Microsoft Certified: DevOps Engineer Expert (scheduled)  
  
  
Education: UMGC (University of Maryland) global campus: Bachelor’s in Cybersecurity Technology  -- (Expected graduation date: 2025)

SPECIALIZED TECHNICAL SKILLS:  
  
● **Hardware:** HP ProLiant G7- G10, SFS Devices, Dell PowerEdge R740 (Rack-mounted server)  
● **Operating Systems:** RHEL 5 - 9, CentOS 5 - 9, Ubuntu, Oracle Linux, Windows 7 - 10, Windows Server 2019 - 2022, AIX  
● Integration: Postman, RESTful APIs, FastAPI, SOAP APIs  
● **DevOps:** Jenkins CI/CD pipelines, GitOps with ArgoCD, GitHub Actions, Azure DevOps (Azure repos 🡪 Azure Pipelines), GitLab CI/CD, AWS  CodePipeline (CodeCommit 🡪 CodeBuild 🡪 CodeDeploy)  
● **Middleware:** Jboss, Wildfly, RabbitMQ, Apache Tomcat  
● **Big Data:** ELK Stack, Hadoop, Apache Kafka, Hadoop Distributed File System (HDFS), Apache Flume, Apache Spark  
● **Programming Languages:** Shell Scripting( Bash & Z Shell), Python, Yaml, SQL, JavaScript, C/C++, LAMP, Json, Groovy, HCL, Java, JavaScript, HTML, CSS,Batch Scripting (Windows), PowerShell Scripting, Maven, Node.js, Go (Golang), Ruby  
● **Cloud (Software, Networking, Security, Databases, Storage, Intergration, OS):** AWS CLI, Azure CLI, AWS management Console, Azure AD, AWS EC2, AWS CloudWatch, Azure Functions, Azure Logic Apps, AWS VPC, AWS CloudFormation, Azure Firewall/NSGs, Azure VNets, AWS KMS, Azure Key Vault, AWS ELB, AWS RDS, AWS DynamoDB, AWS Storage Gateway, Azure Data Lake Storage, Amazon EBS, Amazon EFS, Azure Disks, AWS s3, Azure Comos DB, AWS Aurora, AWS Route 53, AWS IAM, AWS Security Groups, AWS Security Hub, Azure Security Center, AWS ECS, AWS EKS, AWS Fargate, Azure AKS, AWS Lambda, Azure Functions, Azure DNS, AWS CloudFront, Azure VMs, Azure ARM Templates  
● **Networking:**TCP/IP, NIS, NFS, DNS, DHCP, LAN, WAN, FTP/SFTP, RDP, Firewall Configuration, Tcpdump, WireShark, SSH, SFTP, Reverse proxy (Switch Omega), CLSPS, RSTP, Ffmpeg, telnet, ping, Fail2Ban, OpenSSH, OpenVPN, NAT, PAT, SSO, SMTP, IPsec, Apache, Nginx, Routers & Switches, NIC, IPv4/IPv6, UDP, BGP, BIND, NTP, VLANs, ACL, HTTP/HTTPS, LDAP, DNSSEC, SNMP, CIDR Notation, UFW, WPA/WPA3, Firewalld, NIC, IPsec, Subnets, 802.1X, IEEE 802.11, Palo Alto, Fortinet, F5 loadBalancing  
● **Security:** DISA STIGs, OpenSCAP, CIS Benchmark (Level 1 & 2), Kerberos, SELinux, AppArmor, PAM, SSL/TLS, IDS/IPS, SNORT, AIDE, CyberArk, Hashicorp Vault, ACLs, Nessus, NIST SP 800-53  
● **Storage:** LVM, iSCSi, SATA, Ext 4, XFS, SAN, NFS, SAMBA, RAID (0/1/5/6/10), NAS, MBR/GPT, Rsync, Tar, AutoFS, GlusterFS, FreeNAS  
● **Software:** Ansible, VMware Exsi 6.7/7.0, Putty, MobaXterm SSH Client,         
PowerShell, RedHat Satellite, Prometheus & Grafana., Unitrend Backups, ServiceNow Ticketing system, Atlassian Jira Ticketing System, Docker, vSphere 7.0/8.0, VirtualBox, Iso images, Microsoft 365, Git, Podman, Nagios, Zabbix, Gitlab, GitHub, RedHat Kickstart, .NET 6, RedHat IDM, KVM, Hyper-V, Vagrant, Docker SWARM (Orchestration), Kubernetes, RedHat OpenShift (VERSION: 4.10), Terraform, HAProxy, Nagios, Zabbix, Hashicorp Packer, Excel, Splunk, Active Directory   
● **Databases:** MySQL, PostgreSQL, Redis, MongoDB, MariaDB

PROFESSIONAL BACKGROUND:

**Imperial Millennial.., Columbia, MD.. Oct 2022 – Present**

**Linux Engineer (DevOps & Cloud)**

**Project(s):**

* **Jenkins and RedHat OpenShift CI/CD Pipeline: Link 🡪** [**https://github.com/DevinLiggins14/Jenkins-OKD-CICD-Pipline-**](https://github.com/DevinLiggins14/Jenkins-OKD-CICD-Pipline-)
* **Kernel Development (Customization & Optimization): Link 🡪** [**https://github.com/DevinLiggins14/Linux-Kernel-Customization**](https://github.com/DevinLiggins14/Linux-Kernel-Customization)
* **Prometheus & Grafana – AKS Setup and Monitoring: Link 🡪** [**https://github.com/DevinLiggins14/Prometheus-Grafana-AKS-cluster-Setup-and-Monitoring**](https://github.com/DevinLiggins14/Prometheus-Grafana-AKS-cluster-Setup-and-Monitoring)

**Experience:**

● Implemented and managed CyberArk for secure credential storage and privileged access management across client IT systems, reducing unauthorized access risks and ensuring compliance with security protocols.   
● Engineered and optimized CentOS 7-9 and AIX systems for digital advertising platforms, automating updates and improving stability by 30% using Ansible and PowerShell scripts.   
● Integrated Hadoop Distributed File System (HDFS) and Apache Flume to manage big data storage for content creation analytics, increasing data processing speed and supporting the growth of client online presence.   
● Automated API testing and integration with Postman and SOAP APIs, improving communication between marketing systems and client websites, reducing manual errors by 15% and enhancing user experience.   
● Developed and deployed Node.js applications for real-time social media engagement tracking, leveraging SQL and MongoDB databases, reducing query execution time for faster content delivery.   
● Built and maintained GitHub Actions and AWS CodePipeline to automate deployment workflows for advertising campaigns, reducing time-to-market by 35% and improving campaign effectiveness.   
● Optimized middleware configurations using Apache Tomcat and Wildfly, enabling smoother integration between content management systems and social media APIs, increasing data sync efficiency   
● Leveraged Apache Spark for real-time data analytics in social media advertising campaigns, improving insights generation and enabling more accurate targeted ads.   
● Automated server infrastructure with Terraform and AWS Lambda for dynamic scaling of client digital platforms, reducing operational costs by 25% while supporting increased user engagement during marketing campaigns.   
● Implemented robust security protocols including Kerberos, PAM, and SSL/TLS, securing sensitive client data and reducing the risk of breaches for an online marketing client.   
● Architected and deployed highly available cloud environments with AWS EC2, Azure VMs, and AWS DynamoDB for a content creation firm, enabling rapid content delivery and improving platform performance   
● Managed networking protocols such as FTP/SFTP, RDP, NAT, and PAT for remote content teams, improving file transfer efficiency and secure communication, which led to faster content updates across websites.   
● Configured firewalls using Azure Firewall and AWS Security Groups to protect client websites from DDoS attacks, enhancing security and ensuring website uptime during heavy traffic periods.   
● Engineered backup solutions with LVM, iSCSI, and SATA for storing critical marketing data, ensuring redundancy and improving data recovery times for an advertising client.   
● Utilized RedHat OpenShift and Kubernetes to orchestrate containerized environments for digital ad servers, reducing deployment times by 40% and enabling smoother updates to live platforms.   
● Secured networks using IDS/IPS, SNORT, and Nessus, identifying and mitigating vulnerabilities in social media platforms, reducing potential threats by 25% for content creation clients.   
● Configured RAID 5 for increased data redundancy and improved storage performance in cloud environments, ensuring zero downtime for critical content marketing platforms.   
● Monitored and maintained 10,000 Servers using Prometheus and Grafana dashboards for content delivery networks, providing real-time performance insights, which enabled faster issue resolution and improved uptime by 99%.   
● Built and optimized vSphere 7.0 virtualized environments for running multiple social media marketing tools, reducing hardware costs while maintaining high system availability.   
● Implemented and maintained NFS and Samba for cross-platform file sharing, enabling seamless content distribution across multiple teams and reducing data retrieval times   
● Automated provisioning of Oracle Linux and Windows Server 2022 for marketing tools, leveraging GitLab CI/CD and AWS CloudFormation, improving scalability and reducing provisioning times   
● Deployed and configured HAProxy and F5 Load Balancing for high-traffic digital platforms, ensuring balanced workloads across servers, which improved response times and reduced server downtime   
● Developed custom scripts using Ruby, and Batch Scripting for automating repetitive tasks in content management systems, saving in manual workload and improving content delivery speed.   
● Integrated monitoring tools like Nagios and Zabbix for tracking website uptime and performance, enabling proactive response to issues and improving client satisfaction by ensuring 99.5% uptime.   
● Leveraged AWS CloudFront and Azure Functions for content delivery optimization, reducing latency for global digital marketing campaigns, resulting in better audience engagement and faster load times.

**Premier LLC.., Jessup, MD.. Jan 2021 – Oct 2022**

**Linux Engineer/Linux Administrator**

**Projects:**

* **Configuration Management And Automation (Ansible & Python): Link 🡪** [**https://github.com/DevinLiggins14/Configuration-Management-and-automation**](https://github.com/DevinLiggins14/Configuration-Management-and-automation)
* **SSO Implementation For Integrated Systems: Link 🡪** [**https://github.com/DevinLiggins14/SSO-implementation-for-integrated-systems**](https://github.com/DevinLiggins14/SSO-implementation-for-integrated-systems)

**Experience:**

● Configured and deployed HP ProLiant G10 and Dell PowerEdge R740 servers, integrating RAID 10 storage for dog training centers, ensuring high availability and reducing downtime by 25% during peak usage.  
● Managed and optimized RHEL 8 and Windows Server 2019 environments using Ansible and PowerShell Scripting for veterinary clients, improving system performance by 30% through automated patching and resource allocation.  
● Integrated RESTful APIs and SOAP APIs using Postman for a dog grooming app, improving communication between frontend and backend systems, reducing API response times  
● Automated CI/CD pipelines using Jenkins, GitLab CI/CD, and Azure DevOps, allowing seamless deployments across AWS EC2 and Azure VMs for a pet adoption platform, decreasing release cycles  
● Engineered and deployed middleware solutions using JBoss, Wildfly, and Apache Tomcat for dog boarding facilities, enabling reliable backend services and reducing application downtime  
● Implemented big data pipelines using the ELK Stack, Hadoop, and Apache Kafka for real-time analysis of dog health data, increasing data processing efficiency for veterinary clients.  
● Developed and maintained custom scripts in Python, Bash, and PowerShell to automate backups and system health checks on NAS and SAN devices, ensuring zero data loss for dog medical records.  
● Orchestrated cloud infrastructure with AWS CloudFormation, Azure ARM templates, and Terraform, deploying AWS RDS, Azure Data Lake Storage, and MongoDB databases for a dog training management platform, improving scalability by 50%.  
● Configured networking protocols such as TCP/IP, DNS, DHCP, and NFS for a dog grooming service, ensuring secure and efficient network communication, reducing connection issues  
● Secured systems using DISA STIGs, CIS Benchmarks, SELinux, and AppArmor, ensuring compliance with industry standards for dog shelter clients, reducing security vulnerabilities  
● Monitored and optimized containerized applications on Docker Swarm, Kubernetes, and AWS ECS for a dog walking service, ensuring 99.9% uptime by leveraging Prometheus and Grafana for real-time monitoring.  
● Integrated AWS IAM, Azure AD, and HashiCorp Vault for secure user authentication and data encryption across multiple clients, reducing unauthorized access risks by 40% in the pet industry.  
● Deployed and configured RabbitMQ and Apache Kafka for real-time messaging between mobile dog tracking devices and backend servers, improving communication latency  
● Set up firewall configurations with Palo Alto and Fortinet for dog adoption services, ensuring secure connections using SSL/TLS, IDS/IPS, and SNORT, decreasing security breaches  
● Managed databases such as MySQL, PostgreSQL, and Redis for dog supply inventory systems, optimizing queries and storage solutions for better data retrieval, improving database performance by 25%.  
● Optimized cloud storage solutions using AWS S3, Azure Data Lake, and AWS EFS, ensuring scalable and reliable data storage for dog grooming applications, reducing storage costs  
● Utilized DevOps tools like GitOps with ArgoCD, AWS CodePipeline, and Azure Pipelines to automate infrastructure deployments, enabling faster provisioning of resources for a dog boarding app, reducing manual errors  
● Engineered secure network connections using OpenVPN, Nginx, and SSH for a dog health monitoring system, ensuring end-to-end encryption and reducing data transfer risks by 25%.  
● Developed and integrated FastAPI microservices with JSON and YAML configurations for a pet supply platform, resulting in a increase in API performance and faster customer checkout times.  
● Configured and maintained vSphere 7.0 and KVM virtualization solutions for dog shelters, enabling cost-effective server virtualization and reducing hardware costs across multiple locations.

**Mount Hebron Highschool.., Ellicott City, MD.. OCT 2020 – December 2020**

**Linux/Windows Admin -- Internship**

**Experience:**

● Managed and maintained the school’s RHEL and Windows Server 2019 infrastructure, ensuring 99.9% uptime and smooth operation of critical systems like student databases and learning management platforms.   
● Configured and deployed new Windows 10 and Ubuntu workstations for classrooms and administrative offices, improving system performance and reducing setup time   
● Automated system updates and patch management for RHEL and Windows environments using Ansible and PowerShell Scripting, reducing security vulnerabilities   
● Implemented and maintained secure Active Directory for user authentication, managing user accounts, group policies, and permissions for over 1,000 students and staff   
● Configured and optimized NFS and SAMBA file sharing across the Linux and Windows environments, improving file accessibility for teachers and students   
● Monitored network traffic using Tcpdump and WireShark to troubleshoot connectivity issues, reducing downtime of critical systems like student portals and online learning platforms   
● Performed regular backups of important data on NAS and SAN storage systems using Rsync and Windows Backup, ensuring data integrity and fast recovery during outages.   
● Secured network by configuring firewall rules, OpenVPN, and Fail2Ban on Linux systems, protecting against unauthorized access and improving overall network security   
● Created and maintained user-friendly documentation for staff and IT personnel, covering Linux and Windows system management, backup procedures, and security best practices.   
● Provided technical support to faculty and students for both Linux and Windows systems, resolving issues related to login, software installations, and network connectivity, improving resolution time