

Summary:

Linux infrastructure specialist with twenty-four years of experience in training, on-prem, or cloud computing platforms (AWS, GCP). Using my training background, systems administration/architecture know-how, and course development knowledge to architect robust, scalable digital infrastructure. Focusing on core business technology: custom Linux distribution creation, systems automation and DevOps methodologies, telecommunications, systems architecture, design and training.

Experience

UserTesting – Staff Software Engineer / Ops and Infrastructure Team Lead – Mar 2021 - Mar 2023

As a staff operations engineer and team lead, I lead a team of seven engineers supporting and maintaining a large legacy code-base. Architected a Kubernetes and Terraform based platform for microservice deployment.

- Managed team backlog and quarterly project planning, maintaining a balance between new infrastructure related projects and legacy maintenance needs while paying down technical debt
- Created best-practices for the engineering department as well as leading our DevOps and Cross-Squad Architecture Guilds
- Interfaced with the security team ensuring the company met its compliance requirements (SOC2, SOX, GDPR, and ISO27001)
- Developed tooling to improve developer experience
 - Built reusable workflows for both GitHub Actions and CircleCI, reducing the amount of CI/CD code the developer would have to create and maintain
 - Created a standardized application infrastructure to reduce the time required to deploy new microservices to non-production environments
- Maintained legacy application infrastructure including an AWS Elastic Container Service (ECS) cluster
- Maintained our custom ruby-on-rails deployment application, migrating it from Heroku to a self-hosted Kubernetes environment, reducing overall operations cost as well as improving our security
- Designed a new application platform based on Kubernetes (Amazon Elastic Kubernetes Service – EKS)
 - Separated production and non-production workloads into different AWS accounts

Nav – Principal Software Engineer DevOps – Aug 2017 - Feb 2021

As a principal software engineer with a focus on DevOps, I architected, deployed and maintained the infrastructure platform for a late-stage fintech startup. Architected and oversaw migration of a mid-sized traditional Amazon AWS infrastructure into Kubernetes hosted on AWS.

- Mitigated legacy architecture problems using automation(Ansible), security tools (HashiCorp Vault), and my systems operations background.
 - Built a new Ansible architecture to standardize the settings, security, and management of legacy(EC2) infrastructure servers.
 - Created a tool called [vault_helper](https://gitlab.com/goozbach/vault_helper)¹ to ease the rotation of encryption keys of the HashiCorp Vault system.
 - Centralized audit logging and user management for HashiCorp Vault. This increased security, accountability, and auditability of the secret storage and encryption systems.
- Built new Kubernetes platform and migrated legacy applications onto it.
 - Built architecture to allow legacy apps and new (k8s) apps to communicate as if they were on the same platform.

¹https://gitlab.com/goozbach/vault_helper

- Standardized a containerization workflow to allow for better security and maintainability.
- Enabled containerized applications to leverage HashiCorp Vault’s encryption as a service to secure customer data.
- Assisted developers in migrating their legacy applications to the new platform with minimal downtime.
- Improved developer workflow processes and tooling.
 - Created company-wide engineering standards
 - * JSON based logging standard
 - * Secret management and encryption standards
 - * Standard for the proper use of non-production (QA, integration, staging, and sandbox) environments.
 - Built a “canary application” which tested and exercised all the possible features of the platform. This enabled testing of CI/CD pipelines and environments without involving production applications
 - Built a centralized CI/CD pipeline system to standardize deployment pipelines. This enabled developers to focus on their application code, not deployment artifacts and scripts.
 - Built CI/CD pipeline tooling to automate common tasks
 - * Creation of databases with their corresponding users
 - * Create master database user/password and store secrets into HashiCorp Vault
 - Migrated all infrastructure creation from an ad-hoc solution to HashiCorp Terraform. Enabling repeatable and better maintainable infrastructure.
 - Implemented RunDocs for every application, bringing operations and development closer into alignment. This also increased the resiliency for the running applications.

Goozbach Infrastructure Solutions, LLC – Linux Infrastructure Consultant and Instructor – Dec 2011 – Present

Owner and primary consultant of successful Linux consulting and training company providing Linux support and best practices consultation. Customers include RedHat training partners, Linux Foundation, Endosys, Sangoma, Local, State, Federal Government, and the Department of Defense. Customer environments range from dozens to thousands of servers.

Services provided include system updates, configuration management, installation automation, Bash and Python scripting, training delivery, training course development, Telephony Systems design and installation, and other systems administration tasks.

- Consulting customers on DevOps policies, procedures, and tools, using continuous integration (Jenkins), unit testing (Test Anything Protocol, Rspec), configuration management (Puppet, Ansible, CFEngine, Salt), and installation automation (Cobbler, PXE, Kickstart)
- Maintained on-site networking infrastructure for municipal governmental agency.

Bluehost – Sr Systems Architect, DevOps – Aug 2014 - Aug 2017

Sr Linux Systems architect embedded in development team.

Built tools, processes and environments to help facilitate better development team productivity.

Supported pre-production developer environments allowing development team to focus on product development tasks.

Additional Information

- Open Source Projects:
 - [GitHub](#)²
 - [GitLab](#)³

²<https://github.com/goozbach/>

³<https://gitlab.com/goozbach/>