

Kirk Rogers – Sr Cloud Infrastructure & Automation Engineer

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Professional Summary

Results-oriented Cloud Infrastructure and DevOps Engineer with over 30 years of experience designing, deploying, and managing scalable multi-environment cloud systems. Proven track record of delivering projects on time and within budget while resolving daily operational challenges through a proactive, hands-on approach. Experienced in using AI-assisted tooling and workflow automation to streamline infrastructure operations, documentation, and knowledge management while maintaining security and governance controls.

Core Skills

- Cloud Platforms: AWS, Google Cloud Platform (GCP)
- Containerization: Docker, Kubernetes
- CI/CD Tools: Jenkins, AWS CodePipeline
- Infrastructure-as-Code: Terraform, Ansible
- Networking: VPC configuration, DNS, Load Balancers, VPN, Firewalls, AWS SFTP
- Programming Languages: Python, Bash
- Observability Tools: Git, Linux, Warp CLI, Claude AI, Apache/Nginx, RDBMS, MTA
- Other Tools: Build Automation, Scripting, GitHub, Linux, Apache/Nginx, RDBMS, MTA
- Project Management: Skilled in leading teams and overseeing architectural design, ensuring seamless alignment with business goals and objectives.

Dedicated to enhancing automation and efficiency in cloud solutions, working collaboratively with teams to align goals and deliver outstanding results in complex, fast-paced environments.

Work History

FanFix

01/2025 to Present

DevSecOps Engineer

- As lead DevSecOps engineer, solely responsible for designing, managing, and maintaining GCP infrastructure-as-code across multiple and distinct environments, organized into discrete Terraform layers, enabling independent and auditable deployment with PR-gated workflows.
- Leveraged AI-powered CLI and development tools (Warp, Claude) to accelerate codebase comprehension, infrastructure troubleshooting, and solution discovery across a complex multi-repository microservices architecture. Maintained high commit cadence across infrastructure repositories simultaneously.

- Architected and deployed enterprise Apache Airflow data orchestration platform across development and production environments, creating complete infrastructure-as-code solution with custom Terraform modules, Kubernetes manifests, and integrated service accounts for Snowflake, Sendgrid, Posthog, and Sendbird. Enabled organization-wide automated ETL pipelines and scheduled job orchestration.
- Led Kafka monitoring modernization initiative, evaluating enterprise (Kpow) and open-source (AKHQ) solutions, executing complete migration from legacy Kafdrop tooling with zero downtime. Deployed production-grade AKHQ implementation with SASL authentication, gateway routes, health checks, and comprehensive documentation. Reduced tool licensing costs while improving developer visibility into event streaming infrastructure.
- Established infrastructure-as-code observability practices by creating Grafana dashboards repository with Terraform automation, GitHub Actions CI/CD pipelines, and secure API token management. Shifted monitoring from manual dashboard creation to version-controlled, reproducible infrastructure enabling team contributions via pull requests.
- Strengthened security posture by auditing and remediating 100+ GCS storage buckets, migrating from object-level to uniform bucket-level IAM access controls. Redesigned database access layer with role-based access controls and enhanced PostgreSQL access patterns for multi-environment support.
- Deployed production Kafka cluster infrastructure supporting real-time event streaming for microservices architecture. Built CI/CD workflows with workload identity authentication for automated Airflow deployment pipelines and manual promotion gates for production releases.

Technologies: Google Cloud Platform (GCP), GKE (Kubernetes), Terraform, Helm, Apache Airflow, Apache Kafka, AKHQ, Cloud SQL, Cloud Storage (GCS), IAM, Cloud Armor, GitHub Actions, Grafana, Python, Bash

JPMorgan Chase

03/2023 to 01/2025

Senior Cloud Engineer

- Hired directly from IBM as a full-time permanent employee for First Republic Bank, then acquired by Chase, responsible for developing and maintaining proprietary CI/CD pipelines while leading a team of support specialists.
- Service architectures included Spinnaker, Kubernetes (OpenShift and EKS), JFrog Artifactory, HashiCorp Vault, GitHub, CloudBees Jenkins, AWS RDS PostgreSQL.
- Developed and managed automated blueprints and Terraform configuration files to facilitate application deployments across various environments, ensuring efficient infrastructure provisioning and the seamless deployment of containerized services.
- Served as team lead, providing support to hundreds of engineers in utilizing tools for deploying applications and programs across diverse environments.
- Hands-on involvement in CI/CD pipeline management and containerized application support.

Technologies: Kubernetes (OpenShift and EKS), JFrog Artifactory, Hashicorp Vault, CloudBees Jenkins, AWS EKS (Kubernetes), PostgreSQL (AWS Aurora), Spinnaker, Terraform, Python, Bash

IBM

01/2021 to 02/2023

Consultant - Cloud Engineer

- As a consultant for IBM (formerly TAOS), contracted to First Republic Bank, I served as a Cloud Engineer and a member of the enterprise architecture team, delivering cloud infrastructure and support for hundreds of engineers.
- Managed and maintained a CI/CD pipeline CLI/API tool written in Python using Jenkins, Kubernetes, Hashicorp Vault, Artifactory, AWS RDS, to streamline deployment processes and automate the software development lifecycle across multiple platforms and programming languages.
- Optimized the underlying provisioning system by analyzing and refining API calls, creating a more efficient process.
- Collaborated with multiple teams to redesign the client on-boarding process, providing a self-serve online utility resulting in an accelerated experience.
- Enhance secured configurations using Hashicorp Vault to provide connectivity to multiple services.
- Created comprehensive documentation for infrastructure processes and workflows to facilitate knowledge sharing and onboarding.
- Assisting engineering teams with building and deploying applications to various environments with a variety of containerized options.
- Collaborated with teams to establish observability using NewRelic and CloudWatch.
- Training: Google Cloud Platform (GCP) Professional Architect Certified

Technologies: RedHat OpenShift Container Platform (OCP), Artifactory, Hashicorp Vault, CloudBees Jenkins, AWS EKS (Kubernetes), PostgreSQL (AWS Aurora), GitHub Repository.

TrueData

09/2017 - 12/2020

Senior DevOps Engineer

- An AdTech company, enabling publishers and advertisers to connect with their audience, responsible for providing company wide leadership and direction for all AWS infrastructure and services.
- Accountable for AWS Cloud management and budget, reduced monthly cost of service by 30%, including S3 lifecycle adjustments, API Gateway throttling, Mobile SDK redesign, EC2 management, CI/CD Pipeline and ECS implementation, RedShift cluster reduction and tuning, Kinesis data pipeline management, fine tuning all AWS services across the board.
- Redesigned a cost prohibitive API gateway layer, replacing it with a Kinesis/Firehose direct pipeline which dramatically improved performance and security while reducing overall cost. This complete serverless pipeline provides the method for data Ingestion from an SDK App to S3/DB end-to-end.
- Implemented a VPN architecture to provide a secured environment enforcing AWS best practices. Introduced OpenVPN + MFA to create a secured and compliant architecture, including multi VPC Peering connections, VPC Endpoints, routing table adjustments, public and private subnet management, and applying strict security group firewall constraints.

- Introduced Ansible and Terraform for configuration management as well as CI/CD pipelines with ECS Fargate, deploying infrastructure and services, removing legacy nodes and replacing with a managed server-less infrastructure.
- Spearheaded the containerization of corporate products and provided guidance to the engineering staff to utilize modern CI/CD pipelines.
- Managed several engineers while developing and delivering various IT projects on time and within budget.
- Tackling day to day technology challenges, along with providing overall guidance in architecture and design, utilizing dozens of AWS services.

Technologies: CloudFront, Cloudformation, Terraform, Ansible, Docker, ECS, EFS, SFTP, Fargate, CodeCommit, CodePipeline, CodeBuild, CodeDeploy, EC2, S3, RedShift, MySql, DynamoDB, API Gateway, Kinesis/Firehose, Lambda, CloudWatch, IAM, SQS, VPC, OpenVPN, SSO, Route 53, Cognito, SNS, SES, CloudFront. Bash shell scripting and Python.

SalesJobs

2006 - 2017

Senior DevOps Engineer

- CTO responsible for overall success of job website for 11 years. Determine strategic direction and spearhead technological integration of services and platforms to ease database burdens on labor intensive processes. Streamlined and fine-tune a broken web architecture into a top shelf, productive and easy to use job search website.
- Managed all aspects of company business processes and procedures: Managing personnel, hiring vendors, purchasing equipment, coordinating schedules, providing documentation, etc.
- In charge of all applications and processes, technical development of product: Completely revamped a dysfunctional and broken job board site to a fully functioning and successful business. Sales Jobs website architecture consisted of over 2 dozen Unix servers, dozens of applications and protocols, as well as self managing standalone and cron scripts. All aspects of the system architecture and functionality were redesigned and streamlined to produce a more flexible and streamlined job search website to be one of the top competing job boards.
- Architecture: Apache2 web servers (V2.4), Apache::ASP and Apache2/mod_perl2 front end API utilizing modern OO methods, MySQL/MariaDB databases in a master/slave configuration as well as backups, DNS servers configured as primary and secondary (DJBDNS), access servers providing customers with customized XML and Restful API feeds, multiple email servers (MTA) using DJB Qmail in a multi-node, multi-domain, channelized configuration. Set up firewalls to protect servers with restrictive iptables rules as well as the colo routers firewall (port specific access).
- Consolidated hardware to more robust Sun Microsystems M4 servers running Fedora OS. Transferred the service to an AWS cloud infrastructure using EC2 and RDS instances, developing and implementing strategies for CD/CI using AWS CodeDeploy, CodePipeline and S3. Managed and maintained all aspects of this service, managing AWS front end technologies, loading all supporting Linux core applications, installing custom

application programs and services and testing. Responsible for all code, performed all updates, troubleshoot all problems, as well as implemented new concepts and techniques. Streamlined code and applications to perform with minimum server resources maximizing front end performance.

- Developed large scale email distribution service for client contact requirements. Created private administrative front end for complete control of product, including monitoring and display of system critical components, alarm system, billing and notification system.

Technologies: EC2, S3, MySQL, API Gateway, Lambda, CloudWatch, IAM, VPC, Route 53, Linux, Sql/RDBMS, Oracle, RADIUS, ASP, PERL, CGI, SNMP and Fedora, FTP, SFTP, QMail, MTA distribution servers and processes, Object-oriented programming, SEO strategies

Independent System Engineer Systems Engineer

2002 - 2006

- Designed, developed and implemented system architectures including multi-node cluster applications requiring networking and system monitoring and maintenance.
- Solely designed, developed and implemented a large scale email distribution system comprising a cluster of Linux nodes and under the management of a central database and management interface.
- Hosted complete systems, providing development and staging platforms for virtual web hosting, custom Perl/CGI/DBI programming, DNS services, QMAIL, PowerMTA, and Custom MTA implementations, database design/warehouse, and customized service tools.
- Development and maintenance of complex Apache/mod_perl/MySQL systems for legal services.
- Design and deployment of complex multi node MTA email distribution system, complete with front end web admin tool and back end management access.
- Facilitated numerous short-term projects, coordinating hosting companies, customizing program implementations, creating databases, and providing consulting services.

FairIsaac Software Developer

2002

- Designed and administering proprietary EDI application (Claimport), providing on-line web interface for the insurance industry.
- Directly accountable for the entire functionality of the application including all development, management, and maintenance of Linux, and version control (CVS).
- Analyze, define and execute new customer requirements.
- Coordinate QA procedures and schedules for production code rollout.
- Ensure optimal performance of EDI application, consisting of hundreds of Perl modules and hosted by RH Linux with Apache, by utilizing Informix database backend and client-server application plug-in.

- Coordinated SFTP file transfers between central Claimport host and external client applications.

Nebula Software

2001

Software Developer

- Developed, configured, and installed automated registration process in a large Apache/Mod_Perl, Oracle, and MYSQL database.
- Worked in a Linux environment utilizing standard Perl packages and custom Perl object-oriented modules.
- Integrated HTML templates as well as designed new Perl packages and object modules to fit into existing Apache/Mod_Perl architecture.
- Built several large script/program files and packages to extract, manipulate, and insert data into a large RDBMS model from flat text and standard formats.

Rotor Inc

2000

Software Developer

- Directed, guided and coordinated activities of developers and QA technicians, leading several projects in Unix environments.
- Rendered DBA backup and support services including complete implementation of data restructure in Oracle.
- Assisted developers with troubleshooting and fine-tuning, engaging in data extraction, manipulation, and storage of live real-time log files.
- Planned and executed several Perl software solutions for distributed interactive systems.
- Created backend applications including Perl, Java scripting, Oracle, and web front-end interfaces.
- Developed a platform for system testing which included a web interface, interactive system control, client server port communication, and historical data mapping.

TRW

1985 - 1999

Systems Engineer

- As an engineer assigned to the company wide communications group, fully responsible for all hardware and software design, testing, troubleshooting and user support for private local networks, supporting all voice and data communications including video.
- Supported large LAN/WAN topology including dozens of locations, performing all voice and data installations and maintenance tasks as well as provided direction for new technologies.
- Configured and installed hardware, including multiple network access servers, routers and all LAN-related equipment.
- Developed software solutions for customized front-end/back-office web applications.
- Facilitated custom web interface providing tools for customers and administration.
- Analyzed and reviewed network activities including various protocols for distributed and point-to-point technologies.

- Installed and maintained the telephony system and provided connectivity from the MDF and everything in between (cross connects in the MDF and communication closets as well as T1 access from building to building) to the phone at the employee desk.
- Provided all data communication needs, LAN installation for local building networking as well as WAN connectivity from building to building using Cisco routers, switches, bridges, and T1/T3 communication links (Timeplex Multiplexers).
- Responsible for Timeplex Multiplexer equipment as well as the Ascend ISDN routers, providing point to point connectivity from building to building along with many other responsibilities.
- Demonstrated expertise in management of software systems including Linux, Sql/RDBMS, Oracle, RADIUS, ASP, Perl, CGI, SNMP, and 3rd party vendor products.

Education / Training

B.S. Degree in Electrical Engineering - California State University Long Beach, California

Certifications:

- GCP Professional Architect
- MCSE Microsoft Certified Systems Engineer
- Oracle RDBMS

Additional: Security Clearance and EBI Secret Clearance (Issued Nov. 1995)