

KURT LANGRUD

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Professional Summary

Senior Cloud Infrastructure Engineer, DevOps Engineer, and Solutions Architect with 20+ years in technology, specializing in cloud platform design, infrastructure automation, and scalable system architecture. Proven ability to translate business requirements into reliable, cost-efficient cloud solutions using Terraform, containerized platforms, and CI/CD pipelines. Recently earned **AWS Certified Solutions Architect – Associate** and **HashiCorp Certified: Terraform Associate** certification.

Experienced designing and operating secure, multi-account AWS environments with a strong track record of improving platform reliability and reducing operational costs—including a 40% reduction in infrastructure spend through architectural optimization. Background spans enterprise e-commerce, healthcare data platforms, and compliance-sensitive environments (HIPAA, HITRUST, SOC 2, PCI DSS, SOX). Adept at partnering with engineering and product teams to define infrastructure strategy, standardize platforms, and accelerate delivery.

Certifications

- **AWS Certified Solutions Architect – Associate** (2026)
 - **HashiCorp Certified: Terraform Associate** (2026)
 - **Linux/Unix Administration & Scripting Certificate Series** — O'Reilly School of Technology / University of Illinois Urbana-Champaign (2012)
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Core Competencies

- Cloud Architecture & Solution Design (AWS Certified Solutions Architect – Associate)
 - Multi-Account AWS Strategy Governance, & Cloud Networking
 - CI/CD Pipeline Design & Automation
 - Cost Optimization & Capacity Planning
 - Technical Leadership & Cross-Team Collaboration
 - Infrastructure as Code (Terraform Certified Associate, Ansible)
 - Containerization & Orchestration (ECS, EKS, Nomad)
 - Platform Engineering & Standardization
 - Security & Compliance (HIPAA, HITRUST, SOC 2, PCI, SOX)
 - Monitoring, Observability & Incident Response
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Technical Skills

Cloud Platforms: AWS (EC2, VPC, EKS, ECS, S3, Lambda, RDS, IAM, CloudWatch, FSx, EFS, ALB/ELB, Route 53, Auto Scaling)

Infrastructure as Code: Terraform (advanced module design), Ansible, Chef, Puppet, Packer

Containers & Orchestration: Docker, ECS (EC2 & Fargate), Kubernetes (EKS), Nomad

CI/CD & Version Control: GitLab CI/CD, Bamboo, Git

HashiCorp Ecosystem: Terraform, Nomad, Vault, Consul, Packer

Languages & Scripting: Bash, Python, Ruby, PHP

Observability & Monitoring: CloudWatch, ELK Stack, Nagios, New Relic, AppDynamics

Databases: PostgreSQL, MySQL/MariaDB, AWS RDS

Operating Systems: Amazon Linux, Ubuntu, RHEL/CentOS, macOS

Networking: AWS VPC Architecture, Subnets, Route 53 DNS, NAT Gateway, Security Groups, Network ACLs (NACLs), ALB/NLB Load Balancing, VPC Endpoints, DNS Resolution, Private Hosted Zones, TCP/IP, TLS/SSL, Cross-Account AWS Environments, Network Troubleshooting

Professional Experience

CyncHealth

Sep 2021 – Jan 2026

Cloud Engineer

Led cloud infrastructure design and operations for an organization operating healthcare data platforms, including health information exchange and prescription monitoring systems.

- Architected reusable Terraform module library powering standardized, multi-account AWS infrastructure across the organization
- Drove 40% reduction in AWS infrastructure spend through architectural redesign and resource optimization
- Designed and maintained CI/CD pipelines (GitLab) enabling automated, repeatable infrastructure and application deployments
- Built scalable cloud infrastructure supporting interoperability platforms, microservices (ECS), Lambda functions, and S3-based data pipelines
- Supported containerized workloads across ECS, and Kubernetes (EKS) environments
- Unified Terraform state management strategy, improving infrastructure consistency and maintainability across environments
- Resolved complex production issues spanning IAM, EC2 storage, Lambda, networking, and FSx
- Partnered with engineering teams to improve cloud architecture, platform reliability, and deployment best practices
- Implemented infrastructure patterns aligned with HIPAA, HITRUST, and SOC 2 compliance requirements

Technologies: AWS, Terraform, GitLab CI/CD, Docker, ECS, EKS, PostgreSQL (RDS), Linux

The Buckle, Inc.

Aug 2004 – Sep 2021

Web & E-Commerce Engineer → Senior Systems Engineer

Progressed from software development into infrastructure and DevOps engineering, ultimately owning infrastructure strategy for a high-traffic e-commerce platform and internal business systems.

- Managed infrastructure supporting a large-scale, high-availability e-commerce platform
- Led migration from co-located data centers to AWS cloud environments
- Operated hybrid infrastructure spanning AWS, private cloud, and VMware
- Designed infrastructure automation workflows using Terraform and configuration management tools (Chef, Puppet)
- Standardized server configuration across hundreds of systems using Chef and Puppet
- Architected microservice infrastructure using Nomad, Consul, and Vault
- Coordinated infrastructure changes across multiple development teams
- Implemented monitoring and alerting solutions using ELK Stack, Nagios, and New Relic
- Supported infrastructure compliance with PCI DSS and SOX audit requirements

Technologies: AWS, Terraform, VMware, Nomad, Linux, Chef, Puppet, GitLab CI/CD, MySQL/MariaDB, ELK Stack

Tri-City Adult Hockey League (Non-Profit)

Aug 2007 – Oct 2017

PHP Developer

Developed a full-stack web application to manage an adult recreational hockey league, supporting end-to-end league operations including registration, payments, scheduling, statistics tracking, and live player drafts.

- Designed and built the application from the ground up, including database schema, backend logic, and frontend templating
- Implemented player registration and payment workflows to streamline league onboarding and fee collection
- Developed scheduling system for games, including automated updates and team assignments
- Built game statistics tracking and standings calculations for teams and individual players
- Created a live draft system enabling real-time player selection and team formation
- Utilized templating engine to separate presentation from business logic and improve maintainability
- Deployed and maintained the application on a LAMP stack in a production environment

Technologies: PHP, MySQL, Apache, Linux, Smarty Templates

Open Source & Projects

Terraform AWS Modules Library — github.com/klangrud/terraform-aws-modules

Reusable Terraform modules for enterprise AWS environments: multi-tier VPC architecture, ECS container platform automation, cross-account S3 replication, and new-account bootstrapping.

Terraform Wrapper Scripts — github.com/klangrud/terraform-wrapper-scripts

Automation guardrails for Terraform workflows that improve deployment consistency and reduce human error across infrastructure environments.

PHP Hockey League Manager — github.com/klangrud/tcshl

Hockey league manager website written using PHP for a non-profit adult hockey league.

Education

University of Nebraska at Kearney

Bachelor of Science — Computer Information Systems & Geographic Information Systems