

KRISHNAKUMAR R

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CLOUD & DEVOPS ENGINEER

Skilled and adaptive **DevOps / Site Reliability Engineer** with **5+ years** of hands-on experience architecting, automating, and managing **cloud-native infrastructure** on AWS. Proficient in designing **CI/CD pipelines**, implementing **container orchestration** using Docker and Kubernetes, and applying **Infrastructure as Code** with Terraform and Ansible. Expertise in building scalable, secure, and reliable systems in agile, production-grade environments.

TECHNICAL SKILLS

- **Cloud:** AWS, AZURE, GCP
- **AWS:** IAM, EC2, S3, VPC, EBS, EFS, ECR, RDS, SES, CloudFront, IVS, Secrets Manager, EKS, ACM, Load Balancer, Auto Scaling, Security Groups, Datasync, Mediaconvert, Endpoints, Lambda.
- **Cloud Cost Optimization:** AWS Cost Explorer, Trusted Advisor, CloudWatch
- **Version Control & Collaboration Tools:** Bitbucket, Jira, Basecamp
- **Build Tools:** Maven, Gradle
- **IAAC:** Terraform & Ansible
- **Containers & Orchestration:** Docker, Docker Compose, Docker Swarm, Kubernetes, & OpenShift
- **API Gateway & Management:** Kong API Gateway, Konga Dashboard
- **CI/CD & DevSecOps:** Jenkins, GitHub Actions, GitLab CI, ArgoCD, SonarQube, Nexus, Trivy
- **Monitoring & Logging:** Prometheus, Grafana, Uptime Kuma, Graylog, Splunk & Datadog
- **Web Servers & SSL:** Apache, Nginx, Caddy, Certbot, Let's Encrypt, CertManager
- **OS:** Linux (Ubuntu)
- **Scripting & Automation:** Bash, Python, Shell scripting, Cron jobs
- **Realtime & Signaling:** Janus WebRTC, STUN/TURN, Consul
- **Messaging & Streaming:** RabbitMQ, Kafka, Redis
- **Databases & Storage:** MySQL, MongoDB, Cassandra, Elasticsearch

PROFESSIONAL EXPERIENCE

Cloud Admin II - CONTUS Tech

Nov 2021 - Present

Project/Product & Job Description

MirrorFly - Realtime Messaging Platform

Platform implemented for **clients JCB India, TrueMove H, JobSpace, ICICI Bank, MASDR, etc.**

- MirrorFly is a **real-time communication platform** (CPaaS) offering in-app chat, voice calling, and video calling SDKs/APIs for web and mobile apps. developed by **contus**
- **Integrated WebRTC** with **Janus servers**, STUN/TURN configuration, and secure signaling mechanisms to enable low-latency global video/audio communication.
- Redis, RabbitMQ, Cassandra, and MySQL for **real-time message queues, presence tracking, session storage, and persistence** — ensuring data durability and system availability at scale

VPlayed - OTT Streaming Platform

Trusted by enterprise **clients Blacksheep, PeriyarVision, Reelies, Royal Enfield, Ekluvya, etc.**

- VPlayed is an **OTT** platform developed by **Contus**, designed to help broadcasters, media houses, and content owners launch their own video streaming service similar to **Netflix, Disney+ Hotstar, or Amazon Prime Video**.
- Architected with **Kubernetes-based** container orchestration to deliver elastic compute for video processing, with **AWS MediaConvert and IVS** for transcoding and real-time broadcasting workflows.
- Succeed **global delivery** using Amazon CloudFront (**CDN**), S3, and Route 53, **ensuring low latency**, DNS-level routing, regional failover, and cache invalidation strategies to optimize user experience.

- Containerized applications using Docker and defined multi-service architectures with **Docker Compose** for local development and testing environments.
- Orchestrated production-grade workloads using **Docker Swarm** and **Kubernetes (EKS, OpenShift)** for scalability and high availability.
- Using **Kubernetes** manifests (YAMLs), Helm charts, and Kustomize templates to manage Deployments, Services, Ingress, ConfigMaps, Secrets, and RBAC policies, enabling consistent and versioned infrastructure changes across clusters.
- Built robust **CI/CD pipelines** using **Jenkins, GitHub Actions, GitLab CI, and ArgoCD**, integrating **Maven, SonarQube, Trivy, and Nexus** for full-cycle automation from code quality checks to artifact deployment and security scanning. Enabled GitOps workflows with auto-sync and progressive deployment strategies.
- Provisioned infrastructure using **Terraform** (modular IaC) and **Ansible** (agentless automation) to deliver repeatable, scalable environments across AWS. Used inventory, roles, and playbooks to configure multi-tier architecture in dev, staging, and production environments.
- Provision secure, scalable cloud architectures using **AWS EC2, S3, EBS, ECR, IAM, VPC, Route 53, Auto Scaling Groups, ALB/NLB, NAT Gateways, Elastic IPs, and CloudFront** for CDN distribution. Enabled security hardening with **AWS WAF, ACM, Secrets Manager, and IAM Roles/Policies** for least-privilege access control.
- Configured and optimized **AWS SES** for email communication, **IVS** (Interactive Video Service) for streaming workflows, and MediaConvert for transcoding video pipelines. Reduced infrastructure cost by 20–30% using Cost Explorer, Trusted Advisor, S3 Intelligent-Tiering, and Reserved Instances.
- Implemented proactive observability stacks using **Prometheus, Grafana, and Uptime Kuma** for metrics and uptime monitoring. Analyzed and centralized logs using **Graylog, Splunk, and Datadog** for real-time alerting and troubleshooting.
- Streamlined HTTPS provisioning using **Let's Encrypt, Certbot, and SSL** with **Nginx, Apache, and Caddy** web servers. Created reverse proxy, caching, and load balancing configurations for web delivery.
- Automated routine tasks, cron jobs, and custom deployment logic using Bash, Shell scripting, and Python. Managed secrets, service registry, and health checks using Consul in **microservice-based architectures**.
- Built real-time communication systems using **Janus WebRTC, STUN/TURN** servers, and SIP protocol for low-latency audio/video streaming and signaling. Deployed and distributed messaging and event-driven systems using Kafka, **RabbitMQ, and Redis** for queuing, caching, and streaming.
- Provisioned and optimized databases including **MySQL, MongoDB, Cassandra, and Elasticsearch**, handling replication, indexing, and backup strategies for fault tolerance and high throughput.
- Collaborated in Agile teams, handled **JIRA** tickets, and contributed to DevOps onboarding documentation via Confluence. Drove initiatives that improved deployment velocity, reduced downtime, enhanced system reliability, and maintained 99.99%+ availability in production.

System Executive - LUMINA DATAMATICS

Nov 2020 - Oct 2021

- Monitored Ubuntu-based servers in a **24/7 operational setup**, ensuring high availability, performance, and system health across virtual and cloud infrastructure.
- Conducted and documented **daily health checks**, including CPU, memory, disk usage, and system uptime, and communicated reports to clients and stakeholders.
- **Analyzed server logs and monitoring alerts** to identify performance issues and anomalies, escalating to DevOps teams when required for timely resolution.
- Reduced repetitive manual tasks by developing scripts for routine server checks and reporting, & Acted as the primary liaison for 24/7 client communication, gathering and documenting business requirements for SaaS-based platforms.
- Coordinated incident escalations and task delegation to DevOps and engineering teams, ensuring timely resolution and system reliability.
- Supported continuous operations and incident response efforts by collaborating with cross-functional teams during on-call rotations.

EDUCATION QUALIFICATION

2014-2018 B.Tech , CSE

Achariya College of Engineering Technology,
Puducherry

2012 SSLC | 2014 HSC

Amalorpavam Higher Secondary School,
Puducherry