



vijay49m@gmail.com



6301773727



Hyderabad, Telangana 507001

## EDUCATION

Master of Technology, Power Electronics

**VNR VJIET**, Hyderabad, India  
November 2018

Bachelor of Technology, EEE  
**SBIT**, Khammam, India  
May 2015

# VIJAYARAMARAO SIRIGIRI

Devops engineer

## PROFESSIONAL SUMMARY

AWS Certified DevOps Engineer with 5+ years of experience designing scalable cloud infrastructure and automating CI/CD pipelines. Specialized in multi-tenant Kubernetes architectures, Infrastructure as Code, and maintaining 99.9%+ uptime in production environments. Proven track record of reducing deployment time by 70% and infrastructure costs by 30% through automation and optimization.

**Core Expertise:** AWS • Terraform • Kubernetes/EKS • Multi-tenant Architecture • CI/CD Automation • Site Reliability Engineering

## SKILLS

AWS (EC2, EKS, ECS, VPC, IAM, CloudFormation, Lambda, S3, RDS, ALB)



Container Orchestration: Kubernetes, Docker, Helm



GitLab CI/CD, GitHub Actions, Jenkins, TeamCity, Bitbucket Pipelines



Python, Boto3, Bash scripting



Infrastructure as Code: Terraform, AWS CloudFormation, Python



Multi-tenant EKS cluster management



ArgoCD (GitOps), AWS CodePipeline



Linux (CentOS, Ubuntu, RHEL), Windows



## WORK HISTORY

May 2022 - Current

**ZS Associates - DevOps Engineer**, Pune, India

- Architected and implemented multi-tenant EKS clusters for 50+ applications by developing reusable Terraform modules automating the provisioning of all required AWS resources.
- Designed comprehensive CI/CD pipelines for EKS deployments using Bitbucket, TeamCity, ArgoCD, and Helm, reducing deployment time from 4 hours to 45 minutes.
- Built automated ECS Fargate deployment pipeline leveraging Bitbucket, AWS CodePipeline, ECR for container registry, and ECS for container orchestration with automated scaling.
- Automated Docker image lifecycle management with secure promotion workflows and ECR registry policies.
- Established GitOps workflows with ArgoCD for automated Kubernetes application deployment across development, staging, and production environments.

- Created standardized Helm charts for 30+ microservices with automated manifest templating and versioning
- Integrated Wiz security scanning across both EKS and ECS pipelines for automated vulnerability assessment and security compliance.
- Implemented secure secrets management on EKS by integrating AWS Secrets Manager with Kubernetes via External Secrets Operator, enabling seamless sync to Kubernetes Secrets and environment variables with zero security incidents.
- Enhanced EKS cluster security and networking by implementing Cilium for fine-grained network policies and pod-level IP management, ensuring controlled traffic flow and improved observability.
- Implemented NGINX Ingress Controller on EKS to manage HTTP/HTTPS routing via Kubernetes Ingress resources, enabling path-based and host-based routing with a single load balancer for efficient service exposure.
- Configured Kubernetes Metrics Server on EKS to collect real-time CPU and memory usage metrics, enabling Horizontal Pod Autoscaler (HPA) to scale workloads dynamically based on resource utilization thresholds.
- Implemented Karpenter on EKS to replace Cluster Autoscaler, enabling faster and more cost-efficient node provisioning based on real-time pod requirements, improving scaling performance for dynamic workloads optimizing resource utilization and reducing costs by 25%.
- Optimized EKS storage and networking stack by configuring AWS EFS and EBS CSI Drivers for shared and dedicated persistent storage, while managing CoreDNS and Kube-Proxy to ensure reliable service discovery, internal routing, and load balancing across the cluster.
- Implemented Prometheus and Grafana on EKS to enable comprehensive cluster and application monitoring, providing real-time metrics visualization, alerting, and capacity planning dashboards for improved operational insights and reliability.
- Achieved 99.9% system uptime through comprehensive monitoring using Prometheus and Grafana for EKS clusters, and Splunk for centralized logging across both platforms.
- Configured CloudWatch monitoring and alerting for ECS infrastructure with Splunk integration for application-level observability.
- Troubleshoot and resolved complex Kubernetes issues including pod failures, networking problems, and resource optimization using kubectl and log analysis
- Reduced mean time to resolution (MTTR) by 60% through automated monitoring, alerting, and incident response procedures.
- Implemented automated security scanning workflows with policy-based deployment gates and compliance reporting.
- Configured AWS CloudTrail and VPC FlowLogs for comprehensive audit trails and security monitoring.

**Technologies:** AWS (EKS, ECS Fargate, EC2, ECR, CodePipeline, S3, IAM, VPC, ALB, Route53), Terraform, Kubernetes, Docker, Helm, Bitbucket, TeamCity, ArgoCD, Python/Boto3, Wiz Security, Prometheus, Grafana, Splunk.

April 2021 - May 2022

**Engro Technologies Private Limited - Associate Cloud Engineer**, Hyderabad, India

- Developed and maintained AWS ECS CI/CD pipelines in GitLab and Jenkins for automated build, test, and deployment workflows, enabling rapid and reliable application delivery.
- Automated provisioning and deployment of ECS Fargate clusters, services, and tasks using Terraform integrated with GitLab CI/CD pipelines.
- Built and managed Docker containers by writing optimized Dockerfiles; integrated Docker builds within GitLab and Jenkins pipelines to enable

scalable continuous delivery.

- Integrated containerized applications with AWS ECS, orchestrating deployment strategies including blue-green and rolling updates to ensure zero downtime.
- Managed source code versioning, branching, and tagging using Git, GitLab, and GitHub to support CI/CD pipelines.
- Created and maintained Amazon Machine Images (AMIs) for seamless deployment with Elastic Load Balancers and Auto Scaling groups.
- Configured VPC peering to enable secure and efficient communication between multiple VPCs.
- Designed architecture diagrams and performed cost estimations across environments (QA, UAT, Prod) by evaluating various AWS service configurations.
- Hosted static websites on AWS S3 with CloudFront integration, delivering low-latency content via global edge locations.
- Conducted log analysis and maintained production server error reports; managed Amazon RDS databases and monitored infrastructure health via CloudWatch and SNS.
- Established and maintained monitoring and alerting for production servers and storage, tracking critical metrics (CPU, memory, disk usage, HTTP response) with CloudWatch.
- Collaborated with developers to implement transactional messaging and email workflows using AWS SNS, SMS, and SES services.
- Proficient in core AWS services including EC2, VPC, S3, RDS, Load Balancers, Auto Scaling, ECS, CloudFront, CloudWatch, SNS, SQS, SES, ACM, and Route 53.

**Technologies:** AWS (ECS, EC2, RDS, S3, CloudFront), Terraform, Docker, GitLab CI/CD, Jenkins, CloudWatch

February 2021 - April 2021

**ZEE Entertainment Enterprise Limited - Associate Cloud Engineer**, Hyderabad, India

- Designed and executed robust CI/CD workflows leveraging Jenkins and GitLab pipelines to automate application builds, testing, and deployments on AWS ECS.
- Utilized Terraform to automate the creation and management of ECS Fargate infrastructure, ensuring scalable and consistent environment provisioning.
- Developed and maintained containerization best practices by crafting efficient Dockerfiles and integrating container builds within continuous integration pipelines.
- Coordinated seamless application releases on ECS using deployment techniques like rolling updates and canary deployments to enhance system availability and reliability.

April 2019 - December 2019

**Hallmark Global Technologies - Linux Administrator**, Hyderabad, India

- Strong knowledge of Red Hat Linux (RHEL) administration.
- Managing user and group administration including creating, modifying, and deleting user accounts.
- Controlling file access with special permissions (SUID, SGID, Sticky Bit) and Access Control Lists (ACL).
- Managing file permissions and file systems (ext4, XFS, SWAP, and proc).
- Configuring and managing LVM volumes, including resizing and establishing volumes on the host.
- Performing backup and restore processes using TAR and ZIP.
- Installing software on Linux using RPM, YUM, and DNF package managers.

- Configuring NFS server for file and folder sharing between multiple Linux servers.
  - Configuration and administration of SSH and FTP servers.
  - Auditing network performance, security, and troubleshooting in Linux environments.
  - Installing and configuring various applications in CentOS and Ubuntu Linux environments.
  - Installing and configuring Apache web server.
  - Monitoring servers through Amazon CloudWatch and SNS.
  - Taking monthly snapshots for backup purposes.
- 

## **CERTIFICATIONS**

AWS Certified Solutions Architect - Associate (SAA) – Validation  
Number:0YRZ1BKLMF1E1E5N

HashiCorp Certified: Terraform Associate certification.