Yugandhar Suthari

Sr Cloud Platform Engineer

Address Apex, NC 27502

Phone 956-365-9644

E-mail yreddy.adz@gmail.com

LinkedIn https://www.linkedin.com/in/suthari

Technical consultant with 19 years of experience in the Finance, Media, Telecom, Insurance & publishing industry. Skilled in Cloud Security, Linux Administration, Infrastructure provisioning, Configuration Management, Container Management, Virtual Machine Deployment, Log Management & Analysis, Continuous Integration, Continuous Deployment, vulnerability and security management, DevSecOps, Vault Implementation, Site Reliability Engineering, Cloud Architecture & Implementations, Well-Architected Framework reviews and Certified in AWS, Azure & GCP.

Skills

- Cloud Platforms: AWS, GCP, Azure

- Config Management: Ansible , CHEF

- SCM: GitHub , Bitbucket , Gitlab

- CI/CD: Jenkins, Concourse, Azure DevOps, Github Actions

- IaC: Terraform, Cloud Formation, ARM templates

- Monitoring & Logging : Prometheus, Grafana, ELK , Splunk, Datadog

- Security Tools: Checkmarx , SonarQube, Anchore , Synk , Veracode , Qualys , Aqua Security, OPA

- Secret Management: Hashicorp Vault, Azure KV, AWS Secrets Manager

- Containers: Docker , Kubernetes , Helmcharts

- Databases: MongoDB , Oracle , DynamoDB

- Cloud Security & Compliance: Prisma Cloud , Security Monkey, Cloud Custodian

- Languages: Python, Shell scripting, Groovy, Powershell

Work History

Cloud Security Engineer

Oct 2024 - Current

Cisco Systems, Inc., Raleigh, NC

- **Designed and implemented cloud security guardrails** across **15,000+ AWS, Azure, and GCP accounts**, ensuring compliance enforcement and real-time risk mitigation at scale.
- **Deployed and managed Wiz agents across cloud workloads and containers**, enabling **continuous security scanning, vulnerability detection, and misconfiguration remediation**.
- **Built GitHub Actions pipelines to automate security guardrail deployment**, integrating with **Google Cloud Run, Cloud Functions, Pub/Sub, Log Sinks, and AWS CloudFormation StackSets** for multi-cloud automation.
- **Automated least-privilege access enforcement** and **role-based security controls**, preventing excessive permissions and reducing attack surfaces across cloud environments.
- **Implemented centralized security logging and threat detection**, leveraging **GCP Log Sinks, Azure Monitor, and AWS-native logging solutions**, ensuring continuous monitoring and compliance tracking.

Sr Platform Security Engineer

Sep 2023 - Sep 2024

Consulting With BCG, Apex, NC

- **Architected and deployed HashiCorp Vault**, establishing a centralized secrets management platform for multi-cloud environments.
- Designed and developed **Terraform modules and an onboarding framework** to automate Vault namespace provisioning, ensuring scalability and security compliance.
- Implemented **GitHub Actions pipelines** to automate the onboarding of applications and teams to Vault, enforcing policy-based access controls.
- Designed and enforced **fine-grained ACL policies** for Vault, ensuring least-privilege access and secure authentication mechanisms.
- **Integrated Vault with Okta via OIDC authentication**, automating role-to-group mappings for seamless identity-based access control.
- Configured and managed **dynamic database secrets** for **PostgreSQL, MongoDB Atlas, MySQL, and Oracle**, eliminating the need for static credentials and enhancing security posture.
- Developed **Python HVAC scripts and shell automation** to provide reusable code snippets and tooling for secure secret retrieval from Vault.
- **Partnered with EKS platform teams** to integrate **Kubernetes authentication with Vault**, enabling automated service-to-service authentication and secrets injection.
- Designed and deployed **Octopus Deploy templates** for securely pulling secrets from Vault into CI/CD pipelines, ensuring compliance with security policies.
- Built **Datadog dashboards for Vault monitoring**, providing real-time insights into authentication trends, secrets usage, and system performance.

- Configured **centralized logging and audit trails** for Vault, enabling proactive security incident detection and compliance reporting.
- Authored **comprehensive documentation and knowledge articles**, streamlining onboarding, troubleshooting, and best practices for secrets management and platform security.

Sr Cloud Platform Engineer

Jul 2019 - Dec 2023

Consulting With Comcast, Philadelphia, PA

- **Migrated HashiCorp Vault with Consul backend** from three on-prem data centers to **AWS Vault with Raft Storage**, improving scalability and reliability.
- **Designed and implemented Vault Disaster Recovery (DR) and Performance Standby** in AWS to enhance system resilience and failover capabilities.
- **Enforced the principle of least privilege** across **700+ AWS accounts** using **Aardvark & Repokid**, automating IAM role right-sizing and access control.
- Developed **AWS Lambda functions** to automate Vault **data backups**, ensuring secure and efficient storage.
- Designed and implemented **vulnerability scanning** across **AWS, GCP, and Azure** using **Security Monkey**, strengthening cloud security posture.
- **Managed AWS GuardDuty**, proactively identifying and mitigating security threats through continuous monitoring and automated remediation.
- Configured **AWS Config and custom compliance rules** to track resource changes, ensuring adherence to security and governance policies.
- **Developed CloudTrail-based alerting** for real-time detection of unauthorized access, integrating with SIEM solutions for security operations.
- Managed **AWS Security Hub**, centralizing security findings and orchestrating automated security response workflows.
- Conducted **regular security audits and compliance assessments** to ensure adherence to **NIST, CIS, and company security standards**.
- **Designed and implemented Enterprise Secret Management** using **HashiCorp Vault**, enabling secure credentials storage across multi-cloud environments.
- Conducted proof-of-concept (POC) evaluations for Palo Alto Prisma Cloud, focusing on its capabilities in managing cloud security posture.
- Developed **Terraform modules and CloudFormation templates** to provision secure AWS, GCP, and Azure environments at scale.
- **Implemented Azure AD OpenID Connect-based Single Sign-On (SSO)** for internal applications, streamlining authentication and access management.
- Built **CI/CD pipelines** using **GitHub Actions, Jenkins, and AWS CodeDeploy** to deploy **Lambda, EC2, Elastic Beanstalk, and ECS** applications.
- Developed **Ansible playbooks and roles** to configure cloud workloads, including **Datadog agent setup, server provisioning, and Golden AMI creation** with Packer.
- Automating the deployment of an ELK cluster on AWS using Terraform, Ansible, and Concourse CI improves log aggregation and monitoring.
- Designed **SLIs, SLOs, and SLAs** for **Vault**, ensuring high availability and performance monitoring.

- Conducted **incident post-mortems**, analyzing system outages to implement **preventative measures and improve operational resilience**.
- **Developed Grafana dashboards and alerting mechanisms** to monitor critical cloud resources and services.
- **Integrated Anchore container scanning** into CI/CD pipelines, securing images stored in private Docker registries.
- **Wrote custom AWS Config rules in Python** to detect security threats and enforce compliance policies.
- **Architected and implemented Blue/Green deployments** for **AWS ECS** using **AWS CodeDeploy**, reducing downtime and improving deployment safety.
- Configured **AWS Batch Jobs** to automate **ETL data processing**, ensuring efficient and scalable data transformations.

Sr DevSecOps Engineer

May 2018 - Jul 2019

Consulting With Barclays, Delaware City, DE

- **Designed and implemented a scalable Jenkins Master-Slave architecture** using **Chef**, ensuring efficient CI/CD orchestration.
- **Developed Docker images** for Jenkins **masters and slave agents**, optimizing deployment within the **OpenShift PaaS environment**.
- **Architected a Terraform framework** to automate and standardize infrastructure provisioning on **AWS**, improving scalability and maintainability.
- I **created Chef cookbooks** to **automate the configuration and management of servers in AWS**, which **streamlined the deployment of infrastructure.**
- **Built a migration framework** for transitioning **private cloud-based containers to AWS ECS**, ensuring a seamless and secure migration process.
- **Configured AWS CloudWatch logs** for real-time monitoring and centralized logging of **containers running in ECS**, improving observability.
- **Performed POC and successfully deployed HashiCorp Vault in AWS**, establishing a secure and scalable secrets management solution.
- **Developed Jenkins pipelines** to automate container deployments to AWS ECS, improving deployment efficiency and reducing manual intervention.
- **Created Helm charts** for deploying containers on **OpenShift**, enabling streamlined Kubernetes application management.
- **Designed and implemented monitoring dashboards** using **Prometheus and Grafana**, providing real-time infrastructure and application performance insights.
- **Provided on-call support on a rotational basis** for release management, ensuring system stability and timely issue resolution.

Sr. Cloud Engineer

Nov 2016 - Apr 2018

Consulting With Meredith Corporation, New York, NY

- **Designed and implemented CloudFormation templates** to provision **private VPCs** across **Dev, QA, Staging, and Production environments**, ensuring a secure and scalable cloud architecture.
- **Established a CI/CD pipeline workflow**, enabling developers to **check in code to GitHub** and trigger automated deployments.

- **Engineered an S3 migration workflow** to seamlessly transfer **Mezz video content** from **Brightcove to in-house storage**, optimizing cost and performance.
- **Implemented Jenkins for CI/CD automation**, ensuring seamless integration and deployment upon code commits to the integration environment.
- **Developed and maintained Ansible playbooks** for automating **server provisioning, application installations, and updates**, reducing manual effort.
- **Automated application deployments** to **AWS Elastic Beanstalk and EC2**, streamlining infrastructure management.
- **Configured AWS CloudWatch Logs** for centralized monitoring and integrated **PagerDuty & Slack** for real-time alerting and incident response.
- **Provided scheduled on-call support**, troubleshooting and resolving infrastructure and deployment issues to maintain high availability.
- **Deployed and managed MongoDB instances** for **archival metadata storage of video assets**, optimizing data retention strategies.
- **Developed AWS Lambda functions** to automate **daily MongoDB backups**, ensuring data integrity and disaster recovery readiness.
- **Mentored and provided technical guidance** to engineering peers, fostering knowledge transfer and best practices in cloud automation.
- **Deployed and managed observability tools** such as **New Relic, PagerDuty, Elasticsearch, and CloudWatch**, enhancing system monitoring and performance visibility.

Oct 2010 - Oct 2016   Cloud Engineer

Consulting With HBO , New York, NY

- **Designed and automated AWS cloud infrastructure** using **EC2, Auto Scaling, ELB, and AMIs**, ensuring high availability and fault tolerance.
- **Implemented Infrastructure as Code (IaC) with Ansible and AWS CloudFormation**, automating **VPC, subnets, security groups, and server provisioning**.
- **Developed and optimized CI/CD pipelines** with **Jenkins, Python scripting, and Ansible**, streamlining deployment of **cloud-based applications**.
- **Managed and automated large-scale Ubuntu Linux deployments** using **Ansible playbooks**, reducing configuration drift and operational overhead.
- **Configured and secured Amazon S3 storage**, implementing **versioning, lifecycle policies, and Glacier archiving** for backup and cost efficiency.
- **Installed, configured, and managed MongoDB databases**, ensuring high availability and performance optimization for critical applications.
- **Enforced security best practices** by managing **AWS IAM roles, policies, and access controls**, ensuring compliance with organizational standards.
- **Implemented centralized monitoring and alerting** using **CloudWatch, SNS, SQS, and PagerDuty**, enabling proactive incident response.
- **Configured and optimized Elastic Load Balancers (ELB) with EC2 Auto Scaling groups**, ensuring seamless traffic distribution and high availability.
- **Automated operational tasks with Python, Perl, and Shell scripting**, improving system monitoring, log management, and resource optimization.

Mar 2008 -
Sep 2010

Supervisor Quality

Computer Sciences Corporation, Hyderabad, India

- **Designed, deployed, and managed AWS cloud infrastructure**, supporting **200+ cloud instances** while automating provisioning with **Ansible, Python, and Bash scripting** to ensure scalability and reliability.
- **Implemented fault-tolerant, cost-effective cloud architectures** using **EC2, Auto Scaling, ELB, and CloudFormation**, enhancing system performance and availability.
- **Developed and automated infrastructure and application deployments** with **CI/CD pipelines, Python, Perl, and Shell scripting**, reducing manual overhead and improving operational efficiency.
- **Designed and implemented monitoring, logging, and alerting solutions** using **AWS CloudWatch, SNS, SQS, and CloudFormation**, ensuring proactive security and compliance.
- **Led functional, performance, and backend testing efforts**, developing and executing **test cases, automation scripts (Selenium, QTP, SOAPUI), and database tests (Oracle, MongoDB)** to ensure system integrity.
- **Collaborated with engineering, QA, and operations teams** to review specifications, validate deployments, troubleshoot defects, and optimize DevOps workflows, improving system quality and deployment success rates.

Apr 2007 -
Mar 2008

Software Engineer

GE Energy , Hyderabad, India

- **Gathered and analyzed requirements from analysts**, ensuring accurate implementation of application functionality and configurations.
- **Installed, configured, and maintained automated test environments**, streamlining testing workflows and improving efficiency.
- **Designed, developed, and automated smoke test scenarios**, reducing manual testing efforts and enhancing early defect detection.
- **Executed and validated RTU channel switching tests**, ensuring seamless communication and interoperability between RTUs.
- **Deployed applications, managed testing workflows, and provided detailed reports in weekly status meetings**, driving continuous improvements in system reliability.

Education

Sep 2001 -
Dec 2005

Bachelor of Science: Computer Science

Jawaharlal Nehru Technological University, B.Tech in Computer Science & Information Technology - Hyderabad, India

Certifications

◆	**Jan 2025**	Google Cloud Security Professional
◆	**Feb 2025**	Azure Solutions Architect Expert
◆	**Feb 2025**	AWS Certified Solutions Architect - Professional
◆	**Feb 2025**	Certified Kubernetes Administrator
◆	**Nov 2015**	Linux Essentials Engineer
◆	**May 2019**	Certified HIPAA Privacy Associate (CPHA)
◆	**Feb 2023**	HashiCorp Certified: Vault Associate