 

 **Sridhar Nakka**. **MBA(IT), AMIE(I), Chartered Engineer(India).**

**Cloud | Infra | DevOps | Site Reliability Engineer**

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**OBJECTIVE:**

* **Expertise in Cloud Engineering:** With 15+ years in IT and certifications in ITIL, Red Hat Linux, AWS, Azure, and GCP, I specialize in developing robust cloud infrastructure security strategies. My focus is on safeguarding mission-critical applications across both private and public multi-cloud environments, utilizing advanced security code elements tailored for Kubernetes. This ensures comprehensive protection and compliance across the cloud spectrum.
* **Proven Leadership in Hybrid Multi-Cloud Security:** My career highlights include leading the security aspect of enterprise-wide hybrid multi-cloud strategies, emphasizing automation, and compliance. I've successfully designed and implemented security frameworks that establish strong security postures, enabling secure digital transformation efforts.
* **Commitment to Innovation and Operational Excellence:** Eager to leverage my deep expertise in cloud platforms such as Azure, GCP, OCI, and AWS, I aim to drive innovation and continuous improvement in cloud infrastructure and security practices. My goal is to deliver impactful, scalable security solutions that align with organizational objectives and mitigate risks effectively.

**PROFESSIONAL SUMMARY:**

* **Over 10+ years of hands-on experience** in SRE, Cloud, and DevOps roles, specializing in the management & optimization of cloud infrastructures across major platforms including Azure, GCP, & AWS. I bring deep experience across the full SDLC, particularly in cloud-native environments. On the backend, I’ve worked with Python for scripting, infrastructure automation, and REST API development — including projects using Flask and FastAPI. On the frontend, I’ve built dashboards and internal tools using Vue.js integrated with cloud-based APIs. My CI/CD expertise spans Azure DevOps, Jenkins, GitHub Actions, and GitOps workflows using Helm and Tekton. I’ve also worked with Kafka and RabbitMQ for real-time data handling. While Linux is my core platform, I’ve supported mixed environments with Windows as well. My approach combines strong DevOps practices with full-stack agility, always aligned to scalable and secure deployments. As a hands-on engineering leader, I bring deep experience building automation and observability solutions for large-scale cloud infrastructure and data platforms. While my core expertise lies in cloud DevOps and infrastructure as code, I have supported and optimized PySpark pipelines, built Python-based observability layers, and contributed to testing and deployment of data transformation pipelines on AWS and Azure. I bridge DevOps and data engineering teams to deliver scalable, reliable, and secure data solutions.
* **Proficient in designing, implementing, and managing cloud-based solutions** on Azure, GCP, OCI and AWS, with a deep understanding of cloud architecture principles and best practices.
* **Advanced expertise in Infrastructure as Code (IaC)** using tools like Terraform and Cloud Formation, including extensive experience with Terraform Sentinel for writing custom rules and policies to enforce security and compliance standards within cloud environments.
* **Skilled in container orchestration** with Kubernetes, Docker, and related containerization technologies, enhancing deployment efficiency and scalability.
* **Proven ability to automate tasks and workflows** with scripting languages (Python, Bash), significantly improving operational workflows and reducing manual intervention.
* **Experienced in setting up, monitoring, and managing CI/CD pipelines**, ensuring seamless software delivery and integration processes.
* **Robust knowledge and application of Service Control and Security Policies** for cloud environments, particularly in GCP, with a strong understanding of security policy implementation in Azure and AWS as secondary preferences. This includes crafting and applying comprehensive security policies to safeguard cloud resources and data.
* **Cloud engineering experience across the top public clouds** (AWS, GCP, Azure, OCI), focusing on deploying and managing scalable, secure, and resilient cloud architecture.

**SKILLS:**

|  |  |
| --- | --- |
| Hardware | Exadata, Sun Sparc, HP Proliant ML, DL. Dell, IBM and Cisco KVM & Cisco UCS. |
| Operating Systems | Linux (RHEL/Oracle Ent Linux/Suse/Ubuntu/Fedora/CentOS), Solaris, Windows |
| Middleware | Apache, Tomcat, Weblogic & Jboss |
| Clusters | Linux Clusters, VERITAS Clusters and MS Cluster. |
| Architectures | x86 and x86\_64 bit, IBM & Sun SPARC. |
| Scripting & Programming | Shell, Terraform, Yaml, Python, PyCharm, PyTest, Java Script, NodeJs, GoLang, VueJs. |
| Monitoring Tools | ELK Stack, Demisto, Cloud Watch, Prometheus/Grafana, AWS Cloud Trail, Splunk, SCOM, HP NNM. |
| Cloud | Amazon Web Service (AWS), Google Cloud Platform (GCP) and Azure Cloud. |
| Testing & Code Quality |  Junit, SonarQube, Checkmarx, OWASP ZAP, Nessus, Veracode, Clair, TerraScan,  |
| Compliance Security Tools |  Qualis, Nessus, Inspec, **Siemplify, KeyCloak, Auth0, Checkmarx.** |
| Storage | NetApp, EMC, IBM, HP, Actifio (Backup&Recovery product). |
| Virtualization | VMware, RHEVM, MS Virtual PC, Hyper-V & Xenserver, Denode |
| VCS(CI/CD) | Git, GitHub, JFrog, Maven, Pipeline, CodeBuild, CodeCommit, Harness. |
| DBMS | MySQL, Oracle, PostgreSQL, Dynamo DB, Aurora, Bigtable, Informatica, Snowflake |
| Issue Tracking tools | Service Now, IBM Remedy, ITIM, Observability and Grafana. |
| DevOps | EKS, AKS, GKE, Docker, Kubernetes, Jenkins, Ansible, Chef, Puppet and Vagrant. |

**EXPERIENCE**

**BrightSpeed, Charlotte. Apr 2024 to Present.**

**Cloud & DevOps Architect Lead.**

* Led the design and implementation of enterprise-grade cloud architectures on AWS, aligning solutions with Well-Architected Framework pillars (security, reliability, performance, cost, and operations).
* Developed lightweight internal REST APIs using Python Flask, integrated with AWS Lambda and DynamoDB for automation and data services. Familiar with Django and FastAPI for microservice development and secure API structuring.
* Supported and debugged production applications on both Linux and Windows servers, leveraging logging tools (e.g., Splunk, ELK) and scripting (Python, Bash, PowerShell) to resolve cross-platform issues efficiently.
* Directed multi-account AWS environments using Control Tower, Service Catalog, and AWS Organizations to enforce governance, security, and cost management policies.
* Deployed and managed Azure Kubernetes Service (AKS) clusters with integrated Helm charts, Azure DevOps CI/CD pipelines, and Azure Monitor for observability, supporting scalable microservices architecture.
* Provisioned and maintained Azure SQL Database instances with automated backups, role-based access control (RBAC), and performance tuning using Query Performance Insights and Azure Defender for SQL.
* Designed and deployed cloud-native solutions integrating Azure API Management (APIM), Azure Front Door, and Event Grid to provide secure, scalable API gateways and event-driven messaging for distributed workloads.
* Implemented Azure CosmosDB and Azure SQL Database with automated provisioning, backup policies, and role-based access controls using Azure Active Directory (AAD) integration.
* Built robust ETL pipelines using Azure Data Factory (ADF) to orchestrate data movement across SQL, Blob Storage, and CosmosDB, ensuring high availability and data integrity.
* Enforced security and access governance by integrating applications with AAD, implementing conditional access policies, enterprise app SSO, and RBAC across all Azure resources.
* Integrated GCP IAM with Workload Identity Federation and OIDC-based access models to streamline secure service-to-service communication.
* Provided infrastructure support for large-scale Hadoop (HDFS) and Apache Spark clusters across hybrid cloud environments (AWS, Azure, GCP).
* Collaborated with data engineering teams to develop and optimize PySpark-based data pipelines on AWS EMR and Azure Synapse, enabling large-scale data processing for reporting and analytics.
* Developed Python modules to enhance pipeline observability, logging, and instrumentation, integrating with Grafana, Prometheus, and ELK Stack for real-time data job insights.
* Automated validation, exception handling, and retry logic in ETL pipelines, improving resilience and fault-tolerance in batch and streaming data workflows.
* Contributed to the design of reusable testing frameworks and DevOps pipelines for CI/CD deployment of data engineering components using GitLab CI and Azure DevOps.

**Environment**: AWS, GCP and Azure, Terraform, Jenkins, GitLab CI/CD, GitHub, Docker, Red Hat Linux

**Experian, CA Oct 2023 to Mar 2024.**

**Cloud Architect | DevOps Engineer.**

* Utilized step functions and Terraform for infrastructure and API development.
* Experienced in GitHub Actions, Workflows, Standardization.
* Designed and deployed enterprise solutions on AWS using low-code platforms (e.g., AWS Honeycode, AppFlow, Step Functions) integrated with Lambda, API Gateway, S3, and DynamoDB to accelerate application delivery with minimal custom code.
* Developed scalable, event-driven architectures on AWS by combining cloud-native services and low-code automation workflows, significantly reducing development time for internal tools, APIs, and business logic orchestration.
* Managed multiple OpenShift clusters across environments using Red Hat Advanced Cluster Management (ACM) for unified visibility, policy governance, and cluster lifecycle operations.
* Automated OpenShift cluster registration and applied security policies across development and staging clusters via ACM policy framework.
* Designed and implemented Tekton Pipelines in OpenShift for building, testing, and deploying containerized applications, supporting GitOps workflows and reducing CI/CD latency.
* Integrated Tekton with Git repositories and container registries (e.g., Quay, ECR) to support fully automated deployment pipelines on OpenShift.
* Deployed and managed Kubernetes applications using Helm charts, enabling templated, repeatable deployments of microservices and middleware stacks.
* Customized Helm values for different namespaces/environments (dev, staging, prod) as part of IaC and GitOps-based delivery pipelines.
* Developed and maintained RESTful APIs, focusing on automated unit testing and ensuring code quality.
* Created and managed repositories for personal projects, showcasing skills in version control and project management.
* Collaborated with remote team members using GitHub's collaboration features such as pull requests, issues, and project boards, ensuring efficient communication and task management.
* Implemented the automation of API Gateway solutions in AWS using Terraform, contributing to the seamless management of AWS Service Catalog, REST, and HTTP API Enterprise Gateway with Okta Authentication.
* Developed and maintained backend services and microservices using Go for scalable and high-performance applications.
* Implemented RESTful APIs and web services using Go's standard HTTP package.
* Familiarity with popular Go frameworks such as Gin, Echo, and Beego for web development.
* Explored integration of Spark and system metrics into InfluxDB + Telegraf pipelines for advanced time-series monitoring.
* Demonstrated project management and architectural prowess in cloud environments, particularly with Rancher/Kubernetes in AWS and OCP, driving technical excellence and innovation.

**Environment**: AWS, GCP and Azure, Terraform, Jenkins, GitLab CI/CD, GitHub, Docker, Red Hat Linux

**Texas Health and Human Services Commission (HHSC), TX Apr 2023 to Sep 2023.**

**Cloud Architect | DevOps Engineer.**

* Managed cross-functional teams of cloud engineers, DevOps, and security professionals to deliver scalable and secure AWS-based applications across development, staging, and production.
* Designed and implemented a secure, multi-account AWS Landing Zone using AWS Control Tower, aligning with AWS best practices for enterprise-scale cloud adoption.
* Managed multiple OpenShift clusters across environments using Red Hat Advanced Cluster Management (ACM) for unified visibility, policy governance, and cluster lifecycle operations.
* Automated OpenShift cluster registration and applied security policies across development and staging clusters via ACM policy framework.
* Deployed and managed Azure Kubernetes Service (AKS) clusters with integrated Helm charts, Azure DevOps CI/CD pipelines, and Azure Monitor for observability, supporting scalable microservices architecture.
* Provisioned and maintained Azure SQL Database instances with automated backups, role-based access control (RBAC), and performance tuning using Query Performance Insights and Azure Defender for SQL.
* Developed lightweight internal REST APIs using Python Flask, integrated with AWS Lambda and DynamoDB for automation and data services. Familiar with Django and FastAPI for microservice development and secure API structuring.
* Supported and debugged production applications on both Linux and Windows servers, leveraging logging tools (e.g., Splunk, ELK) and scripting (Python, Bash, PowerShell) to resolve cross-platform issues efficiently.

 **Environment**: AKS, Azure CLI, Azure Resource Manager (ARM), Cluster API, CAPI, CAPZ, Azure DevOps pipelines, YAML Scripts, Git, CI/CD pipelines, Jenkins, Harness, Artifactory, Oracle Cloud Infrastructure (OCI), Google Cloud Platform (GCP), Terraform.

**IBM / Kyndryl India Ltd. July 2012 to Mar 2023.**

**Clients: Chubb,WPP,NIH-CIT, ABB,Walmart,Telstra**

**Cloud Architect | DevOps Engineer.**

* Led the design and implementation of enterprise-grade cloud architectures on AWS, aligning solutions with Well-Architected Framework pillars (security, reliability, performance, cost, and operations).
* Directed multi-account AWS environments using Control Tower, Service Catalog, and AWS Organizations to enforce governance, security, and cost management policies.
* Managed cross-functional teams of cloud engineers, DevOps, and security professionals to deliver scalable and secure AWS-based applications across development, staging, and production.
* Implemented CI/CD pipeline with Jenkins & Harness.
* Experience integrating Artifactory for images, 3rd party libraries and other artifacts.
* Managed multiple OpenShift clusters across environments using Red Hat Advanced Cluster Management (ACM) for unified visibility, policy governance, and cluster lifecycle operations.
* Automated OpenShift cluster registration and applied security policies across development and staging clusters via ACM policy framework.
* Deployed and managed Azure Kubernetes Service (AKS) clusters with integrated Helm charts, Azure DevOps CI/CD pipelines, and Azure Monitor for observability, supporting scalable microservices architecture.
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* Designed and implemented Tekton Pipelines in OpenShift for building, testing, and deploying containerized applications, supporting GitOps workflows and reducing CI/CD latency.
* Designed and deployed cloud-native solutions integrating Azure API Management (APIM), Azure Front Door, and Event Grid to provide secure, scalable API gateways and event-driven messaging for distributed workloads.
* Implemented Azure CosmosDB and Azure SQL Database with automated provisioning, backup policies, and role-based access controls using Azure Active Directory (AAD) integration.
* Built robust ETL pipelines using Azure Data Factory (ADF) to orchestrate data movement across SQL, Blob Storage, and CosmosDB, ensuring high availability and data integrity.
* Integrated GCP IAM with Workload Identity Federation and OIDC-based access models to streamline secure service-to-service communication.
* Led the migration initiative to transition on-premises infrastructure and workloads from AWS to Oracle Cloud Infrastructure (OCI).
* Implemented deployment strategies such as blue-green deployments, rolling deployments, and canary deployments in Octopus Deploy.
* Collaborated with infrastructure, development, and platform teams to enforce access controls and CI/CD integration across compute clusters.
* Conducted vulnerability assessments using Tenable Nessus to identify security risks across Linux, Windows, and cloud environments; collaborated with DevSecOps teams to prioritize remediation and ensure compliance with PCI, HIPAA, and DFARS standards.
* Deployed and maintained Trend Micro Deep Security and Apex One for host-based intrusion prevention (HIPS), anti-malware, and real-time monitoring across on-prem and cloud-based infrastructure.
* Supported CI/CD pipelines and artifact management for Spark-based analytics workloads using Jenkins, GitLab CI/CD, and Artifactory.
* Explored integration of Spark and system metrics into InfluxDB + Telegraf pipelines for advanced time-series monitoring.
* Ensured compliance with access and control policies for HPC workloads during deployments and updates.
* Used JavaScript and Vue.js to build lightweight web interfaces for managing Terraform modules and cloud deployment status.
* Built internal full-stack proof-of-concept tools using Vue.js + Node.js stack to visualize cloud costs, alerts, and compliance metrics.
* Provided training and documentation for team members on Octopus Deploy best practices and usage guidelines.
* Implemented lift-and-shift, re-platforming, and cloud-native migration strategies based on application requirements and business objectives.
* Implemented web scraping scripts using BeautifulSoup and Selenium to gather data from websites for analysis.
* Experience with Hadoop ecosystem components - HDFS, YARN, MapReduce & cluster management tools like Ambari or Cloudera Manager, Pepper Data and related technologies.
* Implemented GitHub workflows and branching strategies to facilitate parallel development efforts and feature releases within development teams.

**Environment**: Docker, Kubernetes, Red Hat Linux, Satellite Servers, Shell Scripting, AWS, Azure and GCP.

**JP Morgan Chase. May 2011 to June 2012**

**Linux Administrator**

* Installation and Upgrades of VMware ESX/ESXi O.S. on bare metal hardware systems like **Dell, HP, IBM physical servers.**
* Worked on configuration of RAID disks on the physical servers and boot disks for ESX O.S.
* Prepared Cluster-in-box and Cluster-across-box MSCS setup between VMs.
* Worked on troubleshooting setup issues, test failures and root-causing the failures.
* Worked on reporting Bugs found, follow-up with Developers and closing the bugs once they are fixed.

 **Environment**: Red Hat Linux, IDM, Satellite Servers, Shell Scripting.

**Ericsson. Hyderabad. Apr 2010 to May 2011**

**Linux Administrator**

* Build & configure Solaris and Linux servers on various hardware types.
* Written shell scripts to automate the installation and configuration process.
* Activation & deactivation of SAN & NAS storage from host side.
* Storage migration from DMX to VMAX, MSS to EMC.
* Install, upgrade and configure VERITAS volume manager.

 **Environment**: Red Hat Linux, SLES, IDM, Satellite Servers, Shell Scripting.

**Moschip Semiconductors. Hyderabad. Jan 2009 to Apr 2010**

**Linux Administrator**

* Build & configure Solaris and Linux servers on various hardware types.
* Written shell scripts to automate the installation and configuration process.
* Activation & deactivation of SAN & NAS storage from host side.
* Storage migration from DMX to VMAX, MSS to EMC.
* Install, upgrade and configure VERITAS volume manager.

 **Environment**: Red Hat Linux, SLES, IDM, Satellite Servers, Shell Scripting.

**EDUCATION**

Master’s in IT Management from **All India Management Association**-2017

Bachelors in Computer Science and Engineering from **The Institution of Engineers (India)**-2013

Diploma in Electronics & Communication Engineering from **SBTET, OU** -2001

**CERTIFICATION & TRAINING**

**Certifications**: Red Hat Certified Engineer in Linux Administration. RHCE V4, V7.

 AWS Solutions Architect Associate.

 Azure 400, DevOps Solutions Architect.

 Google Certified Professional Cloud Architect.

 ITIL V3 Certified.