**GOWTHAM VINTHA**[togrv91@gmail.com](mailto:togrv91@gmail.com) | +1 (469)-498-0626

**PROFESSIONAL SUMMARY**

* DevOps professional with over 10 years of experience architecting and managing large-scale**, cloud-native** infrastructure platforms leveraging **CI/CD** and **DevOps and DevSecOps** process.
* Results-driven leader with a strong commitment to continuous improvement and excellence.
* Strong Knowledge in AWS with hands on experience in services like **EC2, ECS, S3, RDS, EBS, ELB, SNS, SQS, Auto-Scaling, Capacity Providers, AWS Transfer Family, Route53, Inspector, Guard Duty, SSM, Autoscaling, VPC, EFS, SES, Pinpoint, IAM, Route53, CloudWatch, Lambda and CloudFormation.**
* Experience in deploying multi-tier software architecture in virtual cloud infrastructure (**AWS** and **Azure Cloud**).
* Managed **EKS** **Kubernete**s clusters and deployed applications using **Helm** charts on AWS and on-premises.
* Proficient in troubleshooting, logging, and continuous learning, actively contributing to collaborative cross-functional teams, ensuring optimal Kubernetes utilization, and staying abreast of the latest advancements.
* Spearheaded the adoption of **Service Mesh** (**Istio**) to enhance microservices communication, security, and traffic management.
* Experience in working with various CI/CD tools like **Gitlab**, **Bamboo, Jenkins, Bitbucket, Subversion, Nexus Artifactory**
* Maintained and formulated automation plans for infrastructure provisioning using **IaC** tools like **Terraform** **Terragrunt**.
* Hands on experience in designing and implementing a centralized logging & monitoring solutions **Splunk**, **Fluent Bit**, **Prometheus** and **Grafana**.
* Experienced in infrastructure monitoring tools like **CloudWatch**, **Logic Monitor** and integrating Log analytics using **Logstash**, **Elasticsearch**, **Kibana**.
* Experienced in using **Nexus** and Artifactory Repository Managers for storing binaries, artifacts, and dependencies of the successful builds.
* Experience working on the Build Tool like **Maven** and **Ant** for the development of build artifacts on the source code.
* Established robust **DevSecOps** practices, incorporating **SAST, DAST, Container scanning, and secret detection** to proactively integrate security measures into the development process.

**TECHNICAL SKILLS**

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| --- | --- |
| **Tools/Interfaces** | Gitlab, Bamboo, Jenkins, Ansible, Docker, Fastlane, Kubernetes, Service mesh, ECS, Fargate, EKS, Nexus, Nagios, Prometheus, Grafana, AlertManager, Nginx, Fluentd, Splunk, Datadog, Tableau, ELK, Ansible, SonarQube, Addigy, Scrum, |
| **Programming/ Scripting** | Python, PowerShell, NodeJS, SQL, groovy, Shell-scripting, MakeFile, Helm, Yaml, CMake, Gradle, Maven, Fastlane, Notarytool |
| **Hardware/Cloud** | AWS, Azure Cloud, VMware, VIC |
| **SCM tools** | Gitlab, Bitbucket, GitHub, SVN, TFS |
| **Databases** | Mango, Redis, MSSQL, PostgreSQL, DynamoDB, HBase, Influx DB |
| **Networking** | Protocols (HTTP, HTTPS, DHCP, NFS, SMB (CIFS), TCP/IP, UDP, TFTP/FTP, SSL, SSH, TELNET, TLS), OSI Model |
| **System Administration** | MacOS, Linux (CentOS, Ubuntu), Windows (Server 2012, 2016, 2019) |

**CERTIFICATIONS & WORKSHOPS**

* AWS Certified Solution Architect Associate
* 70-473-Designing and Implementing Cloud Data Platform Solutions
* RedHat OpenShift Summit
* MS Cloud Immersion Experience: Kubernetes in Action on Azure
* Stanford Online Lagunita Certified SQL server Professional

**WORK EXPERIENCE**

**Role: Senior DevOps/DevSecOps Engineer**  
**Client: Avail Med Systems, Santa Clara, CA || September 2021 – Present**

**Roles & Responsibilities**:

* Lead the migration of infrastructure **EBS** stack to **EKS** stack on **AWS**, resulting in a 30% reduction in operational costs and improved scalability.
* Implemented and managed containerized applications using **AWS Elastic Container Servic**e (**ECS Fargate**), demonstrating expertise in orchestrating and scaling Docker containers to achieve optimal performance and reliability.
* Architected and managed **Kubernetes clusters**, ensuring high availability, security, and efficient resource utilization.
* Implemented **Service Mesh** using **Istio** to enhance micro services communication, monitoring, and security.
* Automated infrastructure provisioning, configuration management, and application deployments with tools like **Terraform** and **Ansible**.
* Innovated and executed the Build Once and Deploy Many (**BODM**) strategies, simplifying complex deployments, enforcing consistency across diverse environments, and fortifying system reliability.
* Engineered **Merge Request Integration Testing** (MRIT), empowering developers with pre-merge integration tests, and instilled the **GitFlow** methodology across all projects.
* Established **CI/CD** pipelines using GitLab and Jenkins for various tech stack projects (**Java**, **Node**, **Swift**) enabling the team to deliver software faster with fewer errors.
* Designed, deployed, and managed AWS infrastructure, ensuring high availability, scalability, and cost optimization.
* Developed and maintained Infrastructure as Code (IAC) using **Terraform**, **Terragrunt** keeping DRY reducing manual tasks and ensuring consistency in infrastructure provisioning.
* Led the implementation & management of Kubernetes clusters, optimizing deployment processes and scaling applications for increased performance and reliability.
* Implemented centralized helm charts for set of services and deployed efficiently on Kubernetes clusters using **CICD** methodologies.
* Employed AWS **Karpenter** for streamlined and scalable container orchestration in AWS environments.
* Designed and built a DB-audit logging solution using Database migration service (**DMS**), **Athena, S3, Glue**.
* Oversaw and enhanced the performance of a self-hosted Tableau instance, while also devising a migration strategy to Tableau Cloud, incorporating **Tableau Bridge** solutions.
* Championed the implementation of **Mutual TLS (MTLS**) for fortified and secure service-to-service communication through **Istio**.
* Deployed **OpenTelemetry** and Istio for distributed tracing, employing Jaeger for advanced performance and system monitoring.
* Proposed and implemented a **Highly Available** (HA) Vault cluster, integrating applications with HashiCorp **Vault** **via BanzaiCloud** vault-webhooks for dynamic secret seeding.
* Worked in conjunction with PostgreSQL and Redis for efficient data storage and retrieval, prioritizing optimal performance and scalability.
* Improved organizational logging efficiency through **Fluentd, Fluentbit, and SplunkConnect**, taking charge of **Splunk server administration**, creating **alerts**, custom dashboards, conducting advanced **troubleshooting**, and performing comprehensive end-to-end performance analysis.
* Introduced **Sonar Cloud** for code quality assessment, identifying and addressing issues in the codebase to enhance overall application quality.
* Implemented **S3** lifecycle policies for cost optimization, transitioning objects seamlessly to **Glacier** storage and ensuring data recovery efficiency. **Enforced encryption** at rest and in transit for all stored data to enhance security.
* Utilized **AWS Systems Manager** in conjunction with Ansible for remote device access, deployments, and field operations configuration, ensuring efficient system management.
* Implemented DNS service **(Route 53)** in effectively coordinating the load balancing, fail-over and scaling functions.
* Monitored and created alarms and notifications for EC2 hosts using **Cloud Watch**.
* Worked on Amazon **API gateway** in creating endpoints for various applications.
* Implemented AWS solutions using **EC2**, **S3**, **Redshift**, **Lambda**, **RDS**, **EBS**, **Elastic Load Balancer**, **Auto scaling** groups, **SNS**, Optimized volumes and **Cloud Formation** templates.
* Established robust **DevSecOps** practices, incorporating **SAST, DAST, Container scanning, and secret detection** to proactively integrate security measures into the development process.
* Led security protocol implementation and maintenance, ensuring ongoing compliance with **HIPAA and SOC2** standards. Conducted **Security Compliance Assessment** (SCA) initiatives, including **SAST, DAST, SBOM**, and Security hardening, embedding security into architecture and design processes.
* Identified, assessed, and mitigated security risks across systems and applications, integrating security measures into the software development lifecycle.
* Orchestrated **Coverage-guided fuzzing, Web-API fuzzing, Secret Detection**, Infrastructure as Code (IaC) Scanning, Container and **Dependency Scanning**, and Security scanning to rectify vulnerabilities and enhance overall security.
* Collaborated with development teams to optimize application performance, troubleshoot issues, and ensure high availability.
* Conducted regular security assessments and implemented best practices to safeguard applications and data.
* Maintained **Jira** and documentation spaces, tracking issues using **Confluence** for bug tracking and organizational efficiency.

**Environment:** Linux, MacOS, Terraform, Ansible, Python, PowerShell, Shell, SCM, Gitlab, Jenkins, CMake, Gradle, Maven, Fastlane , Jira, Confluence, EKS,ECR, S3, Splunk Cloud, Nexus, GitLab CICD, Kubernetes, Service Mesh, Istio, Karpenter, Vault, Vault-Webhooks, Service accounts, SSO, Prometheus, Grafana, AlertManager, Splunk-Connect, Fluent Bit, Nginx, SSL Certificates, DigiCert, Addigy (MDM), PostgreSQL, DMS, SAST, DAST, Secret Detection, Synk, CheckMarx

**Role: DevOps Engineer**

**Client: Audible Magic Corporation, Los Gatos, CA || October 2019 – September 2021**

**Roles & Responsibilities**:

* Design and implement solutions for **monitoring**, scaling, performance improvement and configuration management of systems running on AWS.
* Create and maintain **CI/CD** pipelines for software deployments in both Pre-production and Production environments using **Bamboo**.
* Handling Networking, Routing, and security groups on **AWS** and **AWS to Datacenters**.
* Redesigned **AWS Elastic search** cluster to be privately hosted with **AWS Cognito** and **Nginx** reverse proxy enabling security.
* Configured and built **VMWare** stack for **VMWare Integrated Containers (VIC)** with **Harbor** repository and developed a centralized logging solution with **ELK** for AWS services, containers, and applications.
* Designed and implemented **Nomad** jobs in conjunction with **Consul**, **Terraform** and **Ansible** to enable application deployments and service discovery both pre-prod and Prod environments.
* Redesigned **AWS Elastic search** cluster to be privately hosted with AWS Cognito and Nginx reverse proxy enabling security.
* Engineered intricate **CMake** build scripts for a sophisticated C++ project, incorporating target-specific compiler flags and custom commands to achieve a 20% reduction in build times
* Configured and built VMWare stack for VMWare Integrated Containers (VIC) with Harbor repository and developed a centralized logging solution with ELK for AWS services, **containers**, and applications.
* Defined the base structure / developed modules for Terraform and Ansible to accomplish IAC (Infrastructure as Code) to support multiple development environments and production.
* Creating Ansible Playbooks, to Deploy VM’s on **Open stack** and install the Components as per requirements.
* Designed and Developed Automation framework using Terraform and Ansible for AWS cloud Infrastructure provisioning.
* Designing applications based of Aws services (**EC2, ECS, ECR, ELB, EBS, Elasticsearch, DMS, Auto Scaling, Cloud watch, S3, EBS, Glacier, IAM, Route53, SNS, VPC, AWS Storage Gateway, Lambda, API Gateway**)
* Designed and implemented a centralized logging solution of all the AWS services, containers, and applications using ELK.
* Designed and Created Visualizations, Dashboards, and reports of the application activity with Monitoring and Alerting using **SNS** topics by leveraging **AWS Elasticsearch** and **Kibana**.
* Created Index Management Policies leveraging Open Distro to curate index retention periods.
* Integrated Nexus with CICD, built strategies for the best possible ways in CICD Pipeline.
* Configuring Logic Monitor for monitoring of all resources (AWS Cloud, Datacenter Hardware, Websites)
* Developed ETL’s using python to extract, transform data from both relational and non-relational databases like MSSQL and MongoDB to create transaction dashboards and reports.

**Environment:** Windows Server, Maven, Logic Monitor, Bitbucket, Ansible, Chef, PowerShell, Shell, Python, SCM, GIT, Jenkins, Jira, AWS, Docker, Kubernetes, SSO, ELK, Kibana, Logstash, CICD, Bamboo, VMWare, VIC, Harbor Container Registry, CMake, Gradle, Maven, Fastlane

**Role : Software Developer - DevOps**

**Client: Aspen Technology, Bedford, MA || April 2017 – October 2019**

**Roles & Responsibilities:**

* Experience in **Software Integration, Configuration, building, automating, managing, and releasing code from one environment to another environment and deploying to servers**.
* Extensive experience on configuring **Amazon EC2, Amazon S3, Amazon Elastic Load Balancing, IAM and Security Groups in Public and Private.**
* Created **AWS Route53** to route traffic between different regions and alarms and notifications for **EC2** **instances using Cloud Watch.**
* Used Cloud Front to deliver content from **AWS edge** locations to users, allowing for further reduction of load on front-end servers.
* Extensively worked on **Jenkins** **CI/CD** pipeline jobs for end-to-end automation to **build, test and deliver artifacts and troubleshoot** the **build** issue during the **Jenkins** build process.
* Integrated **Jenkins** with GitHub repository and Maven builds tool and created different environments like Dev, QA, Stage and Prod on **Jenkins.**
* Used Ansible for configuration management of hosted Instances within **Azure Configuring and Networking of Virtual Private Cloud (VPC).**
* Experience in writing several **Cloud Formation** templates to describe the **AWS resources** and compositions that compose our stack.
* Configured/Integrated **Jenkins** with **Bit bucket to pull codes, ANT to generate builds and push artifacts to AWS S3.**
* Automated the **continuous integration and deployments using Jenkins, Docker, Ansible and AWS Cloud Templates.**
* Hands-on experience working with several **Docker components like Docker Engine, Hub, Compose, and Docker** Registry for storing Docker images and files, running multiple containers in staging and production environments.
* Worked to setup **Jenkins** as a service inside the **Docker** Swarm cluster to reduce the failover downtime to minutes and to automate the **Docker** containers deployment without using configuration management tool.
* Have experience in using **Confluence, a team collaboration software** in the workspace.
* Splunk used for monitoring system logs essential to finding problems and halting deployment pipelines. Implemented POC for AppDynamics monitoring along with Splunk to enhance the performance of Applications.
* Developed **PowerShell 2.0** scripting to work with **TFS** Object Model to utilize for more repeatable, automated processes and tasks.
* Have worked on deployment automation of all **micro-services** to pull image from the private **Docker** registry and deploy to **Docker** Swarm cluster using **Ansible**.
* Used **RabbitMQ**, a message-oriented middleware which uses advanced message queuing protocol for exchanging data between processes, applications, and servers.
* **Continuous Integration**, automated deployment and management using **Puppet, Griddle, JIRA, Testing Frameworks, Code quality** tools like **SonarQube** and many other comparable tools based on the requirements.
* Deployed **.NET** applications to application servers in an agile continuous integration environment and automated the whole process.
* Expanded Experience in Network Management like **DNS, NIS, NFS, LDAP, TFTP** and system troubleshooting skills. Experience automating deployments on Servers using JBoss, Tomcat, Web Sphere and Apache web server.
* Closely worked with development, **qa** and other teams to ensure automated test efforts and integrated with the build system and in fixing the error while doing the deployment and building.
* Implemented Proprietary cloud computing to host the On-Premises ENG Product applications on cloud services using Azure Cloud as backend Infrastructure.
* Developed tools to transfer data from proprietary database to cloud based distributed storage systems like HBase, Kafka
* Worked on a Proof of concept **using Microsoft Azure Edge** technologies to build advanced analytics, artificial intelligence in the cloud and deploy to physical devices to analyze, predict the anomalies on Aspen historic data.
* Developed Proof of Concept using **Microsoft Azure IoT** (Internet of Things) Edge, Machine learning algorithms to seamlessly connect and communicate between various sensor devices.
* Worked on a Proof of Concept using Hyperledger Block Chain Network and developed a private Blockchain network which validates the transaction between edge sensors to Edge Device.
* Involved in all phases of SDLC steps and all project meetings, review meetings and worked with customers to resolve the issues on Product deployments.
* Created Docker images using a **Docker** file. Worked on Docker container snapshots, removing images and managing docker volumes and experienced with Docker container service.
* Integrated **Kubernetes** with network, **storage**, and security to provide comprehensive **infrastructure** and orchestrated container across multiple hosts.
* Responsible for configuring the apps to **Azure Kubernetes Service** (AKS) and containerization of apps using Docker and publishing docker images to **Azure Container Registries** (ACR)
* Implemented on-premises Kubernetes cluster using **Minikube** and deployed **microservice** based application using container images.
* Collected Cluster health metrics using Prometheus and **Grafana** for visualizations.
* Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes cluster.
* Used SonarQube to help maintain the source code quality.

**Environment:** .NET, Windows, Ant, Maven, Nagios, Subversion, Chef, Puppet, PowerShell, Shell, Python, SCM, GIT, TFS, MS Build, Jenkins, Jira, Azure, Docker, Kubernetes, MiniKube, Prometheus, Grafana

**Role: Software Engineer  
Client: World Fuel Services, TX || September 2015 – March 2016**

**Roles & Responsibilities:**

* Modelled and automated the End-to-End Continuous Integration/Deployment/Delivery pipeline which included building a Continuous Integration server utilizing tools like **Jenkins**, **Arti factory, Maven, GIT and Sonar.**
* Responsible for creating and maintaining a IVR portal that implements DevOps (Dashboard) to depicts the overall progress of the project with all sorts of metrics from requirement until delivery.
* Using GIT to manage source code developed by various platform engineers.
* Extensive experience working with AWS provided Solutions like EC2, ELB, VPC, Route 53, RDS, S3, IAM, and CloudWatch.
* Creating S3 buckets and managing policies for S3 buckets and Utilized S3bucket and Glacier for storage and backup on AWS.
* Involved in designing and deploying a multitude application utilizing almost all the AWS stack (Including EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, IAM) focusing on high-availability, fault tolerance, and auto-scaling using deployment of multi stacked environments through AWS Cloud formation templates.
* Managed Amazon Web Services (AWS) infrastructure that automate the Provisioning of AWS Services through Ansible scripts and cloud formation templates.
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using AWS Cloud watch.
* Coordinating with QA/DEV/Project/Delivery/Production Support/Managers and Performance teams to consider concerns, issues and addressing those aspects to meet the delivery dates.
* Resolved update, merge, and password authentication issues in Jira.
* Monitor scalable infrastructure on Amazon web services (AWS) and configuration management using Chef.

**Role: Project Engineer || June 2012 – December 2014**

**Client: Wipro Technologies, Hyderabad, INDIA**

**Roles & Responsibilities:**

* Used Maven as build tool on Java projects for the development of build artifacts on the source code.
* Designed and implemented **Subversion and GIT** metadata including elements, labels, attributes, triggers and hyperlinks.
* Implemented & maintained the branching and build/release strategies utilizing **Subversion /GIT.**
* Performed all necessary day-to-day **Subversion/GIT** support for different projects.
* Responsible for design and maintenance of the Subversion/GIT Repositories, views, and the access control strategies.
* Involved in periodic archiving and storage of the source code for disaster recovery.
* Worked closely with developers to pinpoint and provide early warnings of common build failures.
* Used **ANT and MAVEN** as build tools on Java projects for the development of build artifacts on the source code.
* Automated the build and release management process including monitoring changes between releases.
* Deployed the **Java applications** into web application servers like **Web logic.**
* Executed user administration and maintenance tasks including creating users and groups, reports and queries.
* Kept track of all the releases and request of the developers through Infrastructure management tool.
* Created views and appropriate meta-data, performed merges, and executed builds on a pool of dedicated build machines.
* Worked on the Microsoft Release management server for maintaining the release management activities.
* Experience with writing **PowerShell, shell scripts.**
* Used Maven scripts to build the source code. Supported and helped to create Dynamic Views and Snapshot views for end users.
* Implemented & maintained the branching and build/release strategies utilizing **GIT.**
* Deployed the Java applications into web application servers like **JBoss.**
* Comfortable and flexible with installing, updating, and configuring various flavors of **UNIX and Windows.**
* Documented all build and release process related items. Level one support for all the build and deploy issues encounter during the build process.
* Performed and deployed Builds for various Environments like **QA, Integration, UAT** and Productions Environments.
* Integration of the created automation suites with Jenkins CI for continuous development & integration testing.
* Responsible for developing Test Scripts using **Selenium WebDriver, TestNG with Java.**
* Automated deployment of builds to different environments using **Jenkins.**
* Worked on **Atlassian confluence** a team collaboration software for creating the design documents and sharing the documents within the team members.
* Created release management script to find out what changed between two releases for automated generation of release notes.
* Coordinated Build & Release with other group members for **Java, J2EE** based applications.
* Wrote **SQL Queries** for generating different reports & data mining.
* Setting and Maintenance of source code repository
* Defining repository access, backup and restore processes.
* Installation of **JIRA,** and customization of JIRA for workflow, look & feel, fields, user & group management etc.
* Coordinated in **CVS** to Subversion migration.

**EDUCATION   
The University of Texas -** Arlington, TX || Jan 2015- Dec 2017  
Master of Science in Electrical and Electronics Engineering

**Jawaharlal Nehru Technological University -** Andhra Pradesh, INDIA || Sep 2008 - May 2012   
Bachelor of Technology in Electrical and Electronics Engineering