**Name: Anupama Konatala** 

**EmailId:**[**akonatala163@gmail.com**](mailto:akonatala163@gmail.com)

**Ph.No: 513-822-9034**

***AWS/CLOUD DEVSECOPS ENGINEER***

**PROFESSIONAL SUMMARY:**

* An IT Professional with **9 + years** ofsolid experience as **AWS & GCP Cloud DevOps Engineer** with a proven expertise on **AWS, GCP Cloud** and **DevOps (Banking & Retail Domain**).
* Worked on **Microservices** and Server Based Architecture which includes diversified tech stack involved in them and implemented Kubernetes on **AWS EKS** and **GCP GKE.**
* Great expertise on **GCP** Services like **GKE, Anthos (Istio), Compute, VPC, IAM, GCR, Pub/Sub, Cloud DNS**, **Storage Buckets, Cloud Build, Cloud Run, GCS, GCR, Secret Manager**, **Security Command Center,** Certificate **Manager, MemoryStore, Monitoring, Logging & Alerting** with Custom Metrics.
* Experience on **AWS** services like **EC2, VPC, IAM, RDS, ELB, EKS, ECR, ECS, S3, SNS, SQS,** Auto-Scaling, **Load-Balancers, Accelerator, Beanstalk, Route53, Amazon MQ, Cloud Watch, Cloud Trail**, **EventBridge, DynamoDB, SNS, IAM, Landing Zone, WAF, Guard Duty, Event Bridge, RDS, Document DB**, Elastic Cache.
* Implemented **GitOps**, **Continuous Intergration**, Continuous Deployment, Continuous Monitoring, Build & Release Management with Jenkins Pipelines, Shared Libraries, Azure **DevOps Pipelines &CodeFresh.**
* Experience in implementing Git Branching, Tagging, Versioning and Release Activities on Version Control Systems like GitHub, and configuring Git for Azure DevOps & Code Fresh.
* **Integtated CI / CD Jekin**s Pipelines with Ansible, Terraform, Maven, Gradle, SonarQube and Prometheus.
* Good Expertise on Container Technologies like Docker & Orchestrators like Kubernetes and OpenShift
* Experienced in coding **Terraform** Modules to provision infrastructure on AWS & GCP Cloud keeping the code **DRY / Re-usable** and achieved end-to-end Infrastructure as Code.
* Experience in Log aggregation with **ELK**.

Experience in security advancements like Secret Manager, SSL Certificates, Container Security.

* Experience in migrating Server Based Infra to Containerized Architectureon Kubernetes (GKE & EKS).
* Implemented Infrastructure on Google Cloud Platform &**AWS using Terraform (IaC**).
* Strategies & Solutions which helped in the cost optimization on annual billings on Cloud Infrastructure.
* Designed **Highly Available, Scalable, Cost-Effective Kubernetes Clusters on EKS, GKE** and reliable deployments with Pod Disruption Budgets.
* Hands-on experience using **Maven, NodeJS, Python & Go-Lang** as the build tool for building artifacts.
* Experienced in writing Kubernetes YAML Files and Helm Charts with Jenkins and deploying them on Kubernetes Clusters (EKS and GKE)
* Extensively used configuration management tool Ansible with Roles to reduce manual tasks.

**CERTIFICATIONS:**

**AWS CERTIFIED DEVOPS ENGINEER- Professional**

**TECHNICAL SKILLS:**

|  |  |
| --- | --- |
| **Configuration Tools** | Chef, Puppet, Vagrant, Docker, Maven, Ansible, Kuberenetes |
| **Build Tools** | Jenkins, ANT, MAVEN, Bamboo, Hudson and Gradle,Terraform |
| **Tracking Tools** | Service Now, Bugzilla, Zabbix, Nagios, Rest API |
| **Version Control Tools** | GIT, CVS, SVN, RTC, source tree |
| **Programming Languages** | C, SQL, HTML, PHP, XML, Bash, Perl and Shell  Programming, JSP, Golang, Python, Ruby |
| **Application Servers** | Tomcat, Apache, Web logic, Data dog, Web Sphere, IIS 7.0 and JBoss |
| **Infrastructure** | Service AWS, EC2, LAMBDA, RDS, S3, IAM, OpenStack andRack space, Azure |
| **Database** | SQL server 2008R2/2012, Oracle 11g, MySQL |
| **Management Tools Disk** | SVM, ZFS, Zones , Hashicorp Vault, Splunk, Veritas Volume Manager, File system, Dynatrace, Sun Solstice Disk Suite, Harness, Project JIRA, Confluence. |
| **Services** | LDAP, TCP/IP, UDP, FTP, SFTP, HTTP/HTTPS, SSL, NIS, NIS+, NFS, DNS, DHCP |

**PROFESSIONAL EXPERIENCE:**

**Client: Nationwide Insurance, Columbus OH June 2022-Till Date**

**Role: AWS**/**Cloud DevOps Engineer**

**Responsibilities:**

* Design roles and groups using **AWS Identity and Access Management (IAM**) and Managed hardware, software, and networking for a large scale cluster on **Amazon EC2.**
* Used security groups, **IAM role**s, **scaling groups, load balancers, Monitored EC2** instances with **Cloud watch.**
* Experience with analysis of logs and performing root cause analysis for various issues coming up on daily basis.
* Worked on **Google Cloud Platform (GCP**) services like **Compute Engine, VPC, Cloud Load Balancing, CloudStorage, Cloud SQL, StackDriver, Cloud Monitoring, IAM, IAP, Workload Identity, Armor, Cloud** Run, GKE, GCR, Anthos, Cloud Build, Secret Manager, BQ, Security Command Center, Cloud Deployment Manager.
* Designed end-to-end **AWS, GCP** infrastructure provisioning with **Terraform.**
* Designed custom catastrophic alerts & dashboards on **AWS, GCP** with Prometheus and **StackDriver**
* Decent knowledge on **Dynamo DB a**nd **Amazon EMR and** Created periodic **EBS snapshots** and rebuilt new E**BS** volumes from these snapshots to migrate applications.
* Used **DNS** management in **Route53, Amazon S3 to backup** database instances to save snapshots of data and Manage Network allocation in **VP**C to create new public networks.
* Maintained build related scripts developed in **ANT a**nd Shell. Modified build configuration files including **Ant build.xml** and Created and maintained Subversion repositories, branches and tags and Experience in Administering S**VN**.
* Manages the overall EKS cluster.
* Creates and manages the EKS cluster.
* Configures networking and security settings.
* Manages IAM roles and permissions for cluster access.
* Write clean, maintainable, and efficient code using Go programming language.
* Collaborate with other team members to design and implement features.
* Implement AWS containers to support Go implementation and successful repository maintenance.
* Designed highly available, cost effective and fault tolerant systems using multiple **EC2 instances, Auto Scaling, Elastic Load Balance and AMIs.**
* Create and maintain documentation for Hashicorp Vault configurations, processes, and procedures.
* Train team members on the proper use and administration of Hashicorp Vault.
* Focuses on the security aspects of Helm charts and their deployments
* Using Splunk, design and develop unique reports and visualizations that communicate data patterns and anomalies in an understandable way.
* Create sophisticated Splunk search queries and filters to glean insights and patterns from huge datasets.
* Splunk may be integrated with version control systems and CI/CD pipelines, among other DevOps tools, to improve observability throughout the software delivery process.
* Create and manage continuous delivery pipelines by automating application deployment using Harness.
* Create, set up, and oversee deployment pipelines that coordinate testing, approvals, and rollbacks throughout the release process.
* Utilizing harness to ensure accurate and consistent deployment of application components, manage and version objects used in the deployment process.
* Reviews Helm charts for security vulnerabilities.
* Implements security best practices for Helm releases.
* Collaborates with developers to address security concerns.
* Plan and execute upgrades for Vault to ensure the use of the latest features and security patches.
* Perform routine maintenance tasks and optimizations**.**
* Creating S3 buckets and also managing policies for **S3 buckets** and Utilized S3 bucket and Glacier for storage and backup on AWS.
* Developed build and deployment scripts using **AN**T and **MAVEN** as build tools in Jenkins to move from one environment to other environments.
* Lead various phases of **Software Development Life Cycle (SDLC**) such as Requirements **analysis, Design, Development, and Implementation, Testing for Enterprise applications**.
* Installed, configured and maintained web servers like HTTP Web Server, Apache Web Server and WebSphere Application Server on Red Hat Linux.

**Environment:** UNIX, windows, CVS, GIT, Puppet, EC2, S3, IAM Jenkins, Maven, Eclipse, Shell Scripting, Subversion, Golang Apache Tomcat, Web Sphere Application Server, VMware, Red hat Cluster Servers.

**Client: Anthem, Atlanta GA April 2020-Dec 2021**

**Role: AWS / Cloud DevOps Engineer**

**Responsibilities**:

* Worked with development teams to automate application deployment process using **DevOps** Methodologies.
* Worked on converting the traditional applications to docker and automate the build and deploy process for faster deployment and reduced the deployment time by 80%.
* Engineered Infra on **AWS Cloud** using **VPC, EC2, RDS, S3, EFS, Route53, EKS,ECS,ECR, ELB**, CloudFront, **RDS, SNS, SQS, Amazon MQ, CloudWatch**, & **IAM services.**
* **Experience in DevOps Engineering in automating, building and deploying of code with in different** environments (**Dev, QA**, and **Prod**).
* At Datadog, we collect, process, and visualize trillions of data points per day.
* Worked on monitoring tool DataDog creating metrics monitoring
* Achieved optimized resource utilization, scalability, and reduction of costs leading to savings using containerization tools like Docker and Mesos installed / configured Datadog agents via packer ansible etc.
* **Worked on writing terraform code to versioned infrastructure on AWS using terraform ( IaC)**
* **Implemented Mutable & Immutable Infrastructure on AWS Cloud using AMI’s and Servers.**
* **Worked on performing deployments using Rolling Update & Blue-Green Update.**
* Administered and automated the Jenkins job creation with **gradle wrappers.**
* Installed and Configured **Nexus, Artifactory**&**Azure Artifacts** Repositories.
* Implemented **SAST** practices using SonarQube.
* Configured Ansible Tower and created Ansible Playbooks for deployments and patch management.
* Use a variety of deployment techniques, such as canary releases or blue-green deployments, to minimize downtime and lower the possibility of production problems.
* To build end-to-end automation workflows, integrate Harness with additional CI/CD technologies, version control systems, and monitoring tools.
* Extensively used configuration management tool with **Ansible Roles**.
* Hands-on experience in using **Maven, NodeJS, Pytho**n & **GoLang** as the build tool for building of deployable artifacts from source code.
* Design and implement RESTful APIs and services using Go Langauge.
* Integrate third-party APIs when necessary in Golang.
* Focuses on overall security aspects of the cluster.
* Implements network security policies using network policies.
* Configures security groups, VPC settings, and ingress/egress rules.
* Implements encryption for data in transit and at rest.
* Resolving **Hacker-One** Identified Security Issues on highest priority.
* Involved in Installing Jenkins on a Linux machine and created a master and slave configuration to implement multiple parallel builds through a build farm.
* Monitored the automated build and continuous integration process to ensure correct build execution and facilitate resolution of build/ release failures.
* Performed build and release of all software cycles engineering, test, production, update, patches and maintenance.
* Configured Application Environments which includes installation of **Apache Tomcat** on **UNIX & Linux** platforms.
* Implemented Monitoring Dashboards with **Latency, Error Rate, Saturation**& Traffic using **Grafana.**
* Migrated data to **AWS** from Data Center using Amazon Snowball.
* Implemented **Multi-Stage Docker Imaging** on all applications and reduced the docker images size
* Implemented **Multi-Stage Docker imaging** which reduced the storage cost by 60% on cloud
* Written shell scripts to automate manual tasks using Bash.
* Good expertise on **Nginx, Apache**&**Reverse Proxy**.
* Implemented **CI/CD** Pipelines with **Git, Maven, Jenkins, Terraform**&**SonarQube**
* Using Infrastructure as **Code Terraform, EC2 templates, AMI Patch Management** was made easy.
* Implemented network security of **VPC**’s using **NACL’**s and S**G’**s as per the compliance policies
* Automated **EC2** backup solution and resource shrink mechanism using **CloudWatch Triggers.**
* Responsible for ensuring the reliability, scalability, and high-grade security of highly available infrastructure
* Work with development and operations teams to find and analyze occurrences, resolve problems, and determine the underlying causes by utilizing Splunk.
* Use Splunk as a SIEM solution, comparing logs and security events to identify and handle security incidents.
* Perform post-mortems with teams after every roll back or deployment failure with precise documentation.
* Integrate Hashi Corp Vault with other tools and systems within the organization's technology stack.
* Collaborate with developers and operations teams to ensure smooth integration with applications
* Set up monitoring and logging for Hashicorp Vault to detect and respond to security incidents.
* Regularly review logs and monitor system performance.
* Worked on configuring **Elastic search Logstash Kibana (ELK) Stack** with **Grafana & Kibana Dashboards**
* Building Jenkins pipelines& integrated **GitHub, SonarQube, Nexus repository** and Container Security.
* Worked on automating developer tasks using **Jenkins** Pipelines.
* Integrated Compile, Build, Security Scan, Build, Upload of Artifacts to **Nexus** and deployments to servers.
* Attending Daily Scrum calls and working with teams to close the **JIRA** Stories on time.
* Performed build and release of all software cycles engineering, test, production, update, patches and maintenance.
* Monitored the automated build and continuous integration process to ensure correct build execution and facilitate resolution of build/ release failures.
* Experience in designing, building, maintaining and coordinating an automated build/ release from development to production environment that also satisfies the internal audit and compliance.
* Performed build and release of all software cycles engineering, test, production, update, patches and maintenance.

**Environment:**AWS (IAM, EC2, ECS, ECR, ELB, S3, EBS, Kinesis, VPC, Route53, RDS, DynamoDB, SQS, SNS, Lambda, Linux, Terraform, Kubernetes, Docker, OpenShift, Ansible, Git, Jenkins, Hashicorp vault, Gradle Maven, Nexus, AppDynamics, Dynatrace, Yaml, Groovy, Kafka, Redis, SonarQube, MongoDB

**Client: AT&T, Dallas TX Oct 2017-Mar 2020**

**Role: DevOps Engineer**

**Responsibilities:**

* Managed Ubuntu, Linux and Windows virtual servers on AWS EC2 instance by creating Chef Nodes **through Open-Source Chef Server.**
* Involved in designing and deploying a multitude applications 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 in AWS Cloud formation.**
* Worked on Multiple **AWS** instances, set the security groups, Elastic Load Balancer and AMIs, Auto scaling to design cost TEMP effective, fault tolerant and highly available systems.
* Creating Cloud Formation scripts for hosting software on **AWS** cloud and automating the installation of software through PowerShell scripts.
* Developed Dev/Test/Prod environments of different applications on **AWS** by provisioning Kubernetes clusters on EC2 instances using Docker, Bash, Chef, and **Terraform**.
* Managed a PaaS for deployments using Docker, **Kubernetes** and Puppet which reduced considerably deployment risks.
* Installing, configuring and administering Jenkins CI tool using Chef on **AWS** EC2 instances.
* Implementing a Continuous Delivery framework using Jenkins, Chef, Maven, and Nexus in Linux environment.
* Installed and configured **GIT & SVN**.
* Written multiple **Python, Perl** and **Shell scripts** for automating various companywide tasks.
* Wrote Python script to efficiently push out commands to any Linux server via SSH.
* Manages the deployment and operation of Helm charts on a Kubernetes clusters
* Deploys Helm charts on the cluster using Helm CLI or other deployment tools.
* Monitors the health and performance of deployed applications.
* Manages configuration values and secrets for Helm releases.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on **AWS** instances using Python. Run **Ansible** Scripts to provision Dev servers.
* Created Shell scripts for automation of build and release process.
* Used Chef as a Configuration Management tool managing Private Cloud Environment.
* Wrote Chef recipes for various applications and deploying them in **AWS** using **Terraform**.
* Deployed **Chef dashboard** for configuration management to existing infrastructure.
* Designed **Chef Modules** to manage configurations and automate installation process.
* Used Chef to manage Web Applications, Config Files, Data Base, Commands, Users, Mount Points, and Packages.
* Used Jenkins innovatively to automate most of the build related tasks. Improved throughput and efficiency of build system by providing EO/managers rights to trigger required build.
* Configured security and system in Jenkins. Added multiple nodes to **Jenkins and configured SSH for continuous deployments.**
* Harness's monitoring and alerting features can be configured to give real-time input on the performance and health of the deployment.
* Make sure that apps comply with regulations by implementing security best practices and compliance checks in deployment pipelines**.**
* Building and Implementing new project(s) builds framework using Jenkins &amp; Maven as build framework tools and/as Continuous Delivery framework using Jenkins, Chef and Maven in Linux environment.
* Integrated Maven with Jenkins for the builds as the Continuous Integration process.
* Support enterprise monitoring activities using Dyna trace and Provide hands-on design, configuration, module upgrade, planning and implementation.
* Work with DevOps teams to deploy applications using Golang.
* Troubleshoot and resolve issues in the production environment while using Golang.
* Diagnose and resolve incidents; implement appropriate corrective actions for known errors.
* Troubleshoot performance issues; track ongoing status of any incidents through resolution.
* Efficient in Maven for the build process and Bamboo as continuous integration build tool and Worked on build failures on trouble shooting.
* Created Puppet Automation tools and builds, and do an overall process improvement to any manual processes. Processed manifest management and Puppet automation.
* Involved in leading Automation Deployment Team by working with Puppet.
* Monitored the servers & applications using **Nagios, Cacti and Splunk.**
* Use Splunk for log analysis to gather and index log data from several sources and learn about the behavior of your system and applications.
* Set up and manage Splunk dashboards to monitor, notify, and visualize system metrics and critical performance indicators in real time.
* Manage and secure sensitive information such as API keys, passwords, and cryptographic keys using HashiCorp Vault.
* Develop and implement policies for access control to secrets
* Involved in tweaking the existing **ANT files** in case of errors or changes in the project requirements.
* Automate the builds and deployment of **JAVA projects using ANT and Jenkins**.
* Used **IBM pr**oducts like **RTC** as the source control tool and used Build Forge for CI.
* Installation and configuration of Jenkins, Installation and configuration of Jira/Confluence.
* Integrated JIRA and Subversion using Pre-commit hooks to ensure the process is followed and automated JIRA tasks using **JIRA CLI.**
* Provided support to Integration, Middleware, DBA, Development teams for issues related to system.

**Environment:** AWS, GIT, Subversion (SVN), Jenkins, MAVEN, Chef, Chef-Solo, Docker TC Server, Tomcat, Shell/Perl Scripts, Linux, UNIX, Windows 7, Oracle, Nexus, JIRA.

**Client: Pact Software Solutions, Hyderabad, India May 2014-Sep 2017**

**Role: DevOps Engineer**

**Responsibilities:**

* Designed and implemented fully automated server build management, monitoring and deployment solutions spanning multiple platforms, tools and technologies including **Jenkins Nodes/Agent, SSH, Amazon EC2 etc.**
* DNS and load balancing experience on Route53.
* Creation of servers, AMIs, storage blocks, snapshots, VPCs, subnets, load balancers, and firewalls in **AWS**.
* Worked on GIT which includes creating new users, Branching, Merging the changes and writing some pre-commit &amp; post-commit hook scripts.
* Used Git for source code version control and integrated with Jenkins for CI/CD pipeline, code quality tracking and user management with build tools Maven and Gradle.
* Used Maven for building **Java/J2EE Applications.**
* Deploy and configure Hashi Corp Vault to meet the organization's security and secrets management requirements.
* Integrate Vault into existing infrastructure and workflows.
* Managed Maven project dependencies by creating parent-child relationships between projects.
* Manages the Kubernetes control plane.
* Monitors and maintains the health of the control plane components.
* Configures RBAC (Role-Based Access Control) policies.
* Manages Kubernetes API server access and authentication.
* Experience in writing **Maven pom.xml and Ant build.xml for build scripts**.
* Created and maintained Puppet Modules to manage configurations and automate installation process. Deployed Puppet and Puppet DB for configuration management to existing infrastructure.
* Involved in Chef and Puppet for Deployment on Multiple platforms.
* Deployed and configured Chef Server and Chef Solo including bootstrapping of chef client nodes for provisioning.
* Focuses on the security aspects of Helm charts and their deployments.
* Reviews Helm charts for security vulnerabilities.
* Implements security best practices for Helm releases.
* Collaborates with developers to address security concerns
* Automated Nagios alerts and email notifications using python script and executed them through Chef.
* Deployed Java/J2EE applications on to Apache Tomcat application servers and configured it to host the wiki website.
* Documented the security policies of the company and recommended some process changes.
* Handled Production On call activities based on the schedule.

**Environment:**AWS, GIT, Subversion (SVN), MAVEN, Chef, Tomcat, Shell/Perl Scripts, Linux, UNIX, Oracle, JIRA.

|  |
| --- |
|  |
|  |
|  |  |
| **EDUCATION:**  **Masters of Business Administration JNTU Kakinada, India.- 2013**  **Bachelors of Technology in Electronics and Communication Engineering- 2011** |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |
|  |