**Sankuru S**

[sankurus1100@gmail.com](mailto:sankurus1100@gmail.com)

512-333-2646

**Professional Summary:**

A **Cloud DevOps Engineer** with 8+ years of hands-on experience in automating, configuring, deploying instances in the areas of Data Center Operations, Systems Administration, Cloud computing, release & deployment, Software Configuration

Management (SCM). Automating environment build and provisioning using virtualization, containerization and orchestration tools with Docker, VM Ware, AWS, Azure, GCP, Vagrant, Kubernetes and OpenShift.

* Experience at working on Software Development Life Cycles, **Agile** Programming, **DevSecOps, GitOps, DevOps** & **Agile Ops** Methodologies.
* Strong experience using a broad range of **AWS** services (**EC2, VPC, Lambda, Auto Scaling, RDS, ELB, S3, AWS CLI, IAM, AMI, CloudWatch, CloudTrail, Route 53, DynamoDB, SNS, ElasticCache, API Gateway, Networking, CloudFront, CloudWatch Logs and EFS**) to develop and maintain an Amazon AWS based cloud solution.
* Experienced in Managing AWS infrastructure with automation and configuration management tools such as **Ansible, Kubernetes** and **Terraform.**
* Building Fault-Tolerant and High Availability applications on the AWS infrastructure by configuring **Auto Scaling** behind **Elastic Load Balancers.**
* Expertise in automation tools like **Git, Maven, Jenkins, Chef, Puppet, Ansible, Terraform, Docker, Kubernetes**.
* Experience on DevOps tools such as **Chef, Vagrant, Virtual Box, Puppet, Ansible, Jenkins, Maven, ANT,** and **Docker**.
* Experience and knowledge of Cloud Management Platform **(IaaS, PaaS, SaaS).**
* Strongly hands on experience in scripting such as - **Python, Groovy, UNIX Bash, Shell Scripting** and **Perl**.
* Extensive experience using **MAVEN, ANT, Gradle** and **Xcode** as build tools for the building of deployable artifacts from source code and good exposer in Android platform and build tools.
* Experience in **Nexus** and Artifactory Repository for **Maven** and **ANT** builds.
* Good at using Google Cloud Platform (**GCP**) including **Docker Containers, Container Builder, Container Engine** (Kubernetes), **Network Load Balancer (Ingress & Node Port) with Certificates (HTTPS), Cloud Storage, Data Store** (NoSQL), **Data Proc** (managed Hadoop),and **Cloud Pub/Sub** (managed Queues), **Big Table** (managed HBase) etc.
* Written **Docker Files** for microservices and deployed them in prod and non-prod environments.
* Proficient with container systems like **Docker** and container orchestration like **EC2 Container Service, Kubernetes,** worked with **Terraform**.
* Strong involvement in Orchestrating **Docker Container** Deployments with **Kubernetes** and **Amazon ECS**.
* Used **Ansible** to Setup/teardown of **ELK** stack (**Elasticsearch**, **Logstash**, **Kibana**) and troubleshoot the build issues with **ELK** and work towards the solution.
* Configured and monitored multi - platform servers using **chef**, excellent at defining **Chef** Server and workstation to manage and configure nodes, developed **Chef Cookbooks** to manage systems configuration.
* Using **Chef**, deployed and configured **New Relic**, **Elasticsearch, Logstash** and **Kibana (ELK**) for log analytics, full text search, application monitoring in integration with AWS **Lambda** and **CloudWatch**.
* Strong experience in DevOps Environment by enhancing Continuous Delivery and infrastructure change by using **Ansible**, **Kubernetes** and **Docker** to deploy code with **GIT, Jenkins**.
* Extensive experience in using Continuous Integration tools like **Cruise Control, Build Forge,** and **Hudson.**
* Exposure to administration of servers such as **IIS 7.5, Tomcat, WebSphere**, **WebLogic**.
* Ability in managing all aspects of the software configuration management process including **Code Compilation, Packaging, Deployment, Release Methodology** and **Application Configurations**.
* Hands-on experience in **TFS 2013** and **TFS 2015**.
* Proficiency in multiple databases like **MongoDB, MySQL, ORACLE and MS SQL Server.**
* Transfer data from Datacenters to cloud using AWS Import/Export Snowball service.
* Exposure on test automation tools like **selenium, SoapUI, JMeter**.
* Experience in managing automated multiple continues integrated depot and branch builds on **Hudson/Jenkins, Team City** on a Network Server.
* Familiar to OS/Raid Installation using custom images, **VM Creation** with VMware Tools and **KVM.**
* Configured Networking Concepts **DNS, NIS, NFS** and **DHCP, SMTP** troubleshooting network problems such as **TCP/IP**, providing support for users in solving their problems.
* Experience in Installing, upgrading and configuring Red Hat Linux 3.x, 4.x, 5.x, and 6.x using
* Good experience in Microsoft Products and their deployment including Octopus and PowerShell.
* Installed, maintained, upgraded and supported Apache and JBoss application servers on Red Hat Linux systems.
* Knowledge in using TIBCO Administrator for User Management, Resource Management and Application Management.
* Expertise in all areas of **Jenkins** like Plugin Management, Securing and scaling **Jenkins**, integrating Code Analysis, Performance issues, Analytics and Test Phases to complete the CI/CD pipelines within **Jenkins**.
* Deep Experience in several areas of **Jenkins** like master/slave administrations, access controls, report generations, parameterized/triggered build setups etc.
* Experience working on **Azure Cloud services, Azure storage, Azure CLI, Azure active directory** and **Azure Service Bus**, managing Client's **Microsoft Azure** based **PaaS** and **IaaS** environment.
* Creating clusters in **Google Cloud**and manage the clusters using **Kubernetes** (k8s).
* Used **Jenkins** to deploy code to **Google Cloud** with new namespaces, create **Docker** images and push them to container registry of **Google Cloud**.
* Installed **helm** and **kubectl** in **Jenkins** master and slave nodes, managed **Kubernetes** charts using **Helm**, created reproducible builds of the **Kubernetes** applications, managed **Kubernetes** manifest files and Managed releases of **Helm** packages.
* Good knowledge on Spring cloud using Pivotal Cloud Foundry (**PCF**).
* Worked across both private (**OpenStack**) and public clouds (**Amazon AWS**) and managed **Linux** and **Windows virtual servers** on AWS **EC2** using **Chef** Server.
* Have Extensive Experience in IT data analytics projects, Hands on experience in migrating on premise ETLs to **Google Cloud Platform (GCP)** using cloud native tools such as **BIG query, Cloud Data Proc, Google Cloud Storage, Composer**.
* Involved in a case study of best fit cloud service providers for the given application types, compared **GCP, AWS, OpenShift & Azure** to build a tour guide for the enterprise.
* Worked on utilizing artifact repository managers like **JFrog, cloud Repo** and **Azure Artifacts** for **Maven** builds, as well as build management tools like **Maven** and **Gradle** for the creation of deployable assets (jar, war) from source code.
* Experienced with log monitoring tools like **NewRelic**, **Syslog, Splunk, Nagios, Dynatrace, ELK, Prometheous, Grafana, Cloud Watch, Azure Devops,** and **App Dynamics**.
* Worked with ticketing & Project Management tools like **JIRA, Azure Devops**, and **ServiceNow**.
* Worked on **Agile** Methodology and monitored and maintained the development and production.

**TOOLS AND TECHNOLOGIES:**

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| **CLOUDS** | AWS, Microsoft Azure, Google Cloud Platform |
| **BUILD & ARTIFACT** | Apache Maven, Gradle, SonarQube, Veracode, Nexus, JFrog, AWS Artifact, Azure Artifacts |
| **CONTAINERIZATION** | Docker, Kubernetes, EKS, AKS, GKE, Artifact Registry, OpenShift, ECR, Docker Private Registry |
| **CONFIGURATION & ORCHESTRATION** | Ansible, Puppet, Chef, Terraform, AWS Cloud Formation Templates, AWS CDK |
| **CI/CD** | Jenkins, Bamboo, AWS Code Pipeline, GitLab, Azure DevOps, Helm Charts, ArgoCD, GitHub Actions, CircleCI |
| **MONITORING & BUG TRACKING** | Cloud Watch, Splunk, Prometheus, Grafana, Logstash, Elastic Search, Kibana, Kafka, Zookeeper, DataDog, New Relic, JIRA, Kanboard, Azure Boards, GitLab, ServiceNow |
| **VERSION CONTROL** | GitHub, Azure Git, AWS Code Commit, Bit Bucket, SVN, Azure Repos |
| **DATABASES** | SQL, MySQL, PostgreSQL, DynamoDB, MongoDb, Oracle |

**Professional Experience:**

**Texas Department of Human Services, Remote May 2022 - Present**

**Cloud DevOps Engineer/SRE**

**Responsibilities:**

* Worked on Google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring, Artifact Registry, and Kubernetes Engine.
* Involved in Building and configuring Red Hat Linux Servers using Kick Start server as required for the project.
* Maintained maximum uptime and maximum performance capacity for enterprise production, QA and UAT/staging.
* Design and implementation of a Puppet-based configuration management system for all new Linux machines.
* Setup puppet master, client and wrote scripts to deploy applications on Dev, QA, production environment.
* Development of Puppet modules with Jenkins for continues integration and continues deployment of managed products, and related services.
* In Enterprise Holdings, I was a part of the infrastructure and CI/CD team I supported in building infrastructure and orchestrated CI/CD pipelines for the DE team to analyze the market/consumer data to make it more competitive in nature
* Created Terraform Scripts to Automate and maintain GCP services, Google App Engine, Cloud CDN Distribution, Kubernetes Engine, database, Compute Engine and database security groups, Cloud Storage and application configuration
* Launched the Compute Engine VM's, Cloud Storage objects, VPC, Subnets by setting up Terraform Templates.
* Orchestrated a CI/CD pipeline with use of GitHub for version control, GitHub Actions for CI with the use of other plugins like Python and Artifact Registry and Kubernetes Engine for orchestration of containers
* Created CI/CD process using GITHub, Github actions job creation, Python builds and Created Docker Images to store it in Artifact Registry
* Created build automation pipelines and CD on GitHub Repos using GitHub Actions for GKE
* Created Self-service for creation and deletion of DEV & QA infrastructure using Terraform for DE teams
* Worked on Kubernetes to deploy, load balance, scale and manage Kubernetes Engine, managed pods and troubleshot any Errors.
* Created repositories on GitHub, assigning members to teams, granting required access, setting up branches and enabling code/branch security configurations to ensure best practice
* Used Kubernetes Engine to orchestrate the deployment of containers across multiple nodes
* Created dedicated Self hosted GitHub runners in GCP and maintained them using Terraform
* Used Helm charts and ArgoCD to deploy containerized web applications onto GKE and implemented configurations for Autoscaling of Deployments
* Worked with monitoring tools like NewRelic, Prometheus and Grafana
* Provisioned and integrated NewRelic, Datadog monitoring metrics at build time using Terraform and created alerts for spikes and abnormal anomalies within app, deployment, server/host issues
* Created & maintained Jira permission schemes, and JIRA projects, workflows, custom fields, screen, and notification schemes
* Implemented and maintained cloud infrastructure process resulting in a 20% reduction in infrastructure costs
* Automated GCP infrastructure using Terraform resulting in a 30% increase in resource usage efficiency
* Migrated all our test and development on-premises servers to GCP using import VM and VM migration service.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform). Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Extensively used Google stackdriver for monitoring the logs of both GKE and GCP instances and configured alerts from Stackdriver for some scenarios.

**Verizon, Remote Aug 2021 - Mar 2022**

**Cloud DevOps Engineer**

**Responsibilities:**

* Architected and implemented Azure service and GCP offerings with expertise in areas like cloud computing, storage, IIS, Azure Active Directory (AD), Azure Resource Manager (ARM), Azure Storage, Azure, Blob Storage, Azure Virtual Machines, SQL Database, Azure Functions, Azure Service Fabric, Azure Monitor, and Azure Service Bus.
* Worked on Agile Methodology by dedicating a sprint on Monitoring (HD) shifts and another sprint for Deployments, Infrastructure Issues, and Improvements
* Managing & enhancing existing applications on a WebSphere / JBoss EAP server with various Java technologies like spring, Struts and REST services.
* Involved in redesign of the existing application using Microservice based architecture.
* Supporting the performance testing, security testing and infrastructure maintenance of the existing applications using tools like Fortify, Sonar and Performance Center Lab.
* Managing the applications of current state and future state artifacts for architecture & infrastructure, maintaining the design documents and technical documents for knowledge base.
* Used Terraform to map more complex dependencies and identify network issue.
* Built Jenkins jobs to create AWS infrastructure from GitHub repos containing terraform code.
* Gluster Native Client is the recommended method for accessing volumes when high concurrency and high write performance is required.
* Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple name spaced versions.
* Worked on Docker/Kubernetes Containerization of cloud-based applications like Azure and GCP.
* Strong experience utilizing Jenkins for enterprise scale infrastructure configuration and application deployments checking out code from svn/git and use ant/maven to build war/jar artifacts.
* Experience in building Micro Service applications using Spring Boot for developing Restful Web services.
* Good Knowledge in implementing client - server business applications using Micro services. Designed and developed Micro services business components using Spring Boot.
* Expertise in handling Azure IaaS - Virtual Networks, Virtual Machines, Cloud Services, Resource Groups, VPN, Load Balancing, Application Gateways, Traffic Manager and Auto-Scaling
* Used Dynatrace to gain insights into how environment is performing and set up alert notifications and Developed dashboards to visualize performance and service health
* Been production support on Day 1 & 2 of deployments and created proactive alerts for live applications to monitor the deployment of pipelines and infrastructure as well as supported P0/P1 Incidents
* Worked on Azure Boards for defect tracking system & configure various workflows, customizations, and reports
* Assist in providing 24 x 7 operational support and continuously work on improving internal tools, using Ansible automation used by SRE team
* Operational support by validating Network policies and firewall rules for connectivity
* Worked on AKS and GKE clusters and developing GitOps pipelines for microservices using Helm Charts and Flux in the cloud
* Configured Kubernetes Replication controllers to allow multiple pods such as Azure Pipelines
* Involved in planning, developing, architecture, and maintenance of Azure Infrastructure using Terraform templates to build staging and production environments
* Created Azure PowerShell scripts for deploying Azure infrastructure required to build development, test, and production environments for a software development project
* Configured and maintained Azure Pipelines to implement CI process and integrate tool with Artifactory and Maven to schedule builds
* Used build automation tool Maven which is installed with Azure Pipeline on Ansible server and in java projects for creation of build artifacts on source code
* Provided holistic view of both IaaS and PaaS services by having application and environment telemetry data ingested into OMS workspace
* Managed Azure key vault for securing API keys, secrets, passwords, and SSL certificates for cloud DE teams
* Worked on Azure Disaster Recovery by setting up Azure Site Recovery
* Worked on setting up Alerts & APM Dashboards on Dynatrace for high reliability on application
* Configured Splunk to monitor real-time granular metrics of all Azure Services and configured dashboards for each resource agent
* Responsible for implementing DevOps transformations in teams to eliminate redundant issues
* Worked on Azure Cloud services (Iaas & Paas), Management tools, Migration, Storage, Network & Content Delivery, Active Directory, Azure container service, VPN Gateway, Content Delivery Management, Azure Storage Services, Azure Database Services.
* Collaborated with development teams to support the implementation of infrastructure as code, continuous integration and continuous delivery (CI/CD) pipelines.
* Configured Azure Security Center and Azure Monitor to ensure compliance with industry standards and security best practices.
* Practical expertise in Scrum mastering, Linux systems administration, and system setup.
* Used wide range of open-source tools and technologies to support development and operations roles.
* Maintained version control with Azure repos and worked with AAD to manage privileged accounts, perform multi-factor authentication, regulate access based on roles, monitor application usage, and sent alerts.
* Deployed Azure infrastructure as code using Terraform's AzureRM provider, Azure Repos, and Azure Pipelines.

**ServiceMaster Memphis, TN Aug 2019 - Jul 2021**

**DevOps Engineer**

**Responsibilities:**

* Build and configure a virtual data centre in the Amazon Web Services and GCP clouds to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer.
* Leveraged AWS cloud services such as EC2, auto-scaling and VPC to build secure, highly scalable and flexible systems that handled expected and unexpected load bursts.
* Design and Implemented Cloud Orchestration solution using AWS EC2 &, Docker.
* Automated Weekly releases with ANT/Maven scripting for Compiling Java Code, Debugging and Placing Builds into Maven Repository.
* Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, PHP, Python, Ruby, and Docker on familiar server like Apache.
* Setup and build AWS infrastructure various resources, VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud formation JSON templates.
* Maintained the user accounts (IAM), RDS, Route 53, VPC, RDB, Lambda, Dynamo DB, SES, SQS and SNS services in AWS cloud and Deployed applications on AWS by using Elastic Beanstalk.
* Designed and implemented scalable, secure cloud architecture based on Amazon Web Services.
* Defined branching, labelling, and merge strategies for all applications in Git.
* Enabled the Amazon Cloud watch and GCP monitoring to monitor major metrics like Network packets, CPU utilization and load balancer.
* Built Continuous Integration environment Jenkins/Maven and Continuous delivery environment.
* Responsible for orchestrating CI/CD processes by responding to Git triggers, human input, and dependency chains and environment setup, Design and document CI/CD tools configuration management.
* Implementing a Continuous Delivery framework using Jenkins, Puppet, Maven and Nexus in Linux.
* Develop PowerShell, Python and Linux scripts for Chef and U-Deploy to build end to end automations.
* Setup and installed RHEL, Centos, Ubuntu, Solaris servers.
* Created Lambda jobs and configured Roles for Lambda jobs using AWS CLI.
* Utilized Configuration Management Tool Chef & created Chef Cookbooks using recipes to automate system operations and configure Apache Tomcat, Jenkins, and Run-Deck and deployment automation.
* Performed SVN to GIT/Bitbucket migration and managed branching strategies using GIT workflow. Managed User access control, Triggers, workflows, hooks, security and repository control in Bitbucket.
* Build servers using AWS, GCP importing volumes, launching EC2, RDS, creating security groups, auto-scaling, load balancers (ELBs) in the defined virtual private connection.
* Implemented a CD delivery pipeline with Docker, Jenkins and GitLab/GitHub with AWS AMI’s.
* Installed Docker registry for local upload and download of Docker images and from Docker hub.
* Used Kubernetes to deploy, load balance, scale and manage Docker containers with namespace versions.
* Implemented a continuous deployment pipeline with Jenkins and Jenkins workflow on Kubernetes.

**Daimler Financial Services, Farmington Hills, MI Oct 2017 - Aug 2019**

**DevOps Engineer**

**Responsibilities:**

* Worked closely with the development team in the design phase and developed use case diagrams.
* Designed and implemented SVN and GIT metadata including labels, attributes, triggers and hyperlinks.
* Responsible for design and maintenance of the Subversion/GIT Repositories, views, and the access control.
* Executed user administration and maintenance tasks, also creating users and groups, reports and queries.
* Used MAVEN as build tools on java projects for the development of build artifacts on the source code.
* Developed UNIX and Perl Scripts for manual deployment of the code to the different environments and e-mail the team when the build is completed.
* Integrated Maven with shell created in Bash to automate the deployments for the Java based applications.
* Managed the development activities for the multiple server instances by enabling password less SSH communication between the servers.
* Automated the build and release management process including monitoring changes between releases.
* Used ANT and MAVEN as build tools on Java projects for the development of build artifacts on the source code and involved in branching and merging of code.
* Participated in the release cycle of the product, which involves like development QA, UAT and production.
* Implemented & maintained the branching and build/release strategies utilizing subversion/GIT.
* Deployed the Java applications into web application servers like Web logic.
* Expertise building and monitoring software projects continuously with CI tools like Jenkins and Hudson.
* Automated Build artifacts (jar, war & ear) using continuous integration tools.
* Deployed JAR, WAR & EAR artifacts into the WebLogic servers and Apache servers.
* Carried builds using MAVEN on Java projects and done deployments on various environments.
* Used the continuous integration tool Buildforge to automate the daily processes.
* Deployed puppet for configuration management and shell scripts to automate the deployment process.
* Developed, maintained, and distributed release notes for each scheduled release.
* Monitor progression of releases and keep them on track for delivery on planned release date.
* Planning, scheduling and documenting releases at code freeze periods.
* Manage source code, software builds, versioning and detect tracking on all software maintenance tasks.
* Created views and appropriate meta-data, performed merges, and executed builds on a pool of dedicated build machines.

**ENVIRONMENT:** ANT, MAVEN, Apache & Tomcat, shell & Perl Scripting, VMWare, Subversion, Jenkins, Hudson, Puppet, WebLogic, branching, SSH, Windows 2000/XP, LINUX, UNIX GIT, GITHUB, GIT, Buildforge, Java/J2EE, .NET, JIRA, XML, Windows XP, Windows Server 2003, MY SQL.

**Suntron Systems, Pune, India Jan 2015 - Oct 2017**

**DevOps Engineer**

**Responsibilities:**

* Created and designed AWS infrastructure utilizing services such as EC2, RDS, VPC and operated in networking tools Route53, AWS Client VPN, AWS Direct connect and Elastic Load Balancer.
* In Signify, I used AWS Services by creating CI/CD and maintained using EKS for providing broadband connectivity like 4G/5G and Wi-Fi infrastructure, as well gave a platform for multiple number of applications.
* Build and maintained secure AWS cloud infrastructure utilizing Chef with AWS Cloud Formation.
* Used AWS Code Pipeline continuous integration, server installation and configuration to automate application packaging and deployments by integrating it with AWS CodeCommit.
* Worked on EKS for deployment and load balancing to the application.
* Automated the infrastructure using Terraform and making it auditable by storing all the infrastructure changes in a version control system like AWS CodeCommit.
* Worked on multiple areas of Jenkins like Plugin Management, Securing Jenkins, Performance issues, Analytics, Scaling, integrating Code Analysis.
* Created and maintained the Bash deployment scripts for Apache Tomcat web application servers.
* Deployed application which is containerized using Docker onto EKS.
* Worked on AWS Elastic Beanstack for fast deploying of various applications developed with Python.
* Managed Helm charts and flux to build Kubernetes applications, templatize Kubernetes manifests, provide a set of configuration parameters to customize the deployment and managed releases of Helm packages.
* Worked on monitoring logs and metrics using Prometheus, Grafana, cloudWatch.