**Srinivas G**

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Senior DevOps Engineer

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**Professional Summary**

* Overall, 11+ years of experience and currently working as AWS DevOps, Azure DevOps, Cloud, DevOps, DevSecOps and Site Reliability Engineer with expertise in implementation of DevOps Solutions and Cloud.
* Installation and Configuration of RedHat servers.
* Install, update and upgrade packages using rpm and yum tools.
* Extensive experience with Build automation and Version Control System Administration tools like Jenkins and GIT.
* Building artifacts (war & jar) from source code using MAVEN.
* Working with ANT as a Build Tool for the building of deployable artifacts (zip) from source code.
* Create **Ansible** playbooks based on the requirement and run those playbooks.
* Setup and configure the continuous build system using Jenkins, Harness and Created **CI/CD** pipeline jobs for using Jenkins and integrating with tools GIT, Maven.
* Created Docker images using Dockerfile to support containerization of applications.
* Worked on creation and configuration of GitLab Pipelines for implementing and deploying the application in multiple environments.
* Storing Docker images into Nexus and download it from Nexus and deploy to target environments.
* Installing software packages into the Linux servers using ansible playbooks and adhoc commands.
* Experienced in designing and implementing stream processing applications using Kafka Streams.
* Familiar with Amazon Web Services (AWS) Cloud which includes services like EC2, S3, VPC, ELB, Auto scaling, Elastic IP, SQS, SNS, LAMBDA, EKS, Code Pipeline, Code Build, Code Deploy.
* Working on creation of Ubuntu and RedHat servers using IAC tool Terraform.
* Storing application code on GitLab as well as GitHub version control tools.
* We are using Okta for the enterprise login to access all tools and applications.
* Configured Static and Dynamic code checking security tools such as SAST, DAST, OWASP in the CI CD automation pipelines on Jenkins.
* Working on AppDynamics, creating Dashboards, monitor all servers are up and running, request response time.
* Contribution on migrating GitLab repository to GitHub repository.
* Configured monitoring tools Grafana, Splunk, Kibana to check the application status.
* Good knowledge & working experience on Infrastructure as Code **Terraform** and managing credentials using Vault.
* Used HashiCorp Vault to secure, stores and tightly controls access tokens and passwords used by the overall platform.
* Developed CloudFormation templates to automate the provisioning of AWS resources, including EC2 instances, VPC, S3 buckets, RDS databases, IAM roles, Security Groups and EKS.
* Worked on Azure Cloud services such as Virtual Network, VM’s, Azure CLI, DNS, File Storage, Blob Storage, Load Balancer, Active Directory.
* Onboarded new applications onto the CI/CD pipeline using existing toolsets such as XLR.
* Maintaining code in **Azure Repos**. Configured and Implementing pipelines and deploying to target environments using Azure pipelines.
* Configure **PAM** machines and run the automated scripts for remote automated login onto test suites in browser and opening certain operations.
* Configured **Autobahn** to make the entire release cycle automation and multiple releases in a day rapidly to the production servers.
* Deployed application in AWS using Code Commit, Code Build, Code Deploy and Code Pipeline.
* Maintain high availability using Load balancer for providing uninterrupted services to the end users.
* Implement **ArgoCD** for automating **Kubernetes** deployments improving deployment consistency and reducing deployment time.
* Worked with Mongo DB development (reports, schema design, map reduce functions) and migrations from SQL relational databases.
* Taken care of Release activities from gathering the tasks details, Load Plan and production deployment.
* Implemented logging mechanisms using CloudWatch Logs and set up CloudWatch Alarms for monitoring the performance and health of ECS clusters.

**Technical Skills**

Operating System : Linux, Windows

IAC : Ansible, Terraform, Chef, Puppet

Build Tools : Maven, Ant

Continuous Integrations : Jenkins, CloudBees Autobahn, Harness

Continuous Deployment : Jenkins, ArgoCD, GitLab CI/CD

Containerization : Docker, Kubernetes, Rancher

Version Control Tools : GIT, GitHub, Bitbucket, GitLab

Programming Languages : Python, Shell Script, Java, JavaScript, TypeScript

Databases : Oracle, MySQL, PostgreSQL, MongoDB

Ticketing Tool : Service Now, Jira

Web Servers : Apache Tomcat, Nginx

Testing Technologies : Junit, Selenium, Cucumber, NUnit, Cypress

AWS Services : EC2, EBS, ECS, ELB, Route53, S3, Lambda, SNS, SQS, RDS, EKS, ECR, Cloud Watch, Code Pipeline, Code Deploy, IAM, VPC

Azure Services : Azure Pipeline, Azure Repos, AKS, VM’s, Active Directory

**Project Summary**

**Client: FedEx, Tennessee USA (Remote)**

**Duration: Jan - 2022 to Present**

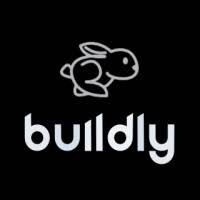
**Role: Senior DevOps Engineer**

**Description:** FedEx is an American multinational conglomerate holding company focused on transportation, e-commerce and business services based in Memphis, Tennessee. FedEx today is best known for its air delivery service, FedEx Express, which was one of the first major shipping companies to offer overnight delivery as a Flagship service.

* Version control and source code management using GIT. Installed and configured Jenkins for Automating Deployments and providing a complete automation solution.
* Implementing a CI/CD (Continuous Integration and Continuous Delivery) framework using Jenkins in Linux environment with inclusion of DevSecOps stages such as SonarQube, Nexus, JFrog Artifactory, OWASP Scan.
* Using Docker as a Jenkins node and deploying the application to target environments.
* Integrated Jenkins with version control GitLab and build tools (e.g., Ant, Maven) to automate the deployment of code changes.
* Deploying Pega application into multiple environments using CI/CD tool Jenkins and build tool as Ant.
* Designed and implemented TeamCity CI/CD pipelines for multiple projects, reducing deployment time by 30%.
* Automated infrastructure provisioning and configuration using Terraform and Ansible, resulting in improved scalability and reliability.
* Wrote Ansible playbooks with Python SSH as the wrapper to manage configurations of Nodes and Test playbooks on AWS instances using Python.
* Managing Ansible playbooks with Ansible roles, group variables and inventory files and copy and remove files on remote systems using file module.
* Implemented and managed configuration management and automation solutions using Ansible Tower to orchestrate complex deployments and system configurations.
* Developed and maintained Ansible playbooks, roles, and tasks, and managed them through Ansible Tower for centralized execution and control.
* Configured and managed role-based access control (RBAC) in Ansible Tower to ensure secure and compliant access to automation tasks and resources.
* Deployed Istio in Kubernetes clusters to enhance service-to-service communication and traffic management.
* Experience using ArgoCD to trigger fully automated builds from GitHub for the applications which needs often build releases. Utilized advantages of GITOPS in the build and release process for automation using version control tool GitHub.
* Configured ArgoCD settings such as adding new applications, creating projects and integrating with other DevOps tools.
* Designed and implemented AWS architectures following best practices, leveraging services such as Lambda, VPC, and DynamoDB to build scalable and resilient systems.
* Utilized AWS ECS Fargate for containerized application deployments, managing infrastructure as code using Terraform scripts.
* Collaborated with development and operations teams to streamline release processes and improve deployment frequency.
* Implemented monitoring and alerting solutions to ensure high availability and performance of applications.
* Working on performance testing using JMeter, created automation pipeline for executing JMeter script for checking the performance of the application.
* Configured and Deployment CI tool as GitHub Actions for building, Scanning the code, Storing Artifacts and deployed to multiple target environments.
* Configured CloudBees Autobahn templates to make the entire release cycle automation and multiple releases in a day rapidly to the production servers with all security checks.
* Breaking down applications into smaller, independent services that can be developed, deployed, and scaled independently using cloud native technologies Microservices and deploying in Docker.
* Cloud native computing technologies helps us to deploy the latest changes of our application to the end users rapidly without any distractions and zero downtime to rest of the application services.
* Cloud-native applications are software systems designed to be scalable and perform well in a cloud computing environment.
* Implemented HashiCorp Vault to securely manage and store sensitive data, such as API keys, passwords, and certificates, across various environments.
* HashiCorp Vault to integrate with identity providers (e.g., LDAP, AWS IAM, Kubernetes) for robust authentication and authorization mechanisms.
* Implemented Docker Maven plugin to build Docker images for all microservices. Utilized Docker file to build images from Java JAR files.
* Integrated HashiCorp Vault with Jenkins, Harness CI/CD pipelines to securely manage application secrets and credentials.
* Strong experience on deploying Java application to multiple environments such as Dev, PT, QA and Production.
* Implemented Kafka log compaction for restoring state in case of system failures.
* Experienced with building Kafka Connectors for messaging.
* Implemented inventory management and order processing features, utilizing Apache Kafka for real-time order updates and notifications.
* Implemented and utilized Spring Kafka API calls for processing messages on the Kafka Cluster setup.
* Good experience on Troubleshooting and solving the issues if any failures during the deployments.
* Developed Terraform templates to provision and manage AWS infrastructure as code (IaC), including EC2 instances, VPCs, subnets, security groups, and IAM roles, resulting in 15% reduction in manual provisioning time.
* Successfully created **Terraform** code to deploy a complex Microservices architecture on AWS EKS Cluster, utilizing Helm provider and resulting a 99.9% uptime and a **60% reduction in maintenance time**.
* Integrated Splunk with CI/CD pipelines and DevOps toolchain to automate log collection, analysis, and reporting processes.
* Worked on setting up Rancher Orchestration, to manage Kubernetes Clusters everywhere it runs, worked with Rancher CLI
* Executed various scripts to automate the build and release process.
* Developed test cases using Cypress to automate UI and Java Script for angular based user interface.
* Deployed and configured containerized applications using Docker and Kubernetes on AWS Cloud.
* Developed automation scripts to automate routine tasks and workflows, increasing team productivity.
* Worked closely with development teams to troubleshoot issues and optimize application performance.
* Creating Jenkins pipelines for Regression testing and generate html reports, send the results of the test cases to the testers and required members.
* Monitoring application on Prometheus, Cloud Watch, AppDynamics, Splunk, Grafana, ELK, Dynatrace for providing uninterrupted access to the users.
* Configured PAM machines and run the automated scripts for remote automated login onto test suites PC and opening certain applications.
* Collaborated with cross functional teams (firewall team, data base team, application team) in execution of this project.
* Picking the right product in the multiple products using Python script and validate it and deploy to the target environments.
* Fetch the application jar file from Nexus using TypeScript.
* Resolving build issues during build and release by conducting meetings with developers and managers.
* Taken care of Release activities from gathering the tasks details, Load Plan and production deployment.
* Installing and configuring the WebLogic servers through Ansible scripts.

**Environment:** AWS Cloud, Colo Cloud, GIT, GitLab, GitHub, Jira, Ant, Maven, Jenkins, Harness, Nexus, SonarQube, Ansible, Docker, Python, Grafana, Splunk, AppDynamics, Dynatrace, Kubernetes, Terraform, Linux (RedHat, Ubuntu), ArgoCD, HashiCorp Vault, EKS, Kafka, Pega, Istio, TypeScript

**Client: Buildly, Bangalore, Karnataka, INDIA**

**Organization: Ajackus Consulting LLP**

**Duration: Nov - 2021 to Jan – 2022**

**Role: Senior DevOps Engineer**

**Description:** The founding of Buildly was based on several startups that most of the original founding team worked on as well as the open-source projects we built or contributed to for over the last 10 years. We are all passionate open-source supporters and lifelong software developers and tech enthusiasts and have founded Buildly based on our previous experience and as an evolution of our desire to focus on user experience and craftsmanship in every phase of software development.

* Maintained and administered GIT source code repository
* Currently we are working in Agile methodology, we track everything as part of ServiceNow ticketing tool.
* Use shell script file to automate the installation of the package into Linux servers.
* Migration application data from AWS to GCP using the tools Google Transfer Service and gsutil.
* Implemented GitHub Actions CI/CD to deploy the application rapidly to the production servers.
* Managed and orchestrated Docker containers using Kubernetes for efficient deployment and scaling of applications.
* Worked on setting up Rancher orchestrator, to manage Kubernetes everywhere it runs, worked with Rancher CLI.
* Orchestrated and managed containerized applications on GKE, leveraging Kubernetes for efficient resource utilization and automated scaling.
* Designed and crafted Helm charts for various microservices and applications, encapsulating deployment configurations, dependencies, and best practices.
* Created Ansible playbooks and run those playbooks to update the servers and application patches in the servers.
* Developed test cases and executed using automation tool cypress.
* Onboarded new applications onto the CI/CD pipeline using existing toolsets such as engage portal.
* Maintain high availability using Load balancer for providing uninterrupted services to the end users.
* Implementing a CI/CD (Continuous Integration and Continuous Delivery) framework using Jenkins in Linux environment with inclusion of DevSecOps stages such as SonarQube and Nexus.
* Configured and maintained Google Cloud Platform which include services like Virtual Machines Instances, Load Balancing, Virtual Private Cloud, Cloud Storage, PostgreSQL Cloud DNS, Cloud Identity, Cloud Monitoring.
* Worked to create Cloud Identity roles to manage services in GCP.

**Environment:** GCP, Shell Scripting, GitHub, Docker, Kubernetes, Terraform, Linux (Ubuntu), Trello, Helm Charts, Nexus, GitHub Actions, Rancher, GKE, Cypress

**Client: Guardant Health, Bangalore, Karnataka, INDIA**

**Organization: TestingXperts Pvt Ltd**

**Duration: Feb - 2021 to Jul - 2021**

**Role: Senior DevOps Engineer/Build and Release Engineer**

**Description:** Guardant Health is an American biotechnology company based in Palo Alto, California.We are dedicated to helping patients at all stages of cancer live longer and healthier, through the power of blood tests and the data they unlock. Today our FDA-approved test helps inform treatment decisions for patients with advanced cancer. Our tests also detect residual and recurrent disease for patients with early-stage cancer, and will soon screen to find cancer at its earliest and most treatable stage.

* Created a continuous, automated build process that checks the source code, identifies build errors, and notifies the appropriate parties to speed up/facilitate synchronization to the most recent build.
* Integrated Lambda functions with Amazon API Gateway to create RESTful APIs and build scalable, serverless web services.
* Integrated AWS Code Deploy and configured Blue/Green Deployments for Zero application downtime.
* Proposed branching strategies for using Version Control Systems Git and Created branches, performed merges, pushing code to central repository.
* Created a Nagios instance to help monitor the production provider which gave business deep inside into the overall health of the production environment.
* We manage the configuration of multiple machines and infrastructure on AWS cloud using Terraform and Cloud Formation.
* Wrote Ansible playbooks in Yaml to manage configurations, Orchestrations and deployments to remote machines.
* We deploy the application and deliver them as containers on the platform Kubernetes and end of the day we are taking care of monitoring these applications on Kubernetes that I deployed as containers and we also monitor Cloud Infrastructure.
* Experience in setting up the build and deployment automation for Terraform scripts using Jenkins.
* Worked with NoSQL database MongoDB, performing various operations.
* Maintained JIRA for tracking and updating project defects and tasks.

**Environment:** AWS, EC2, S3, Elastic Load Balancer, EKS, VPC, Autoscaling, Route53, PostgreSQL, Lambda, Cloud Watch, Cloud Trail, CloudFront, IAM, RDS, Jenkins, Maven, Terraform, Docker, Kubernetes, Helm, Nginx, Jira, GitLab, Linux (Ubuntu), Nagios

**Client: AEC Profiles, Visakhapatnam, Andhra Pradesh, INDIA**

**Organization: WEB INDIA**

**Duration: Jun- 2017 to Feb- 2021**

**Role: DevOps Engineer/Build and Release Engineer**

# Description: AEC Profiles is a AI Project Knowledge Management. We help organizations integrate AI tools with their project data, content, and knowledge to obtain new insights, enhance decision making, and outperform their rivals.

* Configured and Implementing CI/CD (Continuous Integration/ Continuous Delivery) framework using **Azure Pipelines**.
* Created and configured VM’s and Virtual Network.
* All the machines are Ubuntu servers created on Microsoft Azure.
* Created and Maintained pipelines to manage the IAC for all the applications.
* Assigned RBAC Roles using Organization Active Directory Confidential the subscription Level to grant accesses only to required members based on Least-Access privileges.
* Acted as Build and Release Engineer, deployed the services by Azure DevOps pipeline.
* Created Azure services using ARM templates (JSON) and ensured no changes in the present infrastructure while doing incremental deployment.
* Worked on implementing backup methodologies by power shell scripts for Azure Services like Azure SQL Database, Key Vault, Storage Blobs, App Services etc.
* Created Docker container images by tagging and pushing the images.
* Benefit of using **Azure DevOps** is no need to depend on open source and third-party tools, everything provided by Microsoft Azure. It helps reducing **50%** of time and quickly deploy latest application changes to production for accessing customers.

**Environment:** Azure, Azure DevOps, Azure Pipelines, Azure Repos, VM’s, Ubuntu, Load Balancer

**Client: WEB INDIA, Visakhapatnam, Andhra Pradesh, INDIA**

**Duration: Jun- 2016 to May- 2017**

**Role: DevOps Engineer/Build and Release Engineer**

**Description:** WEB INDIA is an organization, creates their own products and given to the customers to use it their premium services and also WEB INDIA helps businesses Get online and promote their products and services.

* Developed automation solutions leveraging shell and Java scripts to increase operational efficiency.
* Integrated GitHub, Shell Script into CI/CD pipelines, automating the build and deployment processes seamlessly.
* Agile Scrum Methodology has been followed for the development process.
* Launching Amazon EC2 Cloud Instances using Amazon Images (Linux/ Ubuntu) and configuring launched instances with respect to specific applications.
* Worked as a system engineer for the build and deployments process on the enterprise server.
* Worked with other operation support teams to improve process flow.
* Worked closely with the vendors to make sure solutions are implemented correctly.
* Worked with vendors and datacenter technicians for installing/troubleshooting/replacing hardware as necessary.
* Managed the installation, configuration, and administration of IBM WebSphere Application Server across multiple environments, ensuring high availability and performance.
* Deployed, monitored, and maintained enterprise Java applications on WebSphere, facilitating seamless integration and efficient operation.
* Created Jenkins pipelines with multiple stages and installed required plugins to build the code and generate artifacts.
* Implemented webhooks with Jenkins for continuous integration and build the code.
* Designed and implemented interactive and visually appealing dashboards using Grafana.

**Environment:** AWS, Jenkins, GitHub, Linux, Grafana, Nexus and Maven

**Client: Vodafone, Bangalore, Karnataka, India**

**Organization: Saritasa Technologies**

**Duration: Sep- 2013 to May- 2016**

**Role: DevOps Engineer**

**Description:** Vodafone is a leading technology communications company in Europe and Africa, keeping society connected and building a digital future. Vodafone owns and operates networks in 21 countries, with partnered networks in 44 further countries. It’s Vodafone Global Enterprise division provides telecommunications and IT services to corporate clients in 150 countries.

* Passionate about new knowledge and innovation. Ability to grasp technical concepts quickly and apply that knowledge to DevOps efforts within the team.
* We managed the configuration of Multiple RedHat Linux machines on AWS and Deploy application into target environments.
* Created a continuous, automated build process that checks the source code, identifies build errors, and notifies the appropriate parties to speed up/facilitate synchronization to the most recent build.
* Maintained and Administered Git source code repository and GitHub enterprise.
* Implemented Maven as the build tool on Java projects for the development of build artifacts on the source code.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins and GitHub and AWS AMI’s.
* Implemented new Docker container creation process for each GitHub branch gets started on Jenkin as Continuous Integration server.
* Managed Maven scripts to automation of build process on MAVEN build tools to test the application manually and run the Junit test suites in TDD.
* Installing plugins in Jenkins as per project requirements.
* Created Docker container images by tagging and pushing the images.
* Knowledge in building distributed, highly available applications.
* Developed and maintained bank’s strategic developer enablement platform with a view to improving scalability, reliability, performance, and resilience.
* Strong knowledge of the HTTP protocol and ability to understand decipher the HTTP conversation.
* Ability to work at a high level of professionalism and quality with customers.
* Developed tools and frameworks to improve security, reliability, maintainability, availability, and performance for the technology foundation of our platform.
* Agile Scrum Methodology has been followed for the development process.

**Environment:** AWS, EC2, RedHat, Jenkins, Docker, Jira, Nexus, SonarQube, Maven, AWS AMI

**Education**

* **Bachelor of Technology in Computer Science and Engineering (CSE)**

*Jawaharlal Nehru Technological University Kakinada, IN* *Aug 2013*