**Sudheer Koritala**

**DevOps Engineer**

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**Professional Summary:**

Around 10 years of hands-on experience supporting, automating, and optimizing mission-critical deployments in Cloud technologies, leveraging configuration management, CI/CD, and DevOps processes using tools like **AWS, GIT, GitHub, Maven, Jenkins, Ansible, Azure-DevOps, Terraform, MongoDB, Nagios, SonarQube, Nexus, JIRA, Docker, Kubernetes, Web Application servers like WebLogic and Apache Tomcat.**

* Proficient in developing Continuous Integration/ Delivery pipelines.
* Good Experience with automation/ integration tools like **Jenkins**, **Azure-DevOps.**
* Migration from **SVN** to **Git** &**GitHub** to **GitLab**.
* Good understanding of Infrastructure as Code (Programmable Infrastructure) using tools like **Ansible**, and **Terraform**.
* Hands-on Knowledge of major cloud service providers, like **AWS,** **Azure,** etc.
* Configured AWS services like **S3**, **IAM**, **CloudFormation**, **Auto scaling**, **ELB**, **Cloud Watch**, **SNS** **MySQL, and PostgreSQL** for supporting web application operations.
* Hands-on knowledge of software containerization platforms like **Docker** and container orchestration tools like **Kubernetes**.
* Excellent experience in deploying IaaS, and PaaS resources in Azure using Terraform through DevOps pipelines.
* Extensive experience in designing, implementing, and administering Java EE applications on WebLogic Server.
* Proficient in Groovy scripting language for various applications and frameworks.
* Proficient in deploying and managing applications on clustered WebLogic environments.
* Expertise in configuring and optimizing WebLogic Server performance and security settings.
* Good understanding of the Agile operation process in the DevOps team (Build & Release automation, Incident, and Change Management Environment,) to deliver an end-to-end continuous integration/continuous delivery product in an open-source environment using various tools.
* Expertise in PowerShell/Shell scripting with a focus on DevOps tools, CI/CD, and Azure Cloud.
* Management and creation of Jenkins deployment scripts based on **Pipeline/Groovy**.
* Worked on setting up AWS accounts per environment and configured **VPC** respectively with public and private subnets.
* Implemented and managed OpenShift clusters for container orchestration, facilitating seamless deployment and scaling of applications.
* Automated deployment workflows using OpenShift pipelines, reducing deployment time by X%.
* Strong understanding of version control systems (e.g., Git) and their integration with CI/CD pipelines.
* Proven ability to troubleshoot and resolve issues related to CI/CD pipelines using shell scripting techniques.
* Familiarity with industry best practices for CI/CD, continuous integration, and continuous deployment in .NET development.
* Excellent collaboration skills, working effectively with cross-functional teams to implement and optimize CI/CD processes.
* Defined AWS Security Groups which acted as virtual firewalls that controlled the traffic allowed to reach one or more AWS EC2 instances.
* Designed, Installed, and Implemented **Ansible** configuration management system.
* Experience in writing **Ansible Playbook** to configure servers, and maintain dynamic inventory and app deployments.
* Used **Ansible** to manage Web applications, Environment configuration Files, Users, Mount points, and Packages.
* Automated various infrastructure activities like continuous deployment, application server setup, stack monitoring using **Ansible** playbooks, and integrated Ansible with Jenkins.
* Implemented **Ansible** AWX for managing complex network deployments by adding control, knowledge, and delegation to Ansible-powered environments.
* Experienced with **Atlassian Bitbucket** as a code repository and Managed Git flow workflow, repository access control, security, and backups.
* Automating Stash processes using **Groovy**.
* Created **Jenkins Pipeline** from scratch till production.
* Regular Build jobs are initiated using the **Continuous Integration** tool with **Jenkins**.
* Expert in performance monitoring tools like **Prometheus**, **Grafana**, **ELK**, **New Relic,** **Nagios**, **AWS CloudWatch, and Azure insights.**
* Participated in the release cycle of the product which involved environments like **Development**, **QA**, **UAT,** and **Production**.
* Designed strategies for optimizing all aspects of the continuous integration, release, and deployment process using container and virtualization techniques such as **Docker and Kubernetes**.
* Having good knowledge of creating pipeline scripts in Jenkins using **Shell language** for **continuous integration and continuous deployment.**
* Efficient experience in using **Jfrog Artifactory** for Maven builds.
* Having the ability to write automation scripts for configuring servers and services.

**Technical Experience:**

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| --- | --- |
| Cloud Platforms | AWS (EC2, VPC, IAM, Route53, ELB, S3, EBS), Azure (VM, VNet, Blob, App services) |
| Configuration Management Tool | Ansible |
| Continuous Integration and Continuous Deployment  | Jenkins, Azure DevOps |
|  Build Automation Tools | Maven, Gradle |
| Distributed Version Control System  | GitLab, Bitbucket, GitHub |
| Scripting Language and Programming Language | Groovy (Jenkins pipeline Script), Shell, YAML, Power Shell |
| Web Servers &Application Servers | Nginx, IIS, Apche2, WebLogic, Apache Tomcat |
| Containerization Tool | Docker |
| Container Orchestration Tool | Kubernetes |
| Monitoring Tools | Nagios |
| Artifactory Management | Jfrog, SonarQube, Sonatype Nexus |
| Operating System | Linux, UNIX, All windows Platform |

**Professional Experience:**

**Client: Honeywell, Charlotte, NC**             **Oct 2023 - Present**

**Role: DevOps Engineer**

**Responsibilities:**

* Worked on **Microsoft Azure** (Public) Cloud to provide IaaS support to clients. Set up Automation to create Virtual Machines through Power Shell Script and Azure Portal, Created and managed Storage Account and Affinity Group in **Azure Portal**.
* Configured Site-to-Site **VPN** Connectivity. Configured Window Failover Cluster by creating Quorum for File sharing in **Azure Cloud**.
* Designed **AZURE Resource Manager (ARM)** templates and custom-build steps using PowerShell. Identified and logged defects in VSTS and interacted with developers to prioritize the issues.
* Defined resources and specified deployment parameters to **Azure Resource Manager (ARM)** templates to create a resource group of virtual machines.
* Angular applications can leverage CI/CD pipelines to automate the build, test, and deployment processes.
* Converted existing **Virtual Machine** from Standard to Premium Storage Account. Involved in Patching and Validating **Virtual Machines in Azure**.
* Embraced Infrastructure-as-Code and used **Continuous Integration** / Continuous Delivery Pipelines to handle the full cloud-native application lifecycle.
* Wrote **Puppet** manifests and modules to deploy, configure, and manage servers.
* Create and maintain fully automated **CI/CD** pipelines for code deployment using Groovy.
* Generated Docker files to build **Docker images** and leveraged **Docker containers** in **Kubernetes**.
* Built and deployed **Docker containers** to break up monolithic apps into microservices, improving developer workflow, increasing scalability, and optimizing speed.
* Automated build and deployment using Jenkins to reduce **human error** and speed up production processes.
* Security and access management: Managing user accounts, roles, and permissions within PCF. This involves granting appropriate access to developers, operators, and other users while ensuring the security of the platform.
* Angular applications often require backend services, APIs, or databases. By automating the provisioning and configuration of the required infrastructure components, you can easily set up and manage the necessary resources for Angular applications.
* Reduced deployment time for critical agile project infrastructure from ~1 month to 2 days.
* Provided production and pre-prod support for multiple applications involving Java, involving tools like **Jenkins, Kubernetes,** etc.
* Collaborated with development teams to optimize application performance on OpenShift platform.
* Managed **GitHub** repositories and permissions, including branching and tagging.
* Created **YAML** templates and updated packages of various applications using **Ansible Playbooks**.
* Tested procedures to unify streamline and automate application development and deployment. Procedures with RedHat **Linux container** technology using **Kubernetes**.
* Used Spring config server for centralized configuration and Splunk for centralized logging. Used Concourse and Jenkins for **Microservices** deployment.
* Automated installing the **RedHat Linux** packages and administering RedHat Linux service using Ansible and automating product installation configuration.
* Consumed **REST services** in the **UI** service layer with the help of **HTTP** and resource providers.
* Regularly participated in Technical and Used Case review meetings for various functionalities in the application.
* Deployed the applications into **CD/CI** using **Jenkins** from development to production.
* Test, build, design, deployment, and ability to maintain continuous integration and continuous delivery process using tools like **Jenkins, maven Git,** etc.
* Regularly participated in Technical and Used Case review meetings for various functionalities in the application.
* User Management: You handle user access and permissions on the PCF platform. This involves creating user accounts, managing roles and permissions, and providing user support.
* Ability to automate tests, deploy the code, and monitor.
* Generated the scripts using **shell and bash**.
* Work in close coordination with the development and operations team such that the application is in line with performance according to the customer's expectations.
* Helped the team in analyzing the P0 and P1 issues and assisted in fixing them with the help of Splunk and logging onto the servers.
* Application Lifecycle Management: You oversee the deployment, scaling, and updating of applications on the PCF platform. This includes managing application instances, routing, and troubleshooting application-related issues.
* Involved in Interface Testing (**API testing**) and ensured data and control were working properly between middleware and backend systems using complex **Application Programming Interface** **(API).**
* Involved in Debugging the Production P1 and P2 issues and resolving them with permanent fixes.
* Ran Complex Oracle queries for **Data Analysis** and Reporting.

**Client: Navy Federal Credit Union**, **Vienna, VA**              **Jan 2022 – Sep2023**

**Role: DevOps Engineer**

**Responsibilities:**

* Involved in the installation and configuration of servers like Jenkins, and SonarQube.
* Installed SonarQube Server (Code Quality Analysis) and configured through Jenkins to push the source code and Unit test reports and Code Coverage sent to the SonarQube server.
* Created the CI/CD Pipeline in Jenkins for Frontend applications ReactJS and NextJS Deployed the Static code to S3 and Configured S3 Bucket into CloudFront.
* Created the CI/CD Pipeline in Jenkins for Backend application NodeJS and deployed it to Lambda Serverless and integrated lambda into API Gateway AWS Service.
* Created the CI/CD Pipeline in Jenkins for Dockerfile Python Machine Learning application and built the Dockerfile, pushed the docker image to Elastic Container private registry, and Image integrated into AWS SageMaker.
* Provisioning AWS services like EC2, Security Groups, VPC, RDS, Amazon Sage Maker, and Api Gateway using Terraform.
* Provisioning AWS Services like S3, CloudFront, Certificate Manager, Route53.
* Proficient in .NET development with hands-on experience in creating automated CI/CD pipelines.
* Skilled in utilizing shell scripting tools to automate various aspects of the CI/CD pipeline.
* Demonstrated expertise in designing and implementing efficient CI/CD workflows for .NET projects.
* Experienced in leveraging shell scripting to automate build, test, and deployment processes in the CI/CD pipeline.
* Proficient in integrating and configuring CI/CD tools with .NET frameworks, such as MSBuild and NuGet.
* Automated configuration management and deployments using **Ansible playbooks**and**YAML**for resource declaration. And creating roles and updating **Playbooks**to provision servers by using **Ansible.**
* Used **AWS Route53**, to route the traffic between different availability zones. Deployed and supported Mem-cache/AWS Elastic Cache and then configured **Elastic Load Balancing (ELB)** for routing traffic between zones.
* Creating and updating autoscaling groups as per the requirements for our infrastructure.
* Migration from GitLab to GitHub and configured complete CICD pipelines.
* Initiated **Cloud Watch**alerts for instances and using them in **Auto-scaling**launch configurations.
* Experience with WebLogic scripting tools such as WLST and Jython
* Understanding of WebLogic monitoring and management tools such as Oracle Enterprise Manager (OEM) and WLSDM
* Extensive exposure to Configuration Management policies and practices with regards to **SDLC** along with automation of scripting using **BASH/Shell scripting.**
* Worked with **IAM** service creating new **IAM** users & groups, defining roles and policies, and Identity providers.

**Environments:**  Git, GitHub, Jenkins, AWS, SonarQube Cloud, Ansible, WebLogic, .Net, Docker.

**Client:** **Eli Lilly & Co, Indianapolis, IN Nov 2020 - Dec 2021**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* SonarQube install in AWS UBUNTU server and configure the AWS RDS MySQL database.
* Deployed infrastructure on AWS utilizing EC2, RDS, VPC and Managed Network and Security, Route 53, Direct Connect, IAM, AWS S3, Glacier and Cloud Watch Monitoring Management.
* Provisioned Linux machines on AWS, created AMIs, user administration on AWS, assigned Elastic IPs, created machines under VPC, configured autoscaling, and defined cloud formation JSON templates (CFT).
* Virtualized the servers on AWS using Docker, created the Docker files, and version-controlled them.
* Implemented Cloud Formation Templates to provision and auto-deploy EC2 Instances.
* Automate Deployment using Configuration Management tools like Ansible to provision Amazon AWS Instances to enable Continuous Deployments.
* Experience using the DevOps tool Terraform in provisioning AWS machines. Implemented a continuous deployment (CD) pipeline involving Open stack, and Ansible to complete the automation from commit to deployment.
* Experience in integrating WebLogic with other middleware technologies such as Oracle Service Bus, Oracle SOA Suite, and Oracle Identity Management
* Familiarity with WebLogic clustering and load balancing techniques for high availability and fault tolerance
* Knowledge of WebLogic best practices and standards for the development, deployment, and maintenance of enterprise applications.
* Developed and maintained Groovy scripts to automate tasks and streamline processes.
* Implemented Groovy scripts to enhance functionality and improve efficiency in software projects.
* Collaborated with cross-functional teams to design and develop Groovy scripts for system integration and data manipulation.
* Utilized Groovy scripting for build automation, continuous integration, and deployment processes.
* Created custom Groovy scripts for testing frameworks like Spock or JUnit to ensure software quality and reliability.
* Implemented and designed AWS virtual servers by Ansible roles to ensure deployment of web applications.
* Created a Lambda service to take EBS Volume snapshots and configured CloudWatch to run the service every hour.
* Managed deployment automation using Docker, and Terraform to automate system operations.
* Created Master-Slave configuration using existing Linux machines and EC2 instances to implement multiple parallel builds through a build farm.
* Experience in Installing, setting up & Troubleshooting Ansible, creating and automating platform environment setup through Ansible playbooks in YAML.
* Managed local deployments in Kubernetes, creating local clusters and deploying application containers.
* Container management using Docker by writing Docker files and setting up the automated build on Docker HUB and installing and configuring Kubernetes.
* Used Kubernetes to deploy scale, load balance, and manage Docker containers with multiple namespace versions.
* Managed Ansible Playbooks with Ansible modules, implemented CD automation using Ansible, managed existing servers, and automated of build/configuration of new servers.

**Environments:** AWS, Docker, Kubernetes, OpenStack, Aws S3, Python, Ansible, WebLogic, Git, SonarQube, Shell Scripting, Terraform

**Client: CareSource, Dayton, OH Nov 2018- Oct 2020 Role: Azure DevOps Engineer**

**Responsibilities:**

* Deployed Azure Kubernetes Services (AKS) cluster, Web apps Azure app services, Azure application gateway, Azure DNS, Azure traffic manager and Azure virtual machines, Storage accounts, **VNets**, and Storage Accounts using terraform code through Azure DevOps pipelines.
* Configured **VNet** peering, and site-to-site VPN using PowerShell and express route as per the project requirement.
* Created Inbound/Outbound rules in NSG as per the application/customer requirements.
* Automated various Azure infrastructure resources using Azure DevOps pipelines.
* Implemented cluster services using docker and Azure Kubernetes services to manage local deployments in Kubernetes by building a self-hosted Kubernetes cluster using Azure CICD pipeline.
* Moved all AKS container logs, application logs, event logs, cluster logs, and diagnostic logs into Azure event hubs and then to Splunk for monitoring.
* Managed Azure DevOps build and release pipeline, setting up new reports and managing the permissions for various git branches.
* Deployed micro services including provisioning Azure environment using terraform.
* Build Infrastructure as code (IaC) templates for spinning up VMs, VNets, storage accounts, SQLDB, Azure Key Vaults, etc.
* Performed detailed root cause analysis on the incidents and problems and works and suggested workarounds and/or solutions for recurring issues.
* Experience in configuring log analytics workspace and configuring many alert rules.

**Environment:** Azure IaaS, PaaS, ARM templates, PowerShell, Terraform

**Client: American Airlines, Dallas, TX Sep 2017- Oct 2018**

**Role: DevOps Engineer**

**Responsibilities:**

* Defined and Implemented Change Management and Release Management Processes, Policies and Procedures.
* Implementing a Continuous Delivery framework using Jenkins, Ansible, Maven, Shell & Artifactory in a Linux environment.
* Continuous Delivery is being enabled through Deployment into several environments of Test, QA, Stress, and Production using Jenkins.
* Worked on creating the Docker containers and Docker consoles for managing the application life cycle.
* Experience in Jenkins monitoring external jobs, distributed builds, and plugin management.
* Handling deployment of different applications like war files, jar files, and Enterprise archives (EAR) on Web Logic servers using Admin console and WebLogic Deployer utility.
* Monitoring error logs, JVM heap size & Perm size, stuck Threads, and tuning parameters for optimization of Web Logic Server.
* Integrated Build Process through Jenkins to SCM tools like GitHub.
* Setup and configuration of Web servers using Apache and NGINX.
* Used Groovy scripting for database manipulation, including data retrieval, updates, and transformation.
* Integrated Groovy scripts with existing Java codebases to extend functionality and improve performance.
* Troubleshot and debugged Groovy scripts to identify and resolve issues, ensuring smooth operation of systems.
* Automate the builds and deployment of JAVA projects using Maven and Jenkins.
* Managed and monitored the server and network infrastructure using Nagios.
* Performed all builds on time per schedule and resolved any build and compile issues within the allotted time.
* Responsible for interacting with the development team to resolve the issues in the daily builds.
* Creating and running automated nightly build to discover newly produced bugs earlier, reducing bug fixing time and configuring the SFTP mail chain.

**Environments:** Git, GitHub, Gradle, Apache Maven, Jenkins, Azure-DevOps Pipeline, SonarQube Server, Nginx, Docker

 **Client: Innoplus Tech Solution, Hyderabad, India Nov 2013- Jan 2016**

**Role: Build-Release Engineer**

**Responsibilities:**

* Primary duties include building & Deploying the Java applications onto different environments Dev, QA & UAT.
* Creation, Management, and Configuration of Virtual Machines, Clone and Templates.
* Hands-on Experience on Jenkins, Developing Custom Jenkins Plugins,
* Developed Jenkins Plugins which integrates our In-house tools with Jenkins.
* Implemented E2E pipeline in Jenkins which would do the below activities:
* Poll the SCM for new commits using SCM and SVN.
* Created and maintained documentation of build and release processes and application configuration to comply with audit requirements and Industry best practices.
* Produced release notes and other build-related documentation.
* Developed scripts using Python, Bash, and Batch files for automation of activities and builds.
* Build the code using build tools using Maven, Ant, etc.
* Build scripts using ANT and MAVEN build tools in Jenkins.
* Analyze and create daily reports on the status of server backups on the intranet and extranet.
* Provide complete phone support to customers.
* Designed and implemented automation deployment using to promote major releases, monthly releases, and patches from Development to Integration/QA, Staging/UAT, and Production.
* Leveraging project-specific knowledge from developers, resolved code conflicts during merges, and provided insight as needed.

**Environments:** Java/J2EE, Subversion, ANT, Maven, Jenkins, Python, UNIX, Shell scripts.

**Education Details:**

* Bachelor Of Science from Acharya Nagarjuna University – (Jul 2005 – May 2009)
* Masters in information systems technologies – Wilmington University, DE – (Mar 2016 – Aug 2017)