**M Anees**

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**PROFESSIONAL SUMMARY:**

* Seasoned DevOps and Cloud Engineer with around 13 years of overall industry experience and 9+ years working with DevOps tools and technologies.
* Extensive experience in automation, configuration, and deployment on WebSphere and Cloud environments, with additional expertise in Kafka, Redis, Flink, and Microservices.
* Hands-on experience in working with AWS resources like IAM, EC2, EBS, S3, ELB, VPC, ECS, Lambda, Route 53, Auto Scaling, CloudWatch, CloudFront, CloudTrail, RedShift, CodeCommit, CodePipeline, CodeDeploy, CodeBuild, SQS, SNS, ElasticSearch, and Cloud automation.
* Proficient in working with various DevOps tools such as Jenkins, Terraform, Ant, Maven, Gradle, Ansible, GitLab, Docker, and Kubernetes.
* Strong skills in building, maintaining, and troubleshooting CI/CD pipelines using Jenkins, Bamboo, and integrating them with Kafka for message streaming.
* Experience in implementing distributed, fault-tolerant, and scalable Microservices architecture using Docker and Kubernetes.
* Maintained customer relationship management databases, both relational (MySQL, PostgreSQL) and NoSQL (MongoDB, Cassandra, Redis).
* Expertise in Java and scripting languages like Groovy, Bash, Shell, and Python for infrastructure automation and application deployments.
* Experience in working with cluster management and orchestration features embedded in Docker Engine and created custom Docker container images, tagging, pushing the images and Dockers consoles for managing the application of life cycle.
* Played an important role in automating the deployments on AWS using GitHub, Terraform, Chef and Jenkins.
* Worked with Kubernetes to provide a platform for automating deployment, scaling, and operations of application containers across clusters of hosts and managed containerized applications using its nodes.
* Integrated Kubernetes with network, storage, and security to provide comprehensive infrastructure and orchestrated container across multiple hosts.
* Recognized for excellent communication and technical skills, capable of handling independent contributor (IC) roles with ease. Well-versed in AWS GenAI and machine learning basics.
* Experience in implementing software development methodologies like Agile, SCRUM with best practices applied.

**TECHNICAL SKILLS:**

* Operating Systems: RHEL, CENTOS, SUSE, Windows servers, Ubuntu, UNIX, Solaris.
* Cloud Technologies: AWS (EKS, S3, RDS, Lambda, CloudFormation, IAM, VPC, etc.), Azure
* Application Servers: WebLogic, Apache Tomcat, JBOSS, WebSphere
* Automation Tools: Puppet, Chef, Docker, Ansible, Jenkins, Terraform, Kubernetes, Git
* Virtualization: VMware, Windows Hyper-V, vSphere, KVM, Virtual Box
* Messaging & Streaming: Kafka
* Data Processing: Flink
* Version Control: Git, SVN, Bitbucket, CVS
* Database Technologies: Oracle, SQL Server, MySQL, NoSQL, MongoDB, Cassandra, DynamoDB, Redis
* Scripting: Python, Groovy, Shell scripting, PowerShell, YAML, JSON
* Monitoring tools: Splunk, Nagios, ELK, Dynatrace, AppDynamics, New Relic, DataDog
* Networking Protocols: TCP/IP, NIS, NFS, DNS, DHCP, SMTP, FTP/SFTP, HTTP/HTTPS

**PROFESSIONAL EXPERIENCE:**

**Apple – Austin, TX Dec 2023 - Present**

**Role: DevOps Engineer**

**Responsibilities:**

* Manage AWS-based infrastructure, using Terraform Enterprise for cloud provisioning, configuration, and scalability improvements.
* Create and manage Jenkins pipelines to automate build and deployment processes for EKS clusters, ensuring minimal downtime and high availability.
* Develop and troubleshoot Bash and Python scripts for automating routine tasks, configuration management, and infrastructure monitoring.
* Utilize Docker and Kubernetes to containerize and orchestrate applications, improving deployment efficiency and resource utilization.
* Enhance system reliability and performance with robust monitoring and alerting, using tools like CloudWatch and AppDynamics.
* Implement Puppet and Ansible scripts for consistent configuration management and streamlined application provisioning.
* Developed and enhanced Jenkins pipeline code in Groovy for continuous integration and deployment.
* Built server automation with CI/CD tools like Jenkins, Maven, and managed GitLab repositories with Nexus for artifact management.
* Designed automated workflows in Control-M and integrated Kafka to enable real-time data streaming and messaging in microservices.
* Configured network and server monitoring using Grafana, ELK stack, and implemented log analysis in Elasticsearch for microservices.
* Worked on Redis as a caching layer and configured Flink for stream processing in high-availability setups.
* Played a key role in containerized deployments and automated Kubernetes deployments for microservices applications, optimizing system performance.
* Configured network and server monitoring using Grafana, ELK stack with Nagios for notifications and installed/configured monitoring tool Nagios for monitoring the network bandwidth and the hardware status.
* Created a Kubernetes cluster of with multiple nodes of EC2 instances using Kops.
* Managed a PaaS for deployments using Docker, Ansible that reduced considerably deployment risks.
* Created and managed a Docker deployment pipeline for custom application images in the cloud using Jenkins.
* Installing/upgrading Jenkins infrastructure on multiple servers.
* Used GIT Hub repository to run Jenkins job for Continuous Integration.
* Creating Multi-master Kubernetes clusters to Achieve High Availability including bootstrapping nodes, docker runtime, and configuring Cluster networking using CNI plugin/flannel and administering the Clusters. Implemented a production ready, load balanced, highly available, and fault tolerant Kubernetes infrastructure.
* Wrote Ansible Playbooks with python SSH as the wrapper to manage configurations of AWS Nodes and test playbooks on AWS instances using python.

**Verizon – Tampa, FL May 2021- Nov 2023**

**Role: Sr. DevOps Engineer**

**Responsibilities:**

* Implemented and maintained WebSphere Application Server configurations for optimized high-availability environments.
* Integrated Kafka and Flink into CI/CD pipelines to support real-time data streaming for distributed applications.
* Worked extensively on scripting automation tasks and performance monitoring, using Python, Java, and Groovy.
* Managed source code repositories with Helix, and CI/CD pipelines, leveraging Terraform for infrastructure management and ensuring best practices in IaC.
* Built, deployed, and maintained scalable infrastructure on AWS, leveraging CloudFormation for automated environment setup.
* Integrated Jenkins CI/CD pipelines to manage deployment workflows for microservices applications.
* Maintained code repositories in Git, handling branching, merging, and troubleshooting code conflicts to optimize collaboration.
* Ensured smooth production deployments and handled incident management with a strong focus on troubleshooting and root cause analysis.
* Developed automation scripts in Python to streamline repetitive tasks and enhance workflow efficiency.
* Conducted root because analysis and system troubleshooting, implementing Redis for caching in database interactions and improving database query efficiency.
* Performing Root Cause Analysis (RCA) analysis, devised corrective action and prepared report as required.
* Root cause analysis of failures and documenting bugs and fixes; scheduled downtimes and maintenance of cluster.
* Maintaining strong code hygiene (Groovy, Terraform, Python, Java) and doing peer code reviews on a daily basis
* Network Monitoring, bandwidth and traffic monitoring through Splunk.
* Created and wrote shell scripts Bash, Ruby, Python, Groovy, YAML and PowerShell for automating tasks.
* Managed and monitored the server and network infrastructure using Nagios and Splunk. Extensive work on Splunk Server management including building reports, advanced searches and overall server health and maintenance.
* Worked on server onboarding log-monitoring tools.

**Altice USA – Long Island, NY SEP 2018 - April 2021**

**Role: DevOps Engineer**

**Responsibilities:**

* Designed and configured microservice-based applications, leveraging Docker and Kubernetes for containerization, and deployed in production on Kubernetes clusters.
* Utilized Kafka for messaging and Redis for distributed caching within microservices architecture.
* Supported cloud infrastructure and CI/CD pipeline setups across various teams, improving overall deployment speed and reliability.
* Managed Dockerized applications and Kubernetes clusters, optimizing resource allocation and monitoring cluster health.
* Leveraged Puppet for configuration management to ensure consistent application deployment and environment setup.
* Assisted in developing foundational understanding and workflows for AWS GenAI capabilities, aiding in initial machine learning integrations.
* Implemented AWS CloudFormation and ARM templates for IaaS/PaaS deployments, and managed EC2 instances, VPC, ELB, and S3 configurations for high availability.
* Provisioned and administered NoSQL databases like MongoDB and DynamoDB, and optimized data streaming workflows with Flink for big data processing.
* Design and architecture MongoDB Database in Tectonics and Open shift Kubernetes environment.
* Compelling blend of expertise that spans identifying and mitigating risks, implementing controls, risk mapping and ratings.
* Implemented AWS Cloud Formation Templates to provision dependencies required by the Azure IaaS, PaaS and wrote ARM templates using JSON.
* Provisioned and administered EC2 instances and configuring EBS, Simple Storage(S3) cross region replication, Elastic Load Balancer, configure Auto scaling, setting up CloudWatch alarms, Virtual Private Cloud (VPC), mapping with multi AZ VPC instances and RDS, based on architecture.
* Played a key role in automating the deployments on AWS using GitHub, Terraform, Ansible, and Jenkins.
* Collaborate with development and operations teams to ensure seamless integration of Control-M into the CI/CD processes.
* Creating Docker images using a Docker file, worked on Docker container snapshots, removing images, and managing Docker volumes
* Cutting costs off RDS infrastructure, scaling down Kubernetes nodes, and even consolidating pods into larger nodes.

**Options Clearing Company – CHICAGO, IL May 2017 – Aug 2018**

**Role: DevOps Engineer**

**Responsibilities:**

* Designed and deployed private and public cloud solutions on AWS, focusing on infrastructure scalability.
* Enhanced the application lifecycle with Jenkins, PowerShell, Ruby/shell scripts, and Groovy for automation of build and deployment processes.
* Used Kafka for event-driven microservices and implemented Redis as a caching solution for dynamic content delivery.
* Created and managed a Docker and Kubernetes ecosystem, and utilized Flink for large-scale, distributed stream processing.
* Automated infrastructure deployments using Terraform, supporting database clusters and provisioning NoSQL databases in high-throughput environments.
* Working on deploying, monitoring, and maintaining Amazon AWS cloud infrastructure consisting of multiple EC2 nodes across different environments.
* Created S3 bucket for storage and backup as well as Utilized AWS CLI to automate backups on ephemeral data-storage.
* Configure and ensure connection to RDS database running on MySQL engines.
* Developed a continuous deployment pipeline using Jenkins, Powershell, Ruby/shell scripts.
* Worked with CI (Continuous integration) and CD (Continuous deployment) methodologies with Jenkins.
* Automated Nagios services for database server, web-server, application-server, networks, file sizes, RAM utilization, Disk performances using Python script in chef.
* Performed Design, involved in code reviews and wrote unit tests in Python.
* Deployed microservices, including provisioning AWS environments using Ansible Playbooks.
* Worked in automating infrastructure deployments using security best practices and server-side languages like JavaScript and JSON.

**DHCF, Washington D.C. Oct 2015 – Apr 2017**

**Role: DevOps Engineer**

**Responsibilities:**

* Extensively involved in Version Control, Build and release Management and Deployments of the Solutions to the DEV, QA & PROD Environments leveraging DevOps (VSTS)/TFS principles/process (CI/CD) and toolsets of Visual Studio, Docker Containers.
* Successfully onboarded numerous Java, and Informatica applications onto CI/CD pipelines.
* Implemented a CI/CD pipeline involving Bitbucket, Jenkins, SonarQube, Jfrog, Ansible and XLR for end-to-end automation from commit to deployment.
* Worked on Release Orchestration tool XLR to fully automate deployments from Bitbucket to Ansible and on boarded Databases to the Build & Deployment platform.
* Set up CI (Continuous Integration) for major releases in Jenkins and docker to automate most of the build related tasks.
* Used Jenkins as a Code Deploy plugin to deploy to Jfrog and extensively worked on other tools like Ansible, for continuous integration and for all end-to-end automation functions with all build and deployments.
* Utilized Jenkins for enterprise scale infrastructure configuration and application deployments - checking out code from Git and use Ant/Maven pipelines to build Artifacts.
* Written Ansible playbook, which is the entry point for Ansible provisioning, where the automation is defined through tasks using YAML format. Run Ansible Scripts to provision Dev servers.

**Magnaquest, India Oct 2011 – Sep 2015**

**Role: System Engineer**

**Responsibilities:**

* Classified and identify the configurations Items such as documents, Source Items, Support Items and Archive items created Repository structure in the Subversion and Installing Subversion, Apache Tomcat, Application servers on Unix Servers.
* Established the change control in response to approved issues and maintained the revision management, base lining.
* Documenting the process of code promotion, defect tracking and user guide for Subversion. Maintained users’ security on SVN. Worked with MAVEN for building the application, has written MAVEN scripts and shell scripts to automate the build process.
* Installed/Configured/Managed Jenkins CI Automation and used JENKINS as a continuous integration tool for automation of daily process.
* Customized Splunk dashboards, visualizations, configurations using customized Splunk queries.
* Developed generic web service architecture using Spring Web Services, which could transform responses into SOAP, REST, & JSON allowing for rapid development and clean separation of core business logic and communication protocol.
* Developed CLI tools in bash and python for developers to create application AMIs, run instances of their AMIs, and easily identify and access their AMI instances.
* Used Amazon RDS (Relational Database Services) for the storing of the customer data on cloud and used S3 versioning when it is important to import from the Amazon Glacier.
* Written pre-commit, post-commit, post-receive hooks in GIT and responsible for merging, tagging and conflict resolution in GIT and SVN.

**EDUCATION**

* Masters in engineering management from Trine University
* Bachelors in engineering - JNTUH, India