**Akhil R chris@metaitsystems.com**

**Sr. DevOps Engineer Cell:980 304 8268**

**Professional Summary:**

* Around 9 years of IT industry experience with a specialization in **AWS**, software configuration, and DevOps. Skilled in **Linux/Windows** administration, microservices, continuous integration, and deployment.
* Proficient as a **LINUX/UNIX** System Administrator, managing applications in SUN Solaris, Red Hat Linux, and Windows environments.
* In-depth experience with **AWS** services, emphasizing on scalable storage solutions, deployment, and configuration management.
* Skilled in planning and implementing disaster recovery solutions, managing system capacity, and optimizing performance.
* Experienced in deploying and managing applications on the **AWS** platform, utilizing various **AWS** services for efficient operations.
* Proficient in server provisioning and configuration using automation tools. Experienced in script automation for various applications and repository management with tools like **JFrog, Artifactory, and Nexus.**
* Adept at integrating applications with monitoring tools for performance management.
* Implemented continuous delivery pipelines using **Ansible Playbooks, Jenkins, SonarQube**, and **Vagrant**, along with **Maven** and other software components.
* Knowledgeable in scripting languages (**Bash, Perl, Shell, Ruby, PowerShell, JSON, YAML, Groovy, Python)** and programming languages **(C#, .Net, PHP).**
* Experienced across all stages of the software development life cycle (SDLC), with expertise in both Waterfall and Agile methodologies.
* Proficient in project management and collaboration tools such as **JIRA**, Confluence, and Bitbucket.
* Experienced in implementing AWS-based backup and disaster recovery solutions.
* Skilled in setting up CI/CD pipelines in AWS environments using tools like **GIT, Docker, Maven, and Jenkins.**
* Proficient in Infrastructure as Code using **Terraform** in **AWS** cloud environments.
* Experienced in deploying and configuring log analytics tools like **Elasticsearch, Logstash, Kibana (ELK), and AWS Kinesis**, along with server monitoring using **Nagios, Splunk, AWS CloudWatch**.
* Extensive experience with configuration management tools like **Chef, Ansible, Puppet, and Octopus Deploy.**
* Proficient in Docker technologies for containerization, image management, and implementing Docker in CI/CD solutions.
* Skilled in scripting and automation to streamline administrative tasks and the build/release process

**TECHNICAL SKILLS:**

**Platforms**: Windows, UNIX, and Linux

**Web Technologies**: HTML, JavaScript, XML, JSON

**Scripting Languages**: BASH, Python, Shell, Java, SQL, NO SQL Groovy

**Tracking Tools**: JIRA, Remedy, HP Quality tracking

**Build and Release**: Ant, Maven, Gradle

**Monitoring Tools**: Nagios, Splunk, Dynatrace

**Web/App servers**: Apache Tomcat, JBOSS, WAMP, LAMP, Web sphere, Web logic.

**CI & CM Tools**: Jenkins, Ansible, Chef, Puppet, Terraform, Octopus Deploy.

**Container Tools**: Docker, Docker Swarm, Kubernetes.

**Cloud Technologies**: AWS & Azure.

**Version Control**: GIT, SVN, Clear case, Bit Bucket.

**Professional Experience:**

**Sr. DevOps AWS Engineer  
Wells Fargo, Charlotte, NC Sep 2022 to Present**

**Responsibilities:**

* Created templates to automatically deploy code on serverless services like **AWS Lambda** from a **CI/CD** pipeline.
* Worked with Docker containers and container orchestration using **AWS ECS, Kubernetes, and Terraform.**
* Created **Docker** containers using **Docker** images to test applications.
* Used Terraform to provision cloud resources such as **AWS S3 buckets, Lambda functions, API Gateway, CodeBuild, and CodePipeline.**
* Wrote Terraform scripts to automate **AWS** services like **ELB, CloudFront, RDS, EC2, security groups, Route 53, VPC, Subnets, Security Groups, and S3 Buckets**.
* Managed AWS infrastructure using **Terraform**, focusing on IaC practices.
* Maintained user accounts, **IAM Roles, VPC, RDS, DynamoDB, SES, SQS, and SNS services in AWS**.
* Designed Python scripts for Git administration in **Jenkins** for continuous delivery, including package creation, distribution, and deployment to Tomcat servers.
* Created Python scripts to automate **AWS services, including web servers, ELB, CloudFront, database, EC2**, and application configuration.
* Utilized **Ansible** for configuration management and application automation, designing playbooks, roles, and modules.
* Developed custom Ansible modules or extended existing ones to integrate with specialized systems and technologies.
* Implemented **IaC** practices using Ansible for defining and versioning infrastructure resources and configurations.
* Worked on creating modules and automation in Puppet, managing nodes, manifest files, and converting to **IaC**.
* Integrated Bitbucket with **JIRA** for issue tracking and built a monitoring infrastructure using Nagios for application servers.
* Worked in development, testing, and production environments **using SQL, PL/SQL, Python, Ruby, PowerShell, and Shell scripts.**
* Used Git for source code repositories, managing branches, merges, and tags.
* Utilized Maven as a build tool for developing build artifacts.
* Created visually appealing and interactive dashboards using **PowerBI** to provide insights to stakeholders.
* Practiced agile planning, backlog grooming, and work item management using JIRA.
* Designed, developed, and implemented **RESTful APIs**, managed API versioning, and set up API monitoring tools like **Prometheus and Grafana**.

**Environment**: AWS, AWS CloudFormation, Jenkins, Docker, AWS ECS, Kubernetes, Terraform, AWS S3, Lambda, API Gateway, CodeBuild, CodePipeline, ELB, CloudFront, RDS, EC2, IAM, VPC, SES, SQS, SNS, Git, Python2, Ansible, Puppet, Bitbucket, JIRA, Nagios, SQL, PL/SQL, Python, Ruby, PowerShell, Shell, Maven, PowerBI, Prometheus, and Grafana.

**Sr. DevOps Engineer**

**Client: Mayo Clinic, Rochester MN Dec 2021 to Aug 2022**

**Responsibilities:**

* Worked on analyzing system performance, client-to-server, and server-to-server traffic.
* Built and supported servers with a **Unix** System Admin perspective, including disk management using **LVM, SVM, ZFS, and Veritas Volume Manager**.
* Conducted patching, security hardening, and managed various tiers of software environments.
* Utilized Perl, Python, and Bash scripting for job automation.
* Performed backup and restore operations, restoring files for end-users when necessary.
* Installed, configured, and maintained **Apache, Tomcat, Samba, Sendmail, Postfix, and Mule Application Servers.**
* Created Build and Deployment Plans in **Bamboo** for building code in **Bitbucket** and deploying it on a server from **Nexus**.
* Configured and maintained **Bamboo** for implementing the CI process and integrated it with Maven for scheduled builds.
* Collaborated with a team to implement and develop **AWS services like EC2 instances, Amazon S3, Amazon RDS, Amazon Simple DB, and Amazon Elastic Load Balancing**.
* Set up specific IAM profiles per group, following **AWS** best practices to secure resources based on users and groups.
* Managed **RPM and YUM** package installations, patching, and other server management tasks, leveraging Puppet for automation.
* Installed and configured **Apache, MySQL**, and supported them on Linux servers.
* Played a key role as a DevOps enabler, specializing in **Agile, CI/CD, Cloud, Infrastructure** as Code (**IaC**), provisioning, orchestration, monitoring, alerting, and service level dashboards.
* Hands-on experience with CI tools like **Jenkins and Bamboo**, supporting scheduled builds using scripts and tools.
* Worked with **Docker, GitHub, Jenkins, and ELK (Elasticsearch, Logstash, Kibana), and deployed applications on AWS.**
* Created Docker containers and used Docker consoles for managing the application lifecycle.
* As a member of the DevOps team, designed and implemented solutions using Azure DevOps, including source code management**, CI/CD**, and application monitoring
* Configured and managed **Azure** networking components such as virtual networks, load balancers, and traffic managers to optimize cloud application performance, availability, and security.
* Had experience with various **AWS** services like **EC2, VPC, S3, ELB, Route53, SES, SNS, RDS, CloudFront, Elastic Cache, CloudWatch, and more**.
* Worked extensively in **AWS**, managing **EC2** instances, **S3, ELB, Auto Scaling, CloudFormation, RDS, VPC, Route 53, CloudWatch, IAM Roles, and SNS** subscription services.

**Environment**: AWS, Docker, GitHub, Jenkins, ELK, Azure, RDS, VPC, Route 53, Cloud watch, IAM roles, SNS, Bamboo, Agile, ELB, CloudFront, RDS, EC2, IAM, VPC, SES, SQS, SNS, Git, Python2, Ansible, Puppet, Bitbucket, JIRA.

**DevOps AWS Engineer**

**GE POWER, Chesterfield, MO Sep 2020 to Nov 2021**

**Responsibilities:**

* Designed and implemented scalable, secure cloud architecture based on **Amazon Web Services**.
* Involved in designing and deploying a multitude of applications utilizing almost all of the **AWS stack** (Including **EC2, Route53, S3, RDS, Dynamo DB, SNS, SQS, and IAM**) focusing on high-availability, fault tolerance, and auto-scaling in AWS cloud formation.
* Resolved significant AEM configuration challenges that were breaking the code delivery process.
* Migrated from the current Linux environment to the **AWS/RHEL Linux environment using AWS Server Migration Service (SMS)**. Was involved in the remediation and patching of **Unix/Linux Servers**
* Used Terraform to customize our infrastructure on AWS and configured various AWS resources.
* Worked with Chef Enterprise Hosted and on-premises - Installed **Workstation, Bootstrapped Nodes**.
* Integrating **Bitbucket/stash for Hip chat** by creating rooms for our dev teams for collaborating and configuring so that we can add new notifications, remove existing ones, or change the types of notifications that will be sent to each room.
* Set up Interaction Analytics and support indexing, transcription, and Monitoring/Discovery category-related issues.
* Used Chef for configuration management of hosted Instances within GCP. Configuring and Networking of Virtual Private Cloud (VPC).
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, and Docker, on GCP (Google Cloud Platform). Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
* Creating a fully automated build and deployment Platform and coordinating code build promotions and orchestrated deployments using Jenkins, Harness, and GitHub.
* Designing and implementing **Subversion, GIT, and Bitbucket/stash** metadata including elements, labels, attributes, triggers, and hyperlinks.
* Implement Docker-based orchestration using **Kubernetes and Open Shift**
* Writing **Ansible playbooks** to define and upload a base image, which will then get its own AMI ID for usage with **the ec2 module or the CloudFormation module**.
* Contact Center Development experience (NICE CX-One, Amazon Connect, etc..,) 5+ years of experience.
* Installed, configured, and managed **Puppet Master and Agent.**
* Implementing a **Continuous Delivery** framework using **Jenkins, Chef, Puppet, and Maven & Nexus in a Linux environment**.
* Set up and configured continuous delivery within Azure security using a combination of **Azure Resource Manager (ARM) templates and Visual Studio Team Services (VSTS).**
* Expertise in using Ansible to manage **Web Applications, Config Files, Data Base, Commands, user mount Points, and Packages**. Ansible to assist in building automation purposes.

**Environment**: SVN, Clear Case, Maven, Jenkins, GIT, Chef, Web Sphere, Jira, JBoss Application Servers, Apache Tomcat, ELK, Agile/Scrum, SDLC, Windows, Octopus Deploy, Docker, Nginx, Nagios, AWS EC-2, Route 53, S3, VPC, EMR, SQS, Auto scaling, ELB, Shell Scripts, Unix/ Linux environment.

**DevOps Engineer**

**Global Atlantic Financial Group, Indianapolis, IN March 2018 to Aug 2020**

**Responsibilities:**

* Built and managed a large deployment of **Red Hat Linux instances systems** with **Chef Automation** and provision virtual servers using vagrant and kitchen in **Oracle VM virtual box**, provisioned servers in **Amazon EC2.**
* Plans and coordinates the administration of **PostgreSQL** databases to ensure accurate, appropriate, and effective use of data, including database definition, structure, documentation, long-range requirements, and operational guidelines.
* Implemented complete CI/CD framework using **Jenkins, Chef, Maven & amp, and Nexus in a Linux environment**.
* Designed Serverless architecture for converting existing AWS infrastructure to serverless architecture with **AWS (Lambda, Kinesis)** deployed via **Terraform and AWS Cloud Formation**.
* Onboarded over 230 applications to **Octopus Deploy** to deploy to DEV, SIT, UAT, and Production Environment.
* Building/Maintaining Docker container clusters managed by **Kubernetes Linux, Bash, GIT, and Docker, on GCP (Google Cloud Platform)**. Utilized Kubernetes and Docker for the runtime environment of the CI / CD system to build, test deploy.
* Created and implemented a solid AEM backup and maintenance strategy across all GM AEM platform servers.
* Using Ansible to **Setup/teardown of ELK stack (Elastic Search, Log stash, Kibana)**
* Involved in managing Nodes automatically added/removed themselves via Puppet.
* Experienced in working on **DevOps/Agile operations** process and tools area (Code review, unit test automation, Build & Release automation, Environment, Service, Incident and Change Management).
* Used Concourse CI and pipelines to drive all Microservices builds out to the **Docker registry** and then deployed to **Kubernetes**.
* Building/Maintaining Docker/ Kubernetes-container clusters managed by Kubernetes Linux, Bash, GIT, and Docker, on GCP
* Monitored the servers and applications using **Nagios, Cacti, and Splunk.**
* Expertise in Installing and Managing **LDAP, NIS, NFS, DHCP and DNS**.
* Experience in automation testing using **Selenium WebDriver/RC/IDE/Grid, Junit/TestNG, ANT, Maven, and Jenkins/Hudson.**
* Implemented **Kafka** producer and consumer applications on **Kafka cluster setup** with the help of **Zookeeper**.
* Used Spring Kafka API calls to process the messages smoothly on **Kafka Cluster** setup.
* Wrote puppet manifests for deploying, configuring, and managing collected for metric collection and monitoring.
* Implementing new Java projects builds framework **using Jenkins & amp, maven** as build framework.

**Environment**: AWS, Jenkins, OpenShift, Jira, Bitbucket, EC2, RDS, IAM, Ansible, Terraform, Octopus Deploy, Docker, Chef, GitHub, Route53, SNS, Python2, Jinja2, ELB, Splunk, Redis, Nginx, Apache2, Celery, Linux, Jabber, J Ripper, Slack, RabbitMQ, New Relic, ETL.

**Build & Release Engineer**

**Maisa Solutions Private Limited, Hyderabad, India Sep 2014 to Oct 2017**

**Responsibilities:**

* Responsible for day-to-day Build and deployments in pre-production and production environments.
* Deployed **Puppet and Puppet Dashboard** for configuration management to existing infrastructure.
* Create Jenkins pipeline jobs for the Puppet release process for module deployment, using Kanban agile methodology for Puppet development.
* Puppet automation, installing and configuring **puppet 3. x server and agent setup, developing IHS, Web Sphere MQ 7.0, Web Sphere Application Server Automation, Apache Sol 4.x/5.x Jenkins, foremen**.
* 24/7 on-call production support. AWS automation through Puppet and Ansible environment.
* Used, vim and sublime editors for **developing Chef Recipes and Puppet classes**, Creating Puppet class ordering defining reusable methods.
* Well versed in planning, designing, and developing infrastructure automation **Puppet and Chef, for the build and release process.**
* To achieve the **Continuous Delivery goal** in a highly scalable environment, used Docker coupled with load-balancing tool **Nginx**.
* Migrated applications to the PKS and GCP cloud.
* Created and deployed Web interfaces reporting on multi-platform automated builds and test suites (**TFS build reporting, SharePoint Server, Cruise Control, and IIS**).
* Created and maintained the **Shell/Perl deployment scripts** for Windows 2008 servers.
* Responsible for the development and maintenance of processes and associated scripts/tools for automated build, testing, and deployment of the products to various developments.
* Documented the project's software release management procedures with input decisions.
* Implemented Packer-based scripts for continuous integration with the Jenkins server and deployed packer-based scripts onto the **Amazon EC2 instances**
* **Environment**: ANT, Maven, Apache & Tomcat, J2EE, shell & Perl scripting, Subversion, Jenkins, Hudson, Windows 2000/XP, Linux, Unix GIT, GITHUB, Chef.

**Education: Computer Science, Jawaharlal Nehru Technology University Hyderabad.**