**Sr. DevOps Engineer **

**Mamatha P**

**E-mail:** **mamatha.devops14@gmail.com**

**Contact: +1 (973)-920-2480**

**PROFESSIONAL SUMMARY:**

* Having 8 years of experience in data collection, analysis and management in all phases of Software Development Life Cycle with emphasis in DevOps, AWS, Linux System administration, and Software Configuration Management (SCM).
* Extensive experience includes **AWS, DevOps, Build/Release Management, Cloud Management and Change/Incident Management** performing duties such as monitoring, automation, deployment, documenting, and support and troubleshooting.
* Hands on knowledge of **Azure** **DevOps** **Boards**, **Repos**, **Pipelines**, **Artifact** and experienced with configuration management tools.
* Good experience in handling Azure DevOps CI Pipeline creation, maintenance, CD Releases.
* Worked on Azure ARM template creation customization and Created ARM templates for resource deployment.
* Configured and deployed the services on Azure ARM – App Service, Functions, Logic Apps, Storage, AKS.
* Good experience in building and configuring a virtual data center in the AWS cloud to support Enterprise Data Warehouse hosting including Virtual Private Cloud (VPC), Public and Private Subnets, Security Groups, Route Tables, Elastic Load Balancer.
* Provided highly durable and available data by creating and managing policies for the S3 data store, versioning, Life Cycle Policies.
* Experience in Container management tools like **Docker** and **Kubernetes**. Also used to manage clusters of nodes using Docker Swarm and Kubernetes.
* Managing Amazon instances by taking AMIs, performing administration and monitoring of Amazon instances like EC2 using **Amazon Cloud Watch**.
* Good Experience in Transferring Data from Data Centers to cloud using AWS Import/Export Snowball Service and AWS DMS.
* Can manage Amazon Redshift clusters such as launching the cluster and specifying the node type as well.
* Setup and build AWS infrastructure various resources, **VPC EC2, RDB, S3, IAM, EBS, Security Group, Auto Scaling, SES, SNS, and RDS** in cloud formation templates.
* Used Amazon **Route53**, to manage DNS zones, creating CNAMES, and giving public DNS names to elastic load balancers IP’s.
* Used **AWS Beanstalk** for deploying and scaling web applications; services developed with Java, PHP, Node.js, Python, Ruby and Docker on familiar servers like Apache.
* Experience in setting up CI/CD pipeline integrating various tools with **Jenkins** to build and run **Terraform** jobs to create infrastructure in AWS.
* Supported AWS Cloud environment with 120+ AWS instances and configured Elastic IP & Elastic Storage and experience working on implemented security groups.
* Experienced in creating Ansible Playbooks and Puppet Manifests to provision **Apache Web servers, Tomcat servers, Nginx, Apache Spark** and other applications.
* Experience in deploying AWS solutions using **EC2** instances, **EBS**.
* Experienced in Open Shift platform in managing Docker Containers, Kubernetes Clusters, and Mesos and implemented a production ready, load balanced, highly available, fault tolerant Kubernetes.
* Worked on Installing and configuring the applications like Docker tool and Kubernetes for the orchestration purpose.
* Collaborated with the development of support teams to set up a continuous environment with the use of Docker.
* Extensive experience working on the monitoring of the servers using tools such as **Nagios**.
* Good Expertise in troubleshooting and deployment procedures of **WebSphere, WebLogic** and **Tomcat** **application** **servers** that ensure the procedures of security, integrity and accessibility of deployed applications.
* Experienced in handling **UNIX**, **Linux** and **Windows** administration.
* Proficient in automating environment builds, administration and deployment operations using standard scripting utilities like Shell scripting and **Python**, **Shell** and **Powershell**.
* Experience in Incident and Problem Management: Finding the root cause of the problem within the SLA time providing the solution to the client.

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| **TECHNICAL SKILLS :** |
| **Programming/Scripting Languages** |  Shell, Python, Powershell |
| **Operating Systems** | Windows, Redhat Linux, Ubuntu, Unix |
| **Web/Application Servers** | Tomcat, Weblogic, WebSphere, IIS, Apache |
| **Version control** | Git |
| **CI Tools** | Jenkin |
| **CM/Provisioning Tools** | Chef, Ansible |
| **Database** | MySQL, Oracle |
| **Tracking Tools** | JIRA, Remedy, SIAM |
| **Monitoring Tools** | Cloud Watch, Nagios |
| **Virtualization Technologies** | Docker, Kubernetes |
| **Cloud** | AWS, Azure DevOps,GCP |
| **Ticketing tools** | JIRA, Remedy, ServiceNow |

**PROFESSIONAL EXPERIENCE:**

**Client:** **Molina Healthcare - Long beach, CA Feb 2020 to till date**

**Role: DevOps Engineer**

**Responsibilities**:

* Launching **Amazon EC2** Cloud Instances using Amazon Web Services (Linux/ Ubuntu/RHEL) and Configuring launched instances with respect to specific applications.
* Installed application on AWS EC2 instances and configured the storage on **S3** buckets.
* Managed **IAM** policies, providing access to different AWS resources, design and refine the workflows used to grant access.
* Worked with **git** to maintained code, deploy code through **Terraform** to Amazon Web Services.
* Deployed and managed web applications and services into AWS by using **Elastic Bean Stalk**.
* Have setup auto scaling of the infrastructure during nights to save the infrastructure costs and have drastically reduced the operational cost keeping the performance same.
* Designed AWS Cloud Formation templates to create custom sized **VPC, subnets, NAT** to ensure successful deployment of Web applications and database templates.
* Worked on Branching, Tagging, Release Activities on Version Control Tools GitHub.
* Involved in the activities of Upgrading, administering, plug-in management, and User Management and Job creation in **Jenkins**.
* Worked on virtualization of the servers using the **Docker** in the Development, Test and QA environments and performed configuration automation using Docker containers.
* Used **Jira** for creating enablers and epics which consists of stories under them and was part of the scrum model.
* Help teams on moving to cloud leveraging AWS and on prem database servers.
* Worked on change tickets for creating and handling the enterprise release management.
* Building/Maintaining **Docker**container clusters managed by **Kubernetes,** Linux, Bash, GIT, **Docker,** on GCP. Utilized **Kubernetes**and **Docker**for the runtime environment of the **CI/CD** system to build, test deploy.
* Created security groups, NACL’s, target groups, golden images and written Docker files for application deployments.
* Used various kinds of storage services like **S3, EFS, EBS** volumes for persistent data storage.
* Implemented WAF Rules and Akamai bot detection rules for preventing bot attacks, cross site scripting to the website.
* Created monitors, alarms and notifications for EC2 hosts using **Cloud Watch**.
* Documented everything in the **confluence** page and has created trees, spaces and sub-spaces in confluence for effective collaboration among different scrum teams across multiple layers of the application.

**Environment**: GIT, Jenkins, Apache Tomcat Application Server, Web Logic, Linux, Terraform, Python, Docker, AWS, JIRA

**Client: BCBS, St Louis, MO Jun 2019 to Feb 2020**

**Role: DevOps Engineer**

**Responsibilities:**

* Developed and implemented Software Release Management strategies for various applications in an **agile** environment.
* Administrated Linux and Windows environments using **Ansible, Chef** CM tools based on the needs.
* Created and Configured Jenkins server using Ansible and Shell scripts.
* Experience in Setting up the build and deployment automation for **Terraform** scripts using **Jenkins**.
* Involved in daily Scrum meetings. Also involved in Iteration/Sprint planning meeting to plan the efforts for upcoming sprint based on the priority and estimated effort.
* Participated in weekly release/Environment meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases.
* Maintained and administered GIT source code repository, GitHub Enterprise is used.
* Implemented new **Docker** container creation process for each GitHub branch gets started on **Jenkins** as **Continuous Integration server**.
* Implemented **Maven** as build tool on Java projects for the development of build artifacts on the source code.
* Worked with AWS API to manage resources on AWS for many services such as **EC2, S3, VPC, Cloud watch, ELB, Auto-scaling and SNS**, created **python** script using AWS API Calls to manage all resources deployed on AWS.
* Deployed and hosted the application on AWS using Ops Works, automated single click deployment onto AWS using Chef.
* Triggered Ansible playbooks from the Terraform instance.tf file as a local-exec call to deploy the application to the provisioned servers.
* Written Ansible playbooks to configure and install packages on server machines by connecting through SSH to trusted servers.
* Deployed services to Amazon Web Services in Docker containers, managed by Mesos/Marathon.
* Implemented testing environment for **Kubernetes** and administrated the Kubernetes clusters.
* Deployed and orchestrated the applications with **Kubernetes**.
* Experience in monitoring the logs, Application health, Infrastructure health and observing the user dashboard using Splunk.
* Maintained **JIRA** for tracking and updating project defects and tasks.

**Environment**: GIT, Jenkins, Linux, Terraform, Docker, AWS, Chef, Ansible, Kubernetes, JIRA

**Client: Accenture, India Aug 2014 to Dec 2018**

**Role: Cloud Operations Analyst**

**Responsibilities**:

* Experienced in a support role, for continuous delivery **operations** in implementing ad hoc requests.
* Responsible for analyzing the client request and providing the best solution.
* Experienced in handling **UNIX, Linux** and **Windows** administration.
* Configured Nutch crawler including seed URL lists, URL Filters and indexed Nutch crawl records into Apache Solr for full text search.
* Worked closely with development, messaging, network support teams, as the application was integrated with other products.
* Involved in testing of the web URLs and software installed and versions migrated.
* Involved in integrating and testing the third party applications.
* Configured JDBC connections, JMS servers and security settings for WAS.
* Involved extensively in **troubleshooting** the issues and finding out root cause analysis.
* Worked with the Architects on **SDLC** process being the owner of post development environments.
* Configuring, Installing and Administering the **Jenkins Continuous Integration servers**.
* Creating new build jobs, Integration testing jobs and deploy jobs in Jenkins to automate the process.
* Worked in Agile Project management Process.
* Involved in migrating projects from TFS to Azure DevOps and from Jenkins to Azure DevOps.
* Created and configured build & release pipelines in **Azure Devops** using **yaml**.
* Created Azure cli scripts to support deployments to Azure.
* Support provided on Azure Repo migration from the source repositories like Github and TFS.
* Experienced with setting, maintaining **CI/CD** for applications using **Jenkins** **CI** (Jenkin Pipeline), **AWS** code pipeline and other related tools.
* Worked on Amazon IAM and created groups & permissions for users to work collaboratively.
* Migrated VMware VM’s to AWS and managed services like **EC2, S3 Buckets, Route53, ELB, EBS**.
* Experience working on **Docker** **Hub**, creating **Docker** images and handling multiple images primarily for middleware installations and domain configurations.
* Deployed Active Directory domain controllers to Microsoft Azure using Azure VPN gateway.
* Designed, Installed and Implemented CI/CD automation system. Used Ant, Maven as a build tools on java projects for the development of build artifacts on the source code.
* Responsible for writing Cloud formation templates, AWS CLI and various other AWS services.
* Good experience in a large-scale, high-traffic, redundant, cloud-based **Iaas/PaaS/SaaS** environment at a Public Cloud provider like AWS.
* Worked in AWS infrastructure (**S3, EC2, VPC, IAM policies, Auto-scaling, Security Group, Lambda, Cloud Trail, Cloud Watch, Redshift, Elastic Search, RDS**).
* Involved in Set up of cloud infrastructure as per best practices for cloud deployments and monitoring.
* Worked on performance tuning and optimization, bottleneck problems analysis.
* Automated build and deployment process using **Shell** **Scripting**.
* Build and Deployed Java/J2EE to Tomcat Application servers in an agile continuous integration process and automated the whole process.
* Created automation scripts for day to day routine activities.
* Worked with **JIRA, ServiceNow** and **Remedy** tools for Issue Tracking and monitoring.

**Environmen**t: Jenkins, AWS, Azure devops, Tomcat, Python, Shell Scripts, Linux, UNIX, Windows, JIRA, Apache Solr, Azure Devops.

**Client: Nike, India Aug 2012 to Jul 2014
Role: IT Operations Engineer**

**Responsibilities:**

* Administering **WebSphere** applications that ensure the procedures of security, integrity and accessibility of deployed applications.
* Support of daily operations including job monitoring and troubleshooting of the **24x7** Production.
* Good hands on experience in **client/server** and **web-based** applications.
* Provided extensive support in code deploy, change management, and application level troubleshooting for the Dev, Test and **Production** environment.
* Run support provided for regular Hybris Deployments.
* Deployed applications using WAS admin Console also through scripts.
* Run **sql** scripts to update and modify the databases.
* Configured aliases and rewrite rules on the **Apache web server**.
* Installed the trading partners across the EAI platform.
* Configured B2B gateway solutions via **GXS EDI WebMethods**.
* Involved in migrating the WebSphere Application Servers on OS level management.
* Involved in Installing Upgrade Fix Packs and Migrating to latest versions.
* Troubleshooting 24\*7 production on different issues.
* Implemented various changes to the Applications based on the requirements provided.
* Managing Daily Reports for Regular Health check of Applications.
* Troubleshoot the Website environment.
* Installation of **SSL** certs on **IIS**.

**Environment**: WebSphere, Redhat Linux, GXS, EAI, IIS, Apache Tomcat, Hybris, oracle, SQL, Remedy.