**Name : Sai Raghava**

**Sr. Devops Engineer**

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**SUMMARY:**

* 9+ Years of experience in IT industry with major focus on **DevOps** Software Configuration Management and Build/Release management using different cloud services of **AWS (Amazon web service**), Microsoft **Azure** and **GCP** (Google Cloud Platform) as a major infrastructure.
* Experience in Cloud computing, **DevOps**, **CI/CD** Pipeline, Build and release management, **AWS** and **Linux/Windows** Administration Proficient in prioritizing and completing task in a timely manner. Certified **Chef** and **AWS** Developer-Associate.
* Exposed to all the aspects of Software Development Life Cycle (**SDLC**), in depth understanding of the best practices and principles of Software Configuration Management (**SCM**) in **Agile, Scrum** and **Waterfall** methodologies.
* Expertise in **DevOps**, Release Engineering, Cloud Infrastructure, and Automation. It includes **Amazon Web** Services (**AWS) Ant, Maven, Jenkins, SVN, GIT, Godthab, Clear Case, Build Forge, CVS, Tomcat and Linux** etc.
* Hands on experience on various **AWS** services like **EC2, S3, RDS, EBS, VPC, IAM, ELB, NACL, SQS, SNS, SES**, **Cloud Watch, Cloud Formation, Cloud Front, Cloud Trail, Route53**, Security Groups, Route Tables, Lambda and several other services of **AWS** family and in depth practical knowledge on other cloud services like **Azure, GCP, Open Stack.**
* In-depth knowledge of **Apache Subversion** (**SVN**) and **Jenkins**/**Hudson**/**Build** Forge Continuous Integration, Server - Installation, Configuration, Design and Administration, plus experience of extending and integrating these tools with other systems, platforms and processes using **Java, Shell Scripting** etc.
* Installing, configuring and managing the **RDBMS** and **NoSQL tools like MySQL, DB2, PostgreSQL** and **MongoDB**.
* Experience in using bug tracking systems like **Jira, Bugzilla, HP Quality Center and IBM Clear Quest**.
* Experience in **UNIX/Linux** along with **SQL** development in designing and implementing Relational Database model as per business needs in different domains.
* Designed and developed highly scalable cloud-based N-tier applications for web-based health IT systems.
* Extensive knowledge in design and development of **Java/J2EE** applications using programming languages like **Java**, Web technologies like **HTML5/CSS3, JavaScript** and frameworks like **Hibernate** and **Spring**.
* Used **scripting** languages like **Python**, **Ruby**, **Bash** and configuration management tools **Chef**, **Puppet** and **cloud Service** like **AWS**.
* Experience in dealing with Windows **Azure IaaS - Virtual Networks, Virtual Machines, Cloud Services**, **VPN**, Application Gateways and Windows **Azure PaaS** storages like Blob (Page and Block), **SQL Azure,** Resource Groups, Express Route, Traffic Manager, **VPN**, **Load Balancing**, Application Gateways, Auto-Scaling.
* Experience in using Jenkins to build pipelines to drive all **microservices** builds out to the **Docker** registry and then deployed to **Kubernetes**, Created Pods and managed using Kubernetes.
* Experienced in installing, configuring and managing **Docker** Containers, Docker Images for Web Servers and Applications servers such as **Apache Tomcat** using **Docker** and integrated with **Amazon MySQL RDS** database.
* Responsible for Continuous Integration (**CI**) and Continuous Delivery (**CD**) process implementation using **Jenkins** along with **Shell scripts** to automate routine jobs.
* Used **Clear Quest**, **Jira**, Confluence, Remedy as defect management system.
* Experience in working on version control systems like GIT, and subversion and used source code management client tools like visual **SVN, GIT BASH, GIT HUB, GIT LAB, GIT GUI, STASH** and other command line applications.
* Hands on experience in using **ANT, MAVEN and GRADLE** as build tools on **java** projects for the development of build artifacts on the source code.
* Extensive experience in configuring and managing, troubleshooting Physical, **Virtual** infrastructure in Cloud and on-premise on **Windows server, Active Directory, Networking, Storage, VMware, Hyper-V, AWS** Cloud, Microsoft **Azure (IAAS, PAAS, SAAS), MS Exchange, Office 3**65 and **Power Shell**.
* Strong command over programming and scripting languages like **C, Python, PHP, Java Script, Angular Js**, and **Bash**.
* Automated software's with continuous Integration and Continuous Delivery Tools: **Git Hub/Bit bucket, Jenkins, Ansible/Chef, and Docker.**
* Utilized the **Docker** infrastructure in Centos and Ubuntu for bringing up and managing application containers spawning across multiple deployment environments.
* Extensively worked on **Hudson**, **Jenkins** and Bamboo for continuous integration and for End to End automation for all build and deployments.
* Implemented **Hashi corp** Consul for service discovery
* Build and configure 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 LoadBalancer.
* Provide highly durable and available data by creating and managing policies for **S3** data store, versioning, lifecycle policies.
* Used **AWS lambda** to run servers without managing them and to trigger to run code by **S3** and **SNS**.

**TECHNICAL SUMMARY**

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| **Build Tools** | Ant, Maven, Gradle |
| **Programming/scripting Languages** | C, PHP, Python, JavaScript, ..NET, AngularJS, NodeJS, Unix, Bash, shell, Ruby, Perl, Scala. |
| **Configuration Management Tools** | Chef, Puppet, Terraform, Ansible |
| **Monitoring Tools** | Nagios, App dynamics, Splunk, ELK, Cloud Watch. |
| **CI/CD Tools** | Jenkins, Bamboo, Code ship, Visual studio. |
| **CI Tools** | Hudson, Jenkins and Build Forge. |
| **Container Tools** | Docker, Kubernetes. |
| **Version Control Tools** | Subversion, GIT, Tortoise SVN, Visual SVN, Bit bucket. |
| **Web/App Servers** | Apache, Tomcat, JBoss, IIS, HIS, WebSphere Application Server. |
| **AWS Services** | EC2, S3, RDS, EBS, VPC, IAM, ELB, NACL, SQS, SNS, SES |
| **Databases** | MySQL, MS Access, Oracle 9i/10g/11g, DB2, NoSQL (MongoDB, DynamoDB). |
| **Tools/IDE** | Putty, VMware, Eclipse IDE, Android Studio, SVN. |
| **Web Dev Technologies** | HTML, HTML5, CSS, CSS3, jQuery, XML, XSL, XSLT,PHP, Bootstrap, Word Press. |
| **Bug Tracking Tools** | JIRA, Service Now, JUnit, Bugzilla, Remedy, Clear Quest. |
| **Cloud Technologies** | AWS (Amazon Web Services), Microsoft Azure, Rack space (Open Stack), Google cloud. |
| **Operating Systems** | Windows NT/2000/2003/XP/VISTA/7/8/10, Mac, Ubuntu, Linux (Red Hat 4/5/6/7). |

**Educational Details:**

* Graduated in Bachelor of Science in Computer Science from Aurora’s Degree and PG college, Hyderabad, India.

**WORKING EXPERIENCE**

**Client: Citizens Bank, Charlotte, NC July 2022 – Till date**

**Role: Sr. DevOps Engineer**

**Responsibilities:**

* Responsible for Setup and build **AWS** infrastructure various resources, **VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling**, and in Cloud Formation. Built **S3 buckets** and managed policies for **S3 buckets** and used **S3** bucket and Glacier for storage and backup on **AWS**.
* Responsible for Continuous Integration and Continuous Delivery (**CI/CD pipeline**) process implementation-using Jenkins along with Python and Shell scripts to automate routine jobs.
* Responsible for the Plug-in Management, User Management, Build/Deploy CI/CD Pipeline Setup and End-End Job Setup of all the projects and Integration of Nexus Repository, Jenkins, Urban code Deploy with Patterns/Release, **Git**, Confluence, **Jira**.
* Worked closely with **JAVA** developers on **SVN** code repository and build tools like **Maven** and helped developers to integrate the code with **Jenkins** and **Archiva**.
* Design **AWS Cloud Formation** templates to create custom sized **VPC**, **subnets**, **NAT** to ensure successful deployment of Web applications and database templates.
* Produced comprehensive architecture diagrams and solutions to ensure efficient application performance.
* Developed automation scripting in **Python** (**core**) and used **Puppet** to deploy and manage **Java** applications across **Linux servers**.
* Working on documentation **Chef** basics, Initial setup of **Chef, Data bags** implementation, Coding **standards**, **Cookbook** document, Testing docs.
* Experience with **Git** doing code commits, tagging and branching. Worked on Remote repositories using **GitHub**/**Bit bucket** to clone, pull/push commits and creating pull requests.
* Implemented **Ansible** to manage all existing servers and automate the build/configuration of new servers and Involved in Configuration **Automation** and Management with **Ansible**.
* Deploying the spring boot micro services to pivotal cloud foundry (**PCF**) using build pack and **Jenkins** for continuous integration, Deployment in pivotal cloud foundry(**PCF**), binding of services in cloud and installed pivotal cloud foundry on **azure** to manage the containers created by **PCF**.
* Deployed application using **Jenkins** server and Troubleshoot build and release job failures, resolve, work with engineers on resolution.
* Prototype **CI/CD** system with **Gitlab on GKE** utilizing **Kubernetes and Docker** for the runtime environment for the CI/CD systems to build, test and deploy.
* Created projects, VPC’S subnetworks, **GKE Clusters** for environment and prod using **Terraform.**
* Installed and Configured Trident on **OpenShift** Container Platform to orchestrate storage on NetApp backends.
* Experience in setting up **MongoDB** Client and writing queries to validate data against **Mongo** Collections, **MySQL**. Installed, configured and managed **MongoDB** servers and performance tuning of **Mongo** Databases.
* Sound knowledge on **JUnit**, **TestNG** framework for Unit testing, **Maven** and **Ant** for Project building tool, Jenkins for Continuous Integration.
* Experienced in developing CI/CD pipelines and adept at working with Git, Azure DevOps, and Terraform for streamlined development and deployment.
* Strengthened security by supporting certificate-based protection for web applications and servers.
* Automated **Apache**-**web server** configuration, **DB Server** configuration, **SSSD** Configuration, **LAMP** by writing **Ruby Cookbooks** in **Chef** for any manual process and write **Python**, **Ruby scripts** to build **chef**.
* Implemented the **Docker** for wrapping up the final code and setting up development and testing environment using **Docker Hub, Docker Swarm** and **Docker** Container Network.1qwx
* Automate the Build and deploy of all internal **Java**&**SC** environments using various continuous integration tools and **scripting** languages (**Python**, **Shell**, and **Power Shell**).
* Assisted creating MVP on using **Ansible Tower** and **HashiCorp Vault** to leverage **GitOps** model.
* Experience in designing Security, Identity & Compliance to Secure User Sign-Up, Sign-In, and Access Control to web application with fallowing **AWS** services **IAM**, **Cognito**, **SAML**, and Certificate manager
* Worked on Chef Delivery for Continuous Delivery. Introduced **Hashi Corp Vault** for secure secret storage.
* Experience in Identity and Access concepts and technologies to Secure User Sign-Up, Sign-In, and Access Control web application. Such as **SAML** Federated Identity, **Cognito** user pool, authentication & authorization solution.
* Developing **Splunk** queries and dashboards targeted at understanding application performance and capacity analysis. Worked on setup of various dashboards, reports and alerts in **Splunk**.
* Experience integrating applications with advanced application monitoring tools such as Prometheus, Datadog, ELK, etc.
* Demonstrated excellence in crafting DevOps solutions for microservice platforms, driving efficiency and scalability.
* Integrating RedHat **OpenShift** Satellite. Administrating the RedHat OpenShift satellite for package management and subscription management.
* Replaced Splunk logging and analytics with an automated **ELK cluster**, increasing data capture capacity and reducing costs. System log and Cloud Trail collection using **Splunk** including Splunk installation, collector configuration and multi-indexer setup on Production Environment.
* Configured &amp; managed an ELK stack, setup the Elasticsearch ELK Stack to collect, search &amp; analyze log files from across the servers. Evaluated system logs using ELK software stack.
* Worked with **Terraform templates** for automating **VPCs, ELBs**, security groups, **SQS queues,S3 buckets**, and continuing to replace the rest of our infrastructure **YAML**, **Hashicorp** configuration language. l Also Converted the existing AWS infrastructure to serverless architecture with **AWS Lambda** and **Kinesis** deployed using terraform templates.
* Proficient in developing software applications using Microsoft technologies, with a focus on MS Azure. Experienced in deploying solutions, utilizing Terraform, and harnessing the power of Microsoft DevOps and Azure cloud services.
* Expand Red Hat **OpenShift** Container Platform solution to multiple CPU architectures.
* Creating required **Python** scripts as well as bash **scripts** to create/configure **Linux VM’s**. Created and automated the **Jenkins** pipeline using pipeline **Groovy** script for the applications.

**Environment:** AWS, GIT, SVN, VM's, Maven, Surrounded SCM, GitHub, Bit Bucket, Sonar Qube, Nexus, Jira, Jenkins, Chef, Docker, Apache Tomcat, JBoss, JUnit, Nginx, Splunk, Linux, Bash, XML, Shell, Perl, Python, Ruby, Networking, MYSQL, Dynamo DB, Amazon Redshift Database.

**Client: CVS Health, Chicago, IL NOV 2018 – June 2022**

**Role: DevOps Engineer**

**Responsibilities:**

* Worked as a **DevOps** Engineer for a team that involves three different development teams and multiple simultaneous software releases.
* Proficient in securing web services through certificate-based security (TLS/SSL), JWT, CORS, ensuring data integrity and confidentiality.
* Configure, monitor and automate **Amazon** Web Services as well as involved in deploying the content cloud platform on **Amazon Web** Services using **EC2**, **S3** and **EBS**.
* Resolving Release conflicts regarding dates and accommodating in various Release/Build windows by negotiating with customers based on priority and other factors.
* Administer, secure, and maintain multiple clusters to support a global service.
* Experience on container systems like Docker and container orchestration like OpenShift worked with Terraform.
* Addressing dependencies and handling issues with release of interdependent projects especially in the Web services area.
* Organized a daily stand-up post-deployment meeting to review all issues being tracked. Ensure every issue has an owner and that it is resolved while capturing the specific details about the issue, resolution, and which organizations and individuals provided the resolution.
* Creating storage pool and stripping of disk for **AZURE** virtual machines. Backup, configure and restore azure virtual machines using azure backup.
* Implemented containerized based applications on **Azure Kubernetes** by using **Azure Kubernetes** service (AKS), Kubernetes Cluster, which are responsible for cluster management, Virtual Network to deploy agent nodes, Ingress API Gateway, **MySQL** Databases and Cosmo DB for stateless storage of external data, and setup reverse proxy Nginx in the cluster.
* Worked with **Red Hat** **OpenShift** Container Platform for **Docker and Kubernetes.**
* Created **AZURE** automation assets, **Graphical run books, Power Shell run books** that will automate specific tasks.
* Expertise in Appling **AZURE AD** connects, configuring **ADFS** authentication, **ADFS** installation using **AZURE AD connect.**
* Setting up auto scaling of instance group using **GCPCLI** (command line tools) and **GCP** cloud environments for **DEV**/**QA** environments.
* Possessing a minimum of 2 years of experience in developing Restful web services using **Web API Core**, **Swagger**, and adept at deploying solutions to **Azure App Service.**
* Deployed and tested **playbooks** using **Docker** containers before changes pushing in **GIT**. We used Gradle and **docker** to create a **docker** container that had our **java** application running on it.
* Developed **python** and **shell Scripting** for the automation of build and release process. Understanding of multiple interpreted and compiled programming languages for large scale analysis and fluency in scripting languages like **ruby**, **python** and **bash**.
* Significant experience in Azure Platform as a Service (PaaS), including Azure Functions, APIM, Application Gateway, Application Insights, Key Vault, and other Azure services.
* Worked on Container management by using **Docker** and by writing **Docker** files and set up the automated build on Docker HUB and installed and configured **Kubernetes.**
* Building **LINUX** servers using **Kick start**, Installed and updated packages using **RPM,YUM** and performed security patching.
* Strong technical background in Windows platforms and Microsoft Azure Cloud administration.
* Used **Kubernetes** to manage containerized applications using its **ConfigMaps**, selector, Services, and deployed application containers as Pods.
* Install, configures and support **Apache** on Linux production servers. Install, manages and upgrade packages via **RPM** and **YUM** package management.
* Installation, configuration and management of Sun Solaris on Sun Servers and Sun Workstations and **Red Hat** Enterprise **Linux.**
* Worked with **AZURE** infrastructure management (**AZURE** web roles, worker roles, **SQL AZURE, AZURE** storage, AZURE AD licenses). Virtual machine backup and recover from a recover services vault using **azure Power Shell** and portal.
* Proficient in secure architectures, penetration testing tools, and adhering to OWASP Top 10 or similar secure coding principles.
* Design an **ELK** system to monitor and search enterprise alerts. Installed, configured and managed the **ELK Stack** for Log management within **EC2 / Elastic Load balancer** for Elastic Search. Monitored performance of the applications and analyzed log information using **ELK** (Elasticsearch, Logstash, Kibana).
* Strong in building Object Oriented applications using C**++** and Java, writing **Shell Scripts** and **Perl Scripts** on **UNIX**.
* Build, manage, and continuously improved the build infrastructure for global software development engineering teams including implementation of build scripts, continuous integration infrastructure and deployment tools.
* Organized a daily stand-up post-deployment meeting to review all issues being tracked. Ensure every issue has an owner and that it is resolved while capturing the specific details about the issue, resolution, and which organizations and individuals provided the resolution.
* Highly desired expertise in Azure App Service, Service Fabric, Azure Service Bus, Application Insights, Azure Functions, Storage, and other Azure services
* Integrated the HAshicorp vault with Jenkins for storing credentials
* Documented all post-deployment issues in a log and assist in resolving these issues where applicable, maintaining timely updates within the log. Manual and **Automation** process of creating branches tags and code merging.
* Ensured all steps are successfully completed and document their completion times and issue logs.

**Environment:** AWS, GCP, Terraform, Chef, Ansible, Docker, Kubernetes, GIT, Maven, Splunk, Ruby, Python, BASH, Shell Scripting, Subversion, Hudson, Jira, GIT, Web services, Web Logic, .Net, Gradle, ANT, Jenkins.

**Client: Citi Group, India Nov 2017 – Aug 2018**

**Role: AWS Devops Engineer**

**Responsibilities:**

* Designed and Deployed a multi-tier application utilizing almost all the main services of the **AWS**stack (like **EC2, S3, RDS, VPC, IAM, ELB, Cloud watch, Route 53, Lambda and Cloud Formation**) focused on high - availability, fault tolerance environment.
* Created **Cloud Formation** Template for main services like **EC2, VPC** and **S3** for reusing the current environment.
* Created network architecture on **AWS VPC**, subnets, Internet Gateway, Route Table and **NAT** Setup.
* Designed high availability environment for **Application servers and database servers** on **EC2** by using **ELB** and **Auto-scaling.**
* Monitored **AWS** cloud resources and the applications that deployed on AWS by creating new alarm, enable notification service using **Cloud Watch.**
* Deployed and monitored scalable infrastructure on **Amazon web services (AWS)**& configuration management using **puppet**.
* Managed Web Applications, Config Files, Data Base, Commands, Users Mount Points, and Packages using **Puppet.**
* Designed the project **workflows/pipelines** using **Jenkins** as **CI** tool and wrote **Python** Scripts to automate the build process.
* Installed **Jenkins/Plugins** for **GIT** Repository, Setup SCM Polling for Immediate Build with **Maven** and Maven Repository (Nexus Artifactory) and Deployed Apps using custom **ruby** modules through **Puppet**.
* Integrated **GIT** into **Jenkins** to automate the code check-out process. Used **Jenkins** for automating Builds and Automating Deployments.
* Integrated plugins such as **Jenkins parameterized trigger** plug-in, **Jenkins pre**-**scm**-**build step**, **Jenkins Sonar Qube** plug-in, **Jenkins Matrix Authorization Strategy** plug-in and **Jenkins Build**-**timeout** plug-in with **Jenkins**.
* Proficiency in configuring and managing monitoring tools such as **Nagios** and **Splunk**.
* Developed **Splunk queries** and **Splunk dashboards** targeted at understanding application performance and capacity analysis.
* Installed and configured **Jenkins** for Automating Deployments and providing a complete automation solution and maintained build related scripts developed in **ANT** and **shell**. Modified build configuration files including **Ant's build.xml**.
* Worked closely with the development and operations organizations to implement the necessary tools and process to support the **automation of builds, deployments**, **testing** and **infrastructure** using **Chef**.
* Deployed the code through **web application** servers like **Web Sphere/Web Logic/Apache Tomcat.**
* Installed and configured of **Solaris** and **Linux**servers using **JUMPSTART** and **KICKSTART** installation and periodic Patch Upgrading using Live upgrade.

**Environment:** AWS, ELB, Cloud Watch, Chef, Puppet, Ansible, Python, Shell, Linux, Splunk, Nagios, My SQL, Jenkins, Apache Tomcat, Git, Solaris, Jumpstart, Kick start, Linux.

**Client:** **Xerox, India** **Aug 2013 Oct 2017**

**Role: Devops engineer**

**Responsibilities:**

* Experience in using Cloud Formation Templates to provision and auto deploy **EC2** Instances and Integrated with Ansible playbooks to deploy the Web applications.
* Setting up **IAM Users/Roles/Groups/Policies** and automated **DB**&**App** backups to **S3** using **AWS CLI**.
* Implemented VPC service for the on premises datacenter with **AWS Cloud using AWSVPC** and **VPN** services.
* Worked on **AWS- EC2, S3, Glacier, Storage Gateway, Elastic Load Balancing**, **VPC, IAM, RDS, Cloud Front (CDN),Cloud formation, Cloud Watch and Auto Scaling Services.**
* Extensively worked on **Jenkins CI/CD pipeline** jobs for end-to-end automation to build, test and deliver artifacts and troubleshoot the build issue during the **Jenkins** build process.
* Automated the cloud deployments using **chef, python (boto& fabric) and AWS** Cloud Formation Templates.
* Installed/Configured/Managed **Jenkins CI** Automation.
* Responsible for the Plug-in Management, User Management, Build/Deploy **Pipeline** Setup and End-End Job Setup of all the projects.
* Automating the systems, configuring the servers and orchestrating the deployments through **Ansible**.
* Worked on the plugins to multiple client nodes. Use **Ansible** commands to fetch information from remote node.
* Experience in writing **Ansible playbooks** and securing a server with **Ansible** and Provisioning, deployment with **Ansible**.
* Wrote playbooks and roles for **Ansible** and deploying applications to **AWS cloud** using **Ansible**.
* **Jenkins** is used as a continuous integration tool for automation of daily process.
* Created the Release process of the artifacts.
* **JIRA** is used as ticket tracking, change management and **Agile/SCRUM** tool.
* Participated in weekly release meetings with Technology stakeholders to identify and mitigate potential risks associated with the releases.

**Environment:** AWS, Ansible, YAML, Jenkins, Jira, Linux, MySQL, Apache, Splunk.