**T SIVA REDDY Phone:9985606326 Email:sivareddy1553@gmail.com**

**Introduction:**

Around 3.1 years of experience as **DevOps Engineer** in architecting/automating and optimizing mission critical deployments over large infrastructure. Proficient with configuration management tools and in developing **CI-CD pipelines.**

**Professional Summary**

* 3.1 years of firsthand experience in software development and **DevOps**, specifically managing **AWS** Infrastructure such as **EC2s**, **RDS**, **Elastic** **cache**, **S3**, **IAM**, **cloud** **trail** and other services provided by **AWS**.
* Experience in Building a multi-region highly available auto-scaling infrastructure that optimizes performance and cost. Plan for future infrastructure as well as Maintain & optimize existing infrastructure.
* Conceptualize, architect and built automated deployment pipelines in a **CI/CD** environment like **Jenkins**.
* Conceptualize, architect and built a secured network utilizing **VPCs** with inputs from the security team.
* Collaborated with developers & QA to institute a policy of Continuous Integration with Automated testing Architect, build and manage dashboards to provide visibility into delivery, production application functional and performance status.
* Interface with developers and triage **SQL** queries that need to be executed in production environments.
* Maintain 24/7 on-call rotation to respond and support troubleshooting of issues in production.
* Assist the developers and on calls for other teams with post, follow up and review of issues affecting production availability.
* 3 years’ experience in **Ansible**.
* Written **playbook** to automate provisioning of **AWS** infrastructure as well as automation of routine maintenance tasks.
* Experience in automating deployments to production and lower environments.
* Contributed to hosting platform on **AWS**, comprising of **web applications**, **webservices**, **RDS**, **Redis** and **Elastic Search** **clusters** and several other AWS resources like **EC2, S3, Cloud front, Route53 and SNS.**
* 2 years scripting experience in **Python** and **Shell Web Application Deployment Systems Continuous Integration tools (Ansible)Establishing and enforcing Network Security Policy (AWS VPC, Security Group) & ACLs.**
* Establishing and enforcing systems monitoring tools and standards.
* Platform setup using **Terraform**, baseline design, apply the baseline using CI/CD pipeline.
* Reusable **Terraform** modules for various AWS services
* Strong **Linux** administration skills
* Got opportunity to gain experience and to support new technologies
* Good troubleshooting skills on **Linux** (**Ubuntu**, **Red hat**)
* **Shell** scripting experience
* Actively interacted with Application teams, network engineers, systems, storage, project management and database administrators on projects and provided on call support. Was able to Identify root cause, troubleshoot and resolve issues quickly and effectively.

**IT SKILLS:**

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| **Operating Systems** | IBM AIX 4.3/5.x, Linux (Red Hat 6.x/7.x/8.0), Ubuntu, Win NT/2000, |
| **Languages** | Java |
| **Tools** | JIRA, VM, Jenkins, Docker, Ansible, GIT, GIT-Hub, Maven, Gradle, ANT, Terraform, Kubernetes |
| **Webservers** | Apache 2.2.23/2.2.23-worker, |
| **Networking** | HTTP, TCP/IP, SNA, DNS, LAN, WAN, SSH, DHCP, SMTP, POP3/IMAP, LDAP, VPN, MS Proxy Server 2.0 |
| **Scripting Languages** | Shell Scripting, |
| **AWS Cloud** | EC2, EBS, EFS, Route 53, VPC, Cloud Formation Templates, Cloud Watch, S3, RDS, DynamoDB, Auto Scaling, Elastic Bean Stalk, EMR, Lambda |
| **Monitoring Tools** | Nagios |
| **Documentation** | Media Wiki, Share point, Jira |

**EDUCATION:**

BTech in **Electronics And Communication Engineering (ECE)** from Jawaharlal Nehru Technological University (Anantpur) in 2018

**Professional experience:**

* Working as a Devops engineer in **Cognizant Pvt.Ltd, Hyderabad** from March 2019 to Till date.

**PROJECTS**

**Project Title:** E-Purchasing Network

**Role:** Build & Release Engineer

**Team size:** 4

**Environment:** Docker, Jenkins, Git, Git Hub, Apache Tomcat, python, AWS, Ansible, chef, Kubernetes

**Description:**

Epurchasing Network gives a rich, immersive eCommerce platform that useful for buyers and suppliers of different products and their accessories.

**Roles & Responsibilities:**

* Implementing **DevOps CI and CD** process using open source tools.
* Working on **AWS** services.
* Provisioning, managing and Administration of Cloud based resources.
* Working on **Jenkins, Ansible, Chef, Docker, Kubernetes, Git, GitHub, Nagios**.
* Delivery of services such as Technical Guidance, presentations, skills transfer, code samples, architecture planning/guidance, code reviews, DevOps and ALM aspects to partners and customers using **AWS** cloud technology.
* Used **Jenkins** as a primary tool for implementing the continuous integration and continuous delivery of their code releases
* **Docker** container creation and management, **Dockerfile** management, deploying micro services to **Docker** container.
* Managing and monitoring container using **Docker** **Swarm** and **Kubernetes**.
* Server configuration management via **Ansible** and Maintained environments deployed.
* Created **Ansible** playbooks for the Deployment and Infrastructure automation purpose
* Configured Auto scaling policies and configuration for the Production Environment
* **AWS** instance creation to support the testing environments like IT, UAT and MNT
* Controlled the user access to multiple s3 buckets using bucket polices
* Implemented a Sonar software quality testing metrics server. Sonar testing metrics executed as a built-in **Jenkins** plug-in to assist in quality build testing metrics. Developed Sonar blocker violation profiles to report build failures expeditiously to the build and development team.
* Working with development team on enforcing source control strategies, building, packaging and deployment of products.
* Create **GitHub** projects for developers to store the code and managed the user access
* Have worked on **Nagios** tool to fix **AWS** **VM** related issues.
* Built AWS infrastructures using **Terraform** modules and deployed onto client side
* Responsible in Installing and maintaining the **GIT** repositories of all sources and documents (Repository Maintenance)
* Created **CI** jobs with **Maven** as a build tool.
* As most of the infrastructure is hosted in **AWS** cloud and responsible for creating and Managing **EC2** instances.
* Writing playbooks for installing and configuring the **EC2** instances and automate deployments.
* Converting **ansible** playbooks into roles for scalability and reusability.
* Maintaining **AMI's** for backup of configured EC2 instances
* Deploying the artifacts in environments like DEV, QA, UAT with ansible and Jenkins.
* Creating backup of **EBS** volumes and restoring them.
* Ensuring the servers to sustain the load by configuring **Elastic load balancer and auto scaling**.
* Enabling highly available and robust virtual private cloud to ensure the network isolation from public cloud and secure them with security groups.
* Automate the deployments on **Tomcat** application server.
* Responsible for deployments into QA, UAT, staging environments.
* Deliver appropriate build, operations and support documentation (Release Notes) for the build and test environments.
* Ability to effectively priorities work with fast changing requirements.
* Troubleshoot and debug infrastructure, Network and operating system issues.
* Resolve complex issues in scenarios like resource consumptions, server performance, backup strategy, Scaling.
* Investigate and perform Root Cause Analysis on users reported issues and provide workaround before implementing final fix.
* Monitor servers and applications to ensure smooth running of IT Architecture (Applications, Services, Schedulers, Server Performance etc.)
* Infrastructure setup using **Terraform, CloudFormation**.
* Jenkins jobs troubleshooting for multiple server deployments.
* Nginx configuration
* **Tomcat** installation and website hosting.
* AWS Billing and Management. Minimized the **AWS EC2** usage charges with the spot instances setup.
* **Hbase** installation and setup.
* Multiple environment setups for **DEV,QA** and **UAT.**
* Troubleshooting **Dockerfiles** and **Docker-compose** files.