**Bhargavi Reddy Pandilla**

Email: Flora@alphasoftwaretech.com

**CAREER OVERVIEW:**

Accomplished IT professional with 9+ years of industry experience in varied roles from application maintenance and support, developer, to DevOps Engineer.

**Professional Summary:**

* Expertise in implementing **DevOps** culture through **CI/CD** tools and configuration management tools like **Chef, Puppet & Ansible**.
* Designed and implemented solutions with **AWS IAM, VPC, EC2, ECS, EBS, RDS, S3, Lambda, ELB, Auto Scaling, Route 53, CloudFront, CloudWatch, CloudTrail, SQS,** and **SNS** etc.
* Extensively managed **Network ACL's**, **EC2** and **Security Groups** in migrating physical servers to Cloud (**AWS**).
* Proficient with **Shell, Python, Ruby, Perl, Power Shell, JSON, YAML, Groovy** scripting languages.
* Experience in building sophisticated and highly automated infrastructure using automation frameworks such as **CloudFormation, Terraform**, and **OpsWorks**.
* Experienced using **Terraform** for managing **AWS** Infrastructure as a code and collaborated in the automation of **AWS** infrastructure via **Terraform** and **Jenkins**.
* Experience in automating infrastructure with **Terraform** by using **Packer** machine image artifacts to avoid vendor lock-in and to provide quick and accurate architecture.
* Automated **AMI's** creation through pre-boot and bootstrapping instances using **Shell** and **Python** scripts.
* Ability to deploy on **AWS** using build scripts (**Boto3** & **AWS CLI**) and automated solutions using **Shell** and **Python**.
* Experience in configuring**AWS Identity & Access Management (IAM)** by managing the user's new accounts, roles and groups.
* Configured Inbound/Outbound in **AWS Security Groups** according to the requirements.
* Set up **Auto Scale** of the instance group using **AWS** command line tools and **AWS** cloud environment for Dev/QA environments.
* Experience in **Blue/Green** deployment strategy by creating new applications which are identical to the existing production environment using automation frameworks such as **CloudFormation** and **Terraform** templates.
* Well versed with deployment tools like **XL Deploy, CodeDeploy**, **Octopus Deploy** and **Urban Code Deploy**.
* Good hands-on experience with **Packer** for creating updated **AMI’s** and managing **AMI’s** in the cloud.
* Implementation of **Octopus** to facilitate automated deployments to the **QA**, **UAT** and **Prod** environments to ensure software integrity.
* Deployed applications on multiple web servers, maintained Load balancing, high availability by using **AWS** platform. Build & automate infrastructure deployments in **AWS** cloud using **PowerShell**.
* Have experience on version controls tools and repositories like **GIT, SVN, Bitbucket,** and **CodeCommit**.
* Expertise in using build tools like **ANT**, **Maven, Gradle** for the building of deployable artifacts such as war & ear from source code.
* Experience maintaining **CI** environments with build automation tools like **Jenkins, Bamboo** and **TFS**.
* Extensively used **Jenkins** to streamline **CI/CD** process, automated several Master-Slave configurations using temporary slaves.
* Last few years have focused on containerization and immutable infrastructure. **Docker** has been core to this experience, along with **Mesos, Marathon** and **Kubernetes**.
* Utilized **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to build, test, and deploy.
* Good experience with **OpenShift** platform in managing **Docker** containers and **Kubernetes** Clusters. Streamlined installation of **OpenShift** on partner cloud infrastructure such as **AWS**.
* Good experience in using **Vagrant** for built and maintenance of Virtual Environment.
* Experience in developing and implementing infrastructure as code, automated provisioning and configuring using **Chef, Puppet** and **Ansible**.
* Expertise in writing **Chef/Puppet** cookbooks/recipes to automate Infrastructure as a code (**IAC**).
* Having good experience with **Ansible** to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points, and Packages. **Ansible** to assist in building automation policies.
* Efficient experience in using **Nexus** and **Artifactory** Repository managers for **Maven** builds.
* Tracked servers and resource performance using monitoring tools **CloudWatch, Nagios, New Relic,** and **Splunk**.
* Experience with web and application servers such as **Apache, Tomcat, Nginx, WebLogic, WebSphere** and **JBoss**.
* Extensively worked with automation tools like **Jenkins, Hudson and Build Forge** to implement the End to End Automation.
* Worked with different Bug tracking tools like **JIRA, Remedy, HP quality center** and **IBM clear quest**.
* Configured services like **DNS, NIS, NFS, LDAP, SAMBA, Send Mail, FTP, Remote access** on Linux.
* Having good hands-on experience with **Apache Kafka**.
* Install databases like **Oracle 10g, 11g, MYSQL** on Linux.
* Have good knowledge of utilizing cloud technology and **NoSQL** database like **Cassandra, Mongo DB** database.
* Experience in developing and implementing web applications using **Java/J2EE** Technologies.
* Have experience in Design, Development and Deployment of **Java** web components on servers like **Apache**, **WebSphere** and **WebLogic**.
* Have good knowledge with **MongoDB** clusters, **Java scripting** to load unstructured data into shading environment.
* Familiar with installation & Management of packages, patches, maintenance of **RPM** updates on Linux.
* Knowledge of Routers and **Switches, Subnet,** **VLAN, TCP/IP, VPN, OSI** model and **Firewall** (checkpoint).
* Strong and progressive experience in the server installation and administration of **RedHat Linux, Centos, Oracle Enterprise** **Linux, VMware ESX&ESXI** environment.
* Strong ability to troubleshoot any issues generated while building, deploying and in production support.
* Ability to work closely with teams, in order to ensure high quality, timely delivery of builds &releases.
* Expert in developing cloud strategies, roadmaps, architecting new cloud solutions or migrating enterprise applications to the cloud.
* Good understanding of the principles and best practices of Software Configuration Management (**SCM**) in **Agile**, S**crum**, and **Waterfall** methodologies.
* Excellent written and verbal communication skills, strong organizational skills, and a hard-working team player.

**Skills:**

|  |  |
| --- | --- |
| **Operating System** | Linux: RHEL, Centos, Ubuntu. Windows 2000/2003/2008/2012, VMware ESX/ESXi 3.5/4.1/5. |
| **Web/Application Servers** | Apache, Tomcat, Ngnix, WebLogic, WebSphere, JBOSS |
| **Build Tool** | ANT, Maven and Gradle. |
| **Version Control** | GIT, SVN and CVS. |
| **Configuration Management** | Chef, Puppet, Ansible. |
| **Databases** | Oracle, SQL Server, My SQL and NoSQL (Cassandra, Mongo DB). |
| **Virtualization Tools** | Docker, Kubernetes, VM Virtual Box, VMware. |
| **Cloud Platform** | AWS and OpenStack. |
| **Monitoring Tool** | Nagios, Splunk, New Relic, AppDynamics and Sumo Logic. |
| **Networking/Protocol** | TCP/IP, HTTP/HTTPS, NDS, DHCP, NFS, Cisco Routers, LAN. |
| **Virtual Servers** | VMware ESX Servers, vSphere 5.x, Solaris Zones. |
| **Language/Scripting** | Java, Shell, PowerShell, Ruby, Go, Python and Perl. |
| **Bug Tracking Tools** | Jira, Remedy, HP quality center and IBM clear quest. |

**PROFESSIONAL EXPERIENCE:**

**Client: T-Mobile Frisco, Texas**

**Role: DevOps Engineer Nov 2022 – Present**

* Improved entire release process by automating all manual/time consuming steps with DevOps tools like**, Python, Docker, Git, CodeBuild, CodePipeline,** and **AWS**.
* Worked with build Servers using **AWS**: Importing volumes, Launching EC2 instances, creating security groups, load balancers.
* Building the **AWS Infrastructure** using **VPC, EC2, S3, Route 53, EBS, Security Group, Auto Scaling and Lambda** in Cloud Formation.
* Extensively involved in infrastructure as code, execution plans, resource graph and change automation using **Terraform**. Managed **AWS** infrastructure as code using **Terraform**.
* Expertise in writing new plug-ins to support new functionality in **Terraform**.
* Designed roles and groups for users and resources using cloud permission systems AWS Identify Access Management **(IAM).**
* Developing scripts for deployment of customer environments into **AWS**, using Bash and Python.
* Deployed AWS **Lambda function** with help of **BOTO3 Python** libraries to start and stop EC2 instances, applying permission policies and life cycles to S3 buckets.
* Created automated pipelines in AWS **CodePipeline** to deploy Docker containers in AWS **ECS** using services like **CloudFormation, Code Build, CodeDeploy and S3**.
* Experience using **Terraform** for Infra Provisioning against **AWS**.
* Configured and maintained **Jenkins** to implement the **CI** process.
* Configured **GIT**, build scripts using **ANT** and **MAVEN** build tools with **Jenkins** and schedule jobs using POLL SCM option and integrated to automate the code checkout process.
* Built **Jenkins** jobs to create **AWS** infrastructure from **SCM** repos containing **Terraform** code.
* Used **Jenkins** 2.0 and pipelines, which helped us, drive all **Micro services** builds out to the **Docker** registry and then deployed to **Kubernetes**.
* Built additional **Docker** Slave nodes for **Jenkins** using custom built **Docker** images and instances.
* Written Templates for **AWS** infrastructure as a code using **Terraform** to build **lower environments** as well as **production environments**.
* Initiating alarms in **CloudWatch** service for monitoring the server’s performance, CPU utilization, disk usage, etc.to take recommended actions for better performance. Managed different infrastructure resources, like physical machines, **VMs** and even **Docker** containers using **Terraform**.
* Implemented **Terraform** modules for deployment of various applications across multiple cloud providers and managing infrastructure.
* Used **Terraform** for automating **ELBs**, **Security Groups**, **SQS** Queues, **S3** Buckets, and continuing to replace the rest of our infrastructure.
* Setting up Continuous Integration and Continuous Delivery (CI/CD) for the Microservices using **CodeBuild** and **CodePipeline** and containerized these services with **Docker** and **AWS** **ECR**.
* Worked on **Docker** container snapshots, attaching to a running container, removing images, managing Directory structures, and managing containers.
* Setting up **Kubernetes** platform with four clusters and providing assistance to various app teams
* Coordinate developers with establishing and applying appropriate branching, labeling/naming conventions using **GIT** source control.
* Working on **GitHub** related operations like creating repositories, cloning, merging, commit, pull, push. Resolving the issues like merge conflicts.
* Worked with **Splunk** as a user to monitor the application server’s health and performance.
* Used **Jira** as ticket tracking, bug tracking, and work flow tool.

**Client:** **Southwest Airlines Dallas TX**

**Role: Devops Engineer Dec 2021 – Oct 2022**

* Worked on Amazon **AWS EC2** cloud services for installing, configuring, and troubleshooting on various Amazon images.
* Managing Amazon instances by taking **AMIs** and performing administration and monitoring of Amazon instances like EC2 using Amazon Cloud Watch.
* Involved in Setting up a Continuous Integration Environment using **Jenkins** and responsible for design and maintenance of the **GIT** Repositories, views, and the access control strategies.
* Implemented **SonarQube** for code quality check and **Nexus** repository and integrated them into **Jenkins** to achieve Continuous Integration.
* Set-up and maintain fully automated **CI/CD** pipeline for multiple **Java / .NET** environments using **GIT, Jenkins, Puppet / Chef**.
* Extensively used **Jenkins** to streamline **CI/CD** process, automated several Master-Slave configurations using temporary slaves.
* Configured Elastic Load Balancers with EC2 Auto scaling groups.
* Automated **AWS** (**VPC, EC2, S3, ELB, IAM**) deployments using **Ansible.**
* Worked on **Auto scaling**, **Cloud watch** (monitoring), **SNS**, AWS **Elastic Beanstalk** (app deployments), Amazon **S3** (storage), and Amazon **EBS** (persistent disk storage).
* Experience in **AWS** **Ansible** Python Script to generate inventory and push the deployment to Managed configurations of multiple servers using **Ansible.**
* Used **Ansible** playbooks to manage Web applications, Environments configuration Files, Users and Packages.
* Experience with **AWS S3** services creating buckets, configuring buckets with permissions, logging, versioning, and tagging.
* Used **Terraform** for automating **ELBs**, **Security Groups**, **SQS** Queues, **S3** Buckets, and continuing to replace the rest of our infrastructure.
* Performed **SVN to GIT** migration and managed branching strategies using **GIT** flow workflow.
* Used **CloudFront** to deliver content from AWS edge locations to users, allowing for further reduction of load on front-end servers.
* Automated **AWS** infrastructure via **Ansible** and **Jenkins** - software and services configuration using **Ansible** **Playbooks**.
* Utilized **Kubernetes** and **Docker** for the runtime environment for the **CI/CD** system to build, test, and deploy.
* Involved in implementing deployments into AWS **EC2** with the help of **Terraform**.
* Creating Docker images, Compose, **Docker Registry** and handling multiple images primarily for middleware installations and domain configurations.
* Used **KUBERNETES** to deploy, load balance and manage docker containers in multiple clusters and namespaces.

**Client: IBM, India**

**Role: DevOps Engineer April 2018 – Jan2021**

* Worked on and coordinated with developers to create and setup a common **GIT** repository.
* Imported and managed multiple cooperate applications into **GIT**.
* Utilized **Maven** to successfully build and manage project according to requirements and finally generating artifact.
* Worked on running unit tests and integration tests efficiently in environment in **Maven**.
* Configured and worked on build to publish artifacts to **nexus** repository.
* Worked on **Linux** administration Support, Performance tuning & monitoring, problem analysis & resolution.
* Automated build and release process including monitoring changes between releases.
* Developed **Jenkins** scripts to have Infrastructure as a service.
* Configure new applications and software updates as required including upgrades, installations, validations, and setting up new servers.
* Supported and developed tools for integration, automated testing, and release management.
* Releasing code to testing regions or staging areas as per the schedule published.
* Developed basic **Shell** Scripts for automation purposes.
* Worked closely with software developers and DevOps to debug software and system problems.
* Able to create scripts for system administration and **AWS** using languages such as Bash and Python.
* Maintained and coordinated environment configuration, controls, code integrity, and code conflict resolution.
* Implemented **Maven** builds to automate **JAR and WAR**.
* Involved in taking the weekly backups of the repositories and managing the repositories.
* Troubleshoot various systems problems such as application-related issues, network-related issues, hardware-related issues.
* Supported development team to migrate **ASP.NET** application hosted on Windows server 2012 to AWS environment.
* Worked with **JIRA**, a tool that handles DCR (Defect Change Request) & MR (Maintenance Request).

**Client: Infosys, India**

**Role: Developer Jan 2017 – Feb 2018**

* Management of customer requirements and documentation of the Project Plan as per the requirements
* Create cost estimation plan, develop and deliver projects to QA, UAT and Production/DR environments.
* Developed reports following the country-specific compliance rules using **Crystal reports and SQL server.**
* Created compliance and settlement reports for customers for their settlements activities.
* Created / modified the reports to include new fields and compliance rules.
* Create customized reports and **SQL** queries based on the customer requirement.
* Deliver reports in the form of .exe files using the NSIS script along with Installation guides to customers.
* Monitor the project deliveries during the warranty period and fix the bugs/issues in client servers.
* Add new features to the application and create exe files to deliver to customers in **VB.NET**.
* Upgrade application database servers from SQL Server 2005 to 2008/2012/2014.
* Written complex SQL queries to retrieve data and display on the reports.
* Perform maintenance activities like backup/restore the database.
* Utilize Joins and sub-Queries to simplify complex queries involving multiple tables.
* Create **SQL** queries and perform **DDL/DML/DCL** commands using SQL Server Management Studio.
* Conducted **Database Backup and Restore**, **Attach and Detach**, **Recover and Disaster Recovery** procedures.
* Track projects and issues following **Agile** practices in **JIRA**.
* Develop a framework for development team using **C#** to reduce development effort.
* Provide cost-effective solutions to the client to improve business and reduce maintenance costs.
* Commit the code to **Git** repositories and manage branching, merging and tagging.
* Generate bugs/defects report from **JIRA** and provide root cause analysis.
* Train new team members with customer processes and Agile Practices.
* Worked in **Agile** and **Waterfall** environments with participation in daily stand-ups with iterative development.

**Client: BP, India**

**Role: Application Support Analyst** **May 2014 – Dec 2016**

* Provided 24\*7 support to multi-platform applications including windows and web applications.
* Supported and performed application migrations from Windows server 2003/ 2003 R2 on to Windows server 2008/2008 R2/2012.
* Provided level me /II support to upgrade application versions and install updates on user’s machines.
* Created batch scripts to push application updates on windows servers.
* Troubleshoot software and applications for all customers to better understand how to help them use the programs efficiently.
* Supported Application Test, Production and DR environments.
* Worked independently to resolve complex issues.
* Implement improvements to reduce bugs and common problems encountered by users.
* Collaborated with vendors to resolve complex issues faced by customers due to security patches.
* Used Remedy tool for logging bugs and to create CR’s for the application and server migrations.
* Migrated test environment applications hosted on Windows servers onto AWS environment.

**Education:**

Bachelor of Arts ,Osmania University(2013)