**Vali P   **

**Sr. Devops/Cloud Engineer**

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**PROFESSIONAL SUMMARY:**

* A Cloud enthusiastic team player having around **8** years of Experience in IT industry as a **DevOps** Engineer with proven expertise in **Automation**, **Build/Release** Engineering and Software development involving cloud computing platforms like Amazon Web Services (**AWS**) and Google Cloud (**GCP**).
* Extensively worked on AWS Cloud services like **EKS, ECS,** **EC2**, **VPC**, **IAM**, **RDS**, ELB, EMR, ECS, Auto - Scaling, **S3**, CloudFront, Glacier, Elastic Beanstalk, Lambda, Elastic Cache, Route53, **Cloud Watch**, **Cloud Formation**, SNS, SQS, SES, **Lambda**.
* Experience in designing a **Terraform** and deploying it in cloud deployment manager to spin up resources like cloud virtual networks, Compute Engines in public and private subnets along with AutoScaler in Google Cloud Platform.
* Set up GCP **Firewall** rules to allow or deny traffic to and from the VM's instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Experience in **Blue/green** deployment strategy by creating new applications which are identical to the existing production environment using CloudFormation templates & Route53 weighted record sets to redirect traffic from the old environment to the pristine environment via **DNS**.
* Expertise in creating **Kubernetes** clusters with cloud formation templates and deploy them in AWS environments and **monitoring** the health of pods using **Helm Charts**.
* Expertise in setting up Kubernetes (k8s) clusters for running **microservices** and pushed microservices into production with Kubernetes backed Infrastructure.
* Expertise in writing **Ansible** Playbooks from scratch using YAML functions and utilizing setup and automate the **CI/CD pipeline** and deploy microservices. Provisioned load balancer, auto-scaling group and launch configuration for microservices using Ansible.
* Expertise in deploying **Ansible** playbooks in AWS environments using **Terraform** as well as creating Ansible roles using **YAML**. Used Ansible to configure **Tomcat** servers and maintenance.
* Experience in Deploying and configuring **Chef** server including bootstrapping of **Chef-Client** nodes for provisioning and created roles, **recipes**, **cookbooks** and uploaded them to Chef-server , Managed On-site OS, Applications, Services, Packages using Chef as well as AWS for EC2 , S3 , Route53 and ELB with Chef Cookbooks.
* Tested Chef Cookbook modifications on cloud instances in AWS, using test **Kitchen**, ChefSpec and utilized Ohai to collect attributes on the node.
* Strong experience in using build management tools like **Maven**, Ant, and **Gradle** for the building of deployable artifacts (jar, war, and ear) from source code and used artifacts repository managers like **Nexus**, **JFrog** for Maven builds.
* Experience in keeping up and looking at log archives using **monitoring** tools like **Splunk**, **CloudWatch**, **Dynatrace**, **New Relic**, **Prometheus**, and **Grafana**.
* Expertise in working with different Bug Tracking Tools like **JIRA**, **ServiceNow**.

**TECHNICAL SKILLS:**

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| **Operating Systems** | Linux, UNIX, Windows, CentOS, RHEL, Ubuntu |
| **Versioning Tools** | Subversion(SVN) , **GIT**, Accurev, TFS |
| **CI Tools** | Hudson/**Jenkins**, Chef |
| **Config Management Tools** | **Chef**, **Ansible**, **Puppet**, **Salt** |
| **Orchestration Tools** | **Terraform, Stackstorm,** Cloud Formation. |
| **Repositories** | **Nexus**, **Jfrog** Artifactory |
| **Scripting** | **Shell** Scripting, **Python**, **Groovy**, **ruby**, go |
| **Web Technologies** | HTML,CSS |
| **Programming Language** | Unix Shells(**Bash**) , **Java**, Ruby |
| **Web/App Servers** | **Apache**, **Jboss** |
| **Build Tools** | Ant, **Maven**, **Gradle** |
| **Bug Tracking Tools** | **JIRA**, **Rally** |
| **Database** | Oracle 9i/10g, SQL Server, MySQL, Redis, Mongodb, PostgreSQL |
| **Monitoring Tools** | **Splunk**, **Dynatrace, Prometheus, Grafana** |
| **Code Quality Tool** | **Sonarqube, Jacoco** |
| **Virtualization technologies** | **Docker**, VMWare, **Kubernetes** |
| **Cloud Technologies** | **AWS, GCP** **, Pivotal Cloud Foundry (PCF)** |

**PROFESSIONAL EXPERIENCE:**

**BCBS, Jacksonville, FL May 2019 - Present**

**DevOps/Cloud Engineer GCP/AWS**

**Responsibilities**:

* Worked on google cloud platform (**GCP)** services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.
* Involved in **migrating data from S3 to GCS** bucket using proper encryption. And moved from **EC2 to Compute Engine.**
* Setup GCP **Firewall** rules to allow or deny traffic to and from the **VM's** instances based on specified configuration and used GCP cloud CDN (content delivery network) to deliver content from GCP cache locations drastically improving user experience and latency.
* Created projects, **VPC's,** Subnetwork's, **GKE** Clusters for environments **QA3, QA9** and prod using Terraform Created projects, VPC's, Subnetwork's, GKE Clusters for environments.
* Worked on **Jenkins** file with multiple stages like checkout a branch, building the application, testing, pushing the image into **GCR**, Deploying to QA3, Deploying to QA9, Acceptance testing and finally Deploying to Prod
* Deploy and monitor scalable infrastructure on Amazon web services (**AWS)** and configuration management instances and Managed servers on the Amazon Web Services (AWS) platform using **Chef** configuration management tools and Created instances in AWS as well as **migrated** data to AWS from data Center.
* Developed strategy for cloud migration and implementation of best practices using AWS services like database migration service, AWS server migration service from On-Premises to cloud.
* Provisioned the highly available **EC2** Instances using Terraform and cloud formation and wrote new python scripts to support new functionality in Terraform.
* Managed AWS infrastructure as code (IaaS) using **Terraform**. Expertise in writing new python scripts to support new functionality in Terraform. Provisioned the highly available **EC2** Instances using Terraform and cloud formation and Setting up the build and deployment automation for Terraform scripts using Jenkins
* Designed AWS Cloud Formation templates to create custom sized VPC, to set up **IAM** policies for users, subnets, **NAT** to ensure successful deployment of Web applications, database templates and Security groups
* Created and deployed **Kubernetes** pod definitions, tags, labels, multi-pod container replication. Managed multiple Kubernetes pod containers scaling, and auto-scaling.
* Implementation of new tools such as Kubernetes with **Docker** to assist with auto-scaling and continuous integration (**CI)** and Upload a Docker image to the registry so the service is deployable through Kubernetes. Use the Kubernetes dashboard to monitor and manage the services.
* Worked on installing, configuring, and managing Docker Containers, **Docker Images** for Web Servers and Applications and Implemented Docker -**maven-plugin** in and maven pom to build Docker images for all microservices and later used Docker file to build the Docker images from the java **jar files**
* Created Docker images using a docker file, worked on Docker **container** snapshots, removing images and managing Docker volumes and also **virtualized** servers in Docker as per QA and Dev-environment requirements and configured automation using Docker containers
* Configuring with different **artifacts** to make an image and deploy Docker image to install the application on an instance, maintain and troubleshoot for any user issues or network problems
* Worked on **Docker-Compose,** Docker-Machine to create Docker containers for testing applications in the QA environment and automated the deployments, scaling and management of containerized applications
* Installed and Implemented Ansible configuration management system. Used **Ansible** to manage Web applications, Environments configuration Files, Users, Mount points, and Packages also Worked with automation/configuration management using Ansible and created playbooks in **YAML** to automate the development processes.
* Implemented Infrastructure automation through **Ansible** for auto-provisioning, code deployments, software installation and configuration updates.
* Worked with the development team to generate deployment profiles **(jar, war, rar)** using **ANT Scripts** and **Jenkins**
* Worked on writing Jenkins, built a pipeline with Gradle script and **Groovy DSL** (Domain Specific Language) and integrating **ANT/MAVEN** build scripts with Gradle for the sole purpose of continuous build.
* Built and maintained ELK stack to centrally collect logs that are used to monitor applications also Installed, monitored, and configured Applications in **Nginx** and Apache **Tomcat** Server and establish connectivity to databases and **troubleshoot** issues on the fly.
* Created Pre-commit hooks in **Perl/shell/bash** for authentication with JIRA-Pattern Id while committing codes in SVN, limiting file size code and file type and restricting development team to check-in while code commit
* Working Knowledge of databases like **MySQL, RDS, DynamoDB**, and **MongoDB**
* Good understanding of the principles and best practices of software configuration management (SCM) in **agile**, scrum and **waterfall** methodologies.
* Worked on writing multiple **Python, Ruby,** and **Shell** scripts for various company wide tasks
* Well versed with Software development **(SDLC)**, Test life cycle **(STLC),** and Bug life cycle and worked with testing methodologies like a waterfall and the agile methodology (**SCRUM**) with an in-depth understanding of the principles and best practices of Software Configuration Management (SCM).

**Environment**: AWS, EC2, RDS, ELB (Elastic Load Balancing), S3, Cloud watch, Cloud Formation, Route53, Lambda, MAVEN, Nexus, Chef, Terraform, Jenkins CI/CD, Nagios, Jira, SHELL, Python, VPC, Autoscaling, Apache, JBoss, Nginx, Tomcat, GIT, Docker, Kubernetes, GCP, Service now, Cassandra, Kafka, Blue/green deployment.

**Square, San Francisco, CA July 2018 - Apr 2019**

**DevOps/Cloud Engineer**

**Responsibilities:**

* Worked with **AWS** services using **EKS (Kubernetes), ECS,**  **S3, RDS, EBS**, Elastic Load Balancer, and Auto-scaling groups, **EC2 instances** with optimized volumes and achieved cloud automation and deployments using **Chef, python,** and AWS Cloud Formation Templates.
* Worked with AWS CLI and AWS API to manage resources on AWS for many services such as **EC2, S3, VPC,** Cloud Watch, **ELB,** Auto-scaling, created python script using AWS API Calls to manage all resources deployed on AWS.
* Configured AWS IAM and Security Groups in Public and Private Subnets in VPC Managed **IAM** accounts **(with MFA)** and IAM policies to meet security audit & compliance requirements.
* Provided high durability of the available data using data storage in the AWS S3 bucket, versioning S3, lifecycle policies. Also, web hosting the data from the S3 bucket by creating URLs.
* **Terraform** as infrastructure as code, execution plans, resource graph and change automation. Managed AWS infrastructure as code using Terraform.
* Configuring the **Docker** containers and creating Docker files for different **environments**.
* Implemented a production ready, l**oad balanced,** highly available, fault tolerant, auto scaling Kubernetes AWS infrastructure and microservice container orchestration.
* Used Jenkins and **pipelines** to drive all microservices builds out to the Docker-registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes.
* Written Terraform templates, **Chef** **cookbooks** pushed them onto Chef for configuring EC2 Instances and Solved Gateway time issues on ELB and moved all the logs to S3 Bucket by using Terraform.
* Automated the cloud deployment using Chef, Python, and AWS Cloud Formation Templates. Used Chef for unattended bootstrapping in AWS.
* Created Chef Cookbooks and wrote **recipes** in Ruby Script to install and configured Infrastructure across environments and automated the process using Python Script.
* Configured automation and maintained build and deployment **CI/CD** tools Git, Jenkins, ANT, Maven, Docker-registry/daemon, Nexus and **JIRA** for Multi-Environment (Local/POC/NON-PROD/PROD) with high degrees of standardization for both infrastructure and application stack automation in AWS cloud platform.

**Environment**: AWS, Chef, Docker, Ansible, Jenkins, Terraform, Kubernetes, ANT, Maven, Ruby, Shell, Python, WebLogic Server 11g, Load Balancers, WLST, Apache Tomcat 7.x, Virtualization, Configured plug-ins for Apache HTTP server 2.4, Nginx, LDAP, JDK1.7, XML, GitHub, Nagios, Splunk.

**UnitedHealth Group (Off shore), India Oct 2015 - Feb 2018**

**Build/Release Engineer**

**Responsibilities:**

* Release Engineer for a team that involved different development teams and multiple simultaneous software releases.
* Developed and implemented Software Release Management strategies for various applications according to the **agile** process.
* Responsible for designing and deploying best **SCM** processes and procedures.
* Supported and developed tools for Integration, Automated Testing, and Release Management.
* Used Subversion as Source Code Repositories.
* Managed SVN repositories for **branching, merging and tagging.**
* Coordinate/assist developers with establishing and applying appropriate Branching, Labeling/Naming Conventions using **GIT s**ource control.
* Analyze and resolve conflicts related to merging of source code for Subversion.
* Installing, configuring and administering **Jenkins** CI tool on Linux Machines.
* Used Jenkins for Continuous Integration and deployment into Tomcat Application Server.
* Developed **Shell/Perl** Scripts for Automation purpose.
* Installed and configured Infrastructure Automation tool CHEF. Maintained High Availability clusters and Standalone Server environments and refined Automation components with Scripting and configuration management (CHEF).
* Used **Maven**, Chef **Cookbooks** to build the application and deploy.
* Deployed and monitored scalable infrastructure on Amazon Web Services **(AWS)** & configuration management using Chef.
* Configure, monitor and automate Amazon Web Services and involved in deploying the content cloud platform on Amazon Web Services using **EC2.**

**Environment**: Chef, Maven, Nagios, Subversion, AWS, Shell/Perl, SCM, SVN, Jenkins, Tomcat.

**Essar Solutions Ltd, Hyderabad, India Feb 2013 - Sep 2015**

**JAVA/J2EE Developer**

**Responsibilities:**

* Set up **Jenkins** server and build jobs to provide continuous automated builds based on polling the **Git** source control system during the day and periodic **scheduled** builds overnight to support development needs using **Jenkins, Git, J-unit, Selenium, and Maven.**
* Created conditional logic in pages using **JSF** tags and JSTL.
* Developed the application web pages using **HTML, CSS, JSP, Javascript and jQuery.**
* Worked as a full stack developer responsible for Web, Middle Tier and Databases in the development of the application.
* Developed use case diagrams, Object diagrams, Class diagrams, and Sequence diagrams using **UML.**
* Extremely used plain JavaScript library to do the client-side validations.
* Developed data access components using **JDBC, DAOs**, and Beans for data manipulation.
* Implemented the functionalities using Java, JSP, Servlets and **J2EE framework.**
* Developed front-end screens with HTML, CSS, JavaScript and JSP.
* Extensively did client-side validations using JavaScript and developed the required Servlets.
* Worked with **JDBC** programs using **MySQL** databases and developed SQL and PL/SQL for Oracle to process the data.
* Used **GIT** as a version control system to store current and previous versions of source code.
* Providing technical assistance in creating High Level and Low-Level design using Spring framework, Web Logic, SOAP Web Services, JDK1.6.

**Environment**: Java, J2EE, JavaScript, HTML, CSS, JSF, QA, DEV, MySQL, DAO, JDBC, JQuery, SQL, PL/SQL Eclipse, JavaBeans, UML, JSP, JSON, Shell Scripting and WINDOWS 7, Jenkins, Git, J-unit, Selenium, Maven, QA, DEV, SOAP, WEB LOGIC, JDK.

**Certifications**:

* AWS Solution Associate Architect
* Google Cloud Engineer Associate
* Chef Developer