**RADHAKRISHNA D**

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**SUMMARY:**

* Sr. DevOps/Cloud Engineer with around 8 years of experience in IT industry with proven expertise in **Automation**, **Build/Release Engineering**, and **Software development** involving cloud computing platforms like **Google Cloud platform (GCP)**.
* Expertise in creating clusters in **Google Cloud** and manage the clusters using **Kubernetes**(k8s) and **Google Kubernetes Engine (GKE)**.
* Experience in setting up a **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 using **Kubernetes** and **Docker** for the runtime environment of the **CI/CD** system to build, test and deploy.
* Expertise in writing **Helm** Charts, Kubernetes, **YAML** files for deployment of microservices into Kubernetes clusters.
* Worked on Container management using **Docker** by writing Docker files and set up the automated build on **Docker HUB** and installed and configured Kubernetes.
* Experience with working on several Docker components like Docker Engine, Hub, Machine, Compose and **Docker Registry**.
* 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 **Auto scaler**in **Google Cloud Platform**.
* Experience in **Blue/green deployment** strategy by creating new applications which are identical to the existing production environment using **CloudFormation.**
* Experience in using Jenkins to deploy code to Google Cloud, create new **Namespaces**, creating docker images and pushing them to **container registry** of **Google Cloud**.
* Basic knowledge in Designed and configured **Azure Virtual Networks** (VNets), **subnets**, **Azure** network settings, and Security policies & configured **BGP** routes to enable ExpressRoute connections between on-premises data centers & **Azure** cloud.
* Experienced in all phases of the **software development life - cycle (SDLC**) with specific focus on the build and release of quality software. Experienced in **Waterfall**, **Agile/Scrum**, Lean and most recently **Continuous Integration (CI) and Continuous Deployment (CD)**practices.
* Experience on DevOps tools such as **Chef, Docker, Puppet, Jenkins, Maven, ANT, SVN, Vagrant,** and **Virtual Box.**
* Proficiency in using CI/CD tools like **Git, Jenkins, Maven,**and configuration management tools like **Chef, Ansible**and**Puppet**. Can setup environments for CI workflow.
* Experience in branching, tagging, develop, manage Pre-commit, Post-commit hook scripts and maintaining the versions across different Source Code Management (SCM) tools like **GIT**, **Subversion**(SVN) on **Linux**and **Windows**platforms and SCM client tools like **GitLab**, **GitHub**, **Git GUI,**and **Bit Bucket**.
* 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.**
* 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 Virtualization technologies **VMWare**, **Virtual box**, for creating virtual machines and provisioning environments and in using **Tomcat**and **Apache** web servers for deployment and for hosting tools.
* Expertise in working with different Bug Tracking Toolslike **JIRA**, **Bugzilla**, **ServiceNow**, Clear Quest,and Quality center.
* Experience in installing, configuring, managing **MYSQL Server, PostgreSQL, Oracle, MongoDB & Cassandra.**
* Ability to build deployment, build scripts and automated solutions using scripting languages such as **Bash, Shell**, **Ruby, and Python**.

**TECHNICAL PROFICIENCY:**

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| --- | --- |
| **OPERATING SYSTEMS** | RHEL/Centos 5.x/6.x/7, ubuntu/Debian 7/8/9/10, Windows Server 2012/2016/2019 |
| **LANGUAGES** | C, C++, Java/J2EE, PHP, HTML5, GO. |
| **SCRIPTING LANGUAGES** | Shell Script, Python, Ruby, Perl, Power Shell, JS, NodeJS, JSON, YAML. |
| **CLOUD PLATFORMS** | Google cloud Platform. |
| **CONTAINERIZATION/ORCHESTRATION TOOLS** | Docker, GKE, AZURE AKS, Kubernetes, Docker swarm, and Google Cloud Engine. |
| **MONITORING TOOLS** | Cloud Watch, Splunk, Nagios, Zabbix, SonarQube, S3(Simple Storage Service), Cron jobs. |
| **INFRASTRUCTURE AS CODE** | Terraform, Cloud Formation (CFT). |
| **BUG TRACKER & TESTING** | JIRA, Bugzilla, Crucible, Remedy. |
| **SDLC** | Agile, Scrum Methodologies, Waterfall. |
| **APPLICATION SERVERS** | WebSphere Application Server, Apache Tomcat, JBoss, WebLogic, Nginx. |
| **BUILD TOOLS** | Maven, Gradle, Sonar, Nexus. |
| **AUTOMATION & CONFIGURATION TOOLS** | Jenkins, Bamboo, Vagrant, Ansible, Hudson, ANT, Maven. |
| **SCM TOOLS** | GIT, GITHUB, GCP Source repository, GitLab, Subversion (SVN), and Bitbucket. |
| **TESTING TOOLS** | Junit, Selenium, Cucumber. |
| **DATABASE SYSTEMS** | SQL, Oracle, PL/SQL, MS Access, DB2, Mongo DB, Cassandra. |

**EDUCATION:**

* Bachelor of Technology (B. TECH) in Electronics and Communication Engineering from PNC & Vijai Institute of Engineering and Technology in the year 2011.

**PROFESSIONAL EXPERIENCE:**

**Client: JP MORGAN Chase, Plano, TX Jan2020 to Till Date**

**Sr. GCP/Cloud DevOps Engineer**

**Responsibilities:**

* Used Deployment Manager of **GCP** to launch instances and copy configurations into additional regions to tackle issues related to region outage.
* Implemented AWS **Code Pipeline**and Created Cloud formation **JSON**templates in **Terraform**for infrastructure as code.
* Automate provisioning and repetitive tasks using **Terraform**and **Python,** Docker container, Service Orchestration.
* Configured the Kubernetes cluster on **GCP** to establish communication between **pods** and MySQL instance.
* Participated in Querying RDBMS such as Oracle, MYSQL and SQL Server by using SQL for data integrity.
* Setup Alerting and monitoring using stack driver in **GCP**.
* Deployed and monitored scalable infrastructure on Google cloud & configuration management using **Docker** and **Google Kubernetes Engine (GKE).**
* Working with Solution architects to set up a dedicated **GCP** cloud environment for our project.
* Leveraged **cloud SDK** and **Google cloud CLI** to package and deploy containerized web applications on to the Google cloud platform and using **Google Kubernetes Engine (GKE)** to manage clusters and implemented auto scaling conditions to accommodate traffic variance.
* Created and deployed **Kubernetes pod** definitions, tags, labels, multi-pod container replication. Managed multiple Kubernetes pod containers scaling, and auto-scaling.
* Deployed pods using Replication Controllers by interacting with **Kubernetes** API server defining through declarative **YAML** files.
* 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 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, Environment’s 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.
* Add required images to Vagrant and create servers out of Images for testing and automated infrastructure build-out and systems provisioning using **Ansible** and Ansible Tower.
* Designed fully automated server build management, monitoring, and deployment by using Ansible playbooks using Ansible role created an **ELK cluster** for non-log purposes to search and analytics of product and pricing data.
* Developed build and deployment scripts using **MAVEN** as build tools in **Jenkins** to move from one environment to other environments and Supporting Maven multi-module builds and store artifacts in a remote repository in artifacts.
* Worked with the development team to generate deployment profiles (jar, war, rar) using **ANT** Scripts and **Jenkins.**
* Worked on writing **Jenkins** build 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.
* Deployed and configured **JIRA**, both hosted and local instances for issue tracking, workflow collaboration, and tool-chain automation.
* Used monitoring tools like **Nagios** and **Splunk** to improve application performance, helps to get the visibility & business context to meet business demands and implemented SPARK communication tool chat BOT for triggering alerts.
* Working Knowledge of databases like **MySQL**, **RDBMS**, 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 companywide 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:** Google cloud platform (GCP), MAVEN, Nexus, Terraform, Jenkins CI/CD, Nagios, JIRA, SHELL, Python, VPC, Autoscaling, Apache, JBoss, Nginx, Tomcat, GIT, Docker, Kubernetes, Service now, Cassandra, Blue/green deployment, Splunk.

**Client: Texas Medicaid HealthCare, Austin, TX**

**Sr. DevOps, Cloud Engineer Apr’17 – Dec’19**

**Responsibilities:**

* Migrated 9 microservices to **Google Cloud Platform** and have one more big release planned with 4 more microservices.
* Working on the migration of mobile application to cloud (**Google Cloud**) by making the chunk of code to microservices.
* Worked on Google Cloud components, **Google container builders** and GCP client libraries and cloud SDK’s.
* Worked Extensively on building and maintaining clusters managed by **Kubernetes**, **Linux**, **Bash**, **GIT,** **Docker** on GCP (Google Cloud Platform).
* Configuring and deploying instances on **GCP** environments and Data centers, also familiar with Compute, **Kubernetes Engine**, Stack driver Monitoring, Elastic Search and managing security groups on both.
* Implementing a **Continuous Delivery** pipeline with **Docker, Jenkins, GitHub** and **GCP** whenever a new GitHub branch gets started, Jenkins, our **Continuous Integration** server, automatically attempts to build a new Docker container.
* Used Kubernetes Service to deploy a managed **Kubernetes cluster** in and created an GKE cluster in **GCP** portal, with the CLI, also used template driven deployment options such as Resource Manager templates and Terraform.
* Involved in **CI/CD** process using **GIT**, **Nexus**, **Jenkins’s** job creation, **Maven** build and Create Docker image and use the docker image to deploy in **Google Cloud clusters**.
* Extensive Knowledge and hands-on experience implementing **PaaS, IaaS, SaaS** style delivery models inside the Enterprise (Data center) and in Public Clouds using like **AWS, Google Cloud,**and**Kubernetes** etc.
* Provisioning environments for QA as per the requirements and chasing timelines.
* Hands-on experience setting up **Kubernetes** (k8s) Clusters for running microservices. Took several microservices into production with **Kubernetes** backed Infrastructure.
* Very good understanding of Microservices architecture, adapting Industry best practices for Microservices while we break down existing apps into micro services.
* Created dynamic **routing/load balancing** capability enabling large application scaling, used ingress rules and Ingress Controllers - **Nginx**.
* Point team player on **Kubernetes** for creating new Projects, Services for **load balancing** and adding them to Routes to be accessible from outside, Creation of **Pods** through new application and control the scaling of pods, troubleshooting pods through ssh and **stack driver/Splunk logs**.
* Orchestrated **CI/CD** processes by responding to **Git triggers**, human input, and dependency chains and environment setup.
* Provide the permissions and required access to all the **pub/subtopics** and **sinks** to push/write the data to **Stack driver**.
* Setup **Alerting** and **monitoring** using **Stack driver** in **GCP**.
* Create custom log metrics using **Stack driver** logging and create charts and alerts using the custom log metrics.
* Developed a continuous deployment pipeline using **shell scripts** in **Jenkins**.
* Containerized all the ticketing related applications - Spring Boot Java and Node.js applications using **Docker**.
* Working with upstream teams like OpenAPI on day-to- day environment issues on **DEV** and **TEST** environment.
* Scheduled, deployed, and managed container replicas onto a node cluster using **Kubernetes**.
* Help provision and manage Google Cloud container clusters with **Chef**and**Puppet**.
* Deployed **microservices** in Prod.
* Trained staff on Kubernetes administration.

**Environment:** Google Cloud Platform (GCP), Kubernetes, GitHub, Jenkins, Docker, JIRA, Unix/Linux CentOS 7, Nexus V3, Bash Shell Script, Python, Node.js, Apache Tomcat, MongoDB, SQL, Nginx, RHEL 7, Stack driver, Splunk, Cavisson, ServiceNow, Chef, Puppet.

**Client: Toyota Motors, Plano, TX**

**Cloud/DevOps Engineer Sep’16 – Mar’17**

**Responsibilities:**

* Worked with DevOps platform team was responsible for specialization areas related to **Puppet** for cloud automation. Implementing Change requests for server configuration, software installation. Managing **Linux VMs** using puppet as per project requirements.
* Automation configuration and **deployment** of Linux and Windows machines using **Puppet**.
* Implemented **Puppet Master, Puppet Console**and**Puppet Agents, Create Puppet modules**and**Classes.**
* Deployed and monitored scalable infrastructure on Amazon Web Services (**AWS**) & configuration management using **Puppet**.
* Redesigned and redeployed the **Nagios**implementation. Nodes automatically added/removed themselves via **Puppet**.
* Installed and configured **Docker, Docker images, Docker Hub registers**and**Containers**.
* Enhance **SDLC** cycle by using **Docker** containers delivered with **OpenShift** for web application deployment.
* Installed, Configured and Managed **monitoring tools** such as **Nagios, Splunk** for Resource Monitoring/Network Monitoring/Log Trace Monitoring.
* Implementing a Continuous Delivery framework using **Jenkins, Chef**and**Maven** in Linux environment.
* Responsible for design and maintenance of the **SVN/GIT repositories** and the access control strategies.
* Provided end-user straining for all **SVN, JIRA** users to effectively use the tool.
* Architecting **High Available, Auto Scalable**platforms in **Google cloud**on**Windows & Linux.**
* Created a Jenkins job to deploy **CloudFormation** stacks and remove old stacks upon successful completion using ruby scripts.
* Created many **PowerShell** scripts to improve processes and efficiencies.
* Create and augment **PowerShell** Batch and VBS Scripts for efficiency and streamline-ability regardless of manufacturer and vendor implementation.
* Used **CloudWatch** to create monitors, alarms, and notifications.

**Environment:** IAM, RDBMS, Windows R2 Servers, Linux, GIT, Maven, Chef, Elasticsearch, Logstash and Kibana, Docker, Jenkins, PowerShell, Python, Ruby, Perl, Bash, Nagios, JIRA, DynamoDB, MongoDB.

**Medico Healthcare Services & Technologies, Hyderabad, India Sep’11 – Sep’15**

**JAVA/J2EE Developer**

**Project Name: Employee Care**

**Description:** Medico Healthcare Services & Technologies is a product-based enterprise. Certified by relevant quality standards, the products carry a high degree of precision, attributing a certain degree of reliability. This enterprise is also an authorized service provider for surgical and mobility equipment. Developed an application Employee Care System. Existing employees can login into their account and get the existing information and make changes to it on request approval from admin. They can also submit the payments online and can apply for new claim or check the claim status. New users can do the registration process to create the account and get the quotes for new plan.

**Responsibilities:**

* Set up Jenkins’s 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**.
* Coordinated with**QA**and **DEV** teams for validating the CRs.
* Created conditional logic in pages using **JSF tags** and JSTL.
* Developed the application web pages using **HTML, CSS, JSP, Java script** 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**.
* Implemented presentation layer using **Struts, JQuery**.
* Implemented user interface (**UI**) using **JSP, HTML** and CSS.
* Extremely used plain **JavaScript** library to do the client-side validations.
* Developed data access components using **JDBC, DAOs**, and Beans for **data manipulation**.
* Developed several REST web services supporting both **XML** and **JSON** to perform tasks.
* Implemented the functionalities using **Java, JSP, Servlets** and **J2EE framework**.
* Developed **front-end screens** with HTML, CSS, JavaScript and JSP's.
* Extensively did client-side validations using **JavaScript** and developed the required **Servlets**.
* Designed and developed a **JDBC** driver that interacts with the database by intercepting **SQL**.
* Worked with JDBC programs using **MySQL** databases and develop 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, JUnit, Selenium, Maven, QA, DEV, SOAP, WEB LOGIC, JDK.