**ACHYUTH REDDY**

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**PROFESSIONAL SUMMARY**:

* Skilled IT professional with 6 years’ IT experience, looking for a position in areas of **Software Configuration Management, Version Control, Build and Release management, Change management, Cloud Integration.**
* In-depth knowledge of DevOps management methodologies and production deployment Configurations.Skilled at Software Development Life Cycles and **Agile Programming Methodologies**.
* Develop automation and processes to enable teams to deploy, manage, configure, scale, monitor applications in **Data Centers and in AWS Cloud.**
* Experienced in authoring pom.xml files, performing releases with the Maven release plug-in and managing Maven repositories.
* Involved in ARTIFACTORY Repository Managers for MAVEN and ANT.
* Extensive experience with AWS (Storage, Application Services, Deployment and Management) and managed servers on AWS platform instances using Puppet, Chef Configuration management.
* Hands on experience in AWS provisioning and good knowledge of **AWS services** like **EC2, S3, Glacier, ELB, RDS, Redshift, IAM, Route 53, VPC, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Cloud Formation, Security Groups.**
* Skilled in monitoring servers using **Nagios, Datadog, Cloud watch and**using**ELK Stack, Elastic Search**.
* Created tagging standards for proper identification and ownership of **EC2 instances** and other AWS resources.
* Experience in managing infrastructure resources in **cloud architecture** with close coordination with various functional teams.
* Experience with Version Control Systems like **GIT, CVS, SVN (Subversion).**
* Experienced in authoring pom.xml files, performing releases with the **Maven** release plug-in and managing **Maven repositories**.
* Configured **JENKINS** Monitor, List and Build views to displays the status and progress of selected jobs with build version information.
* Automated application deployment in the cloud using **Docker technology using Elastic Container Service scheduler**.
* Created and managed a **Docker** deployment pipeline for custom application images in the cloud using Jenkins.
* Used **Kubernetes** to deploy scale, load balance, scale and manage docker containers with multiple versions.
* Used **Kubernetes** to orchestrate the deployment, scaling and management of **Docker** Containers.
* Involved in the functional usage and deployment of applications in **Apache Tomcat** and **Web Logic Server**.
* Configured and Deployed application packages on to the **Apache Tomcat** server. Coordinated with software development teams and QA teams.
* Worked with **IAM** service creating new **IAM** users & groups, defining roles and policies and Identity providers.
* Experience in monitoring tools such as ELK **Stack, AppDynamics, JIRA, and Service now** for change management, automating the tasks and bug tracking. Maintaining documents on confluence and experience on 3-Tier and N-Tier Environment.

**CERTIFICATIONS:**

Amazon Web Services Certified **Solutions Architect** Associate

**EDUCATION:**

Master’s in **Business Intelligence,** Saint Joseph’s University, Philadelphia, PA**. May 2016**

**TECHNICAL SKILLS:**

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| **Cloud Technologies** | Amazon Web Services (AWS), Microsoft Azure**.** |
| **Version Control Tools** | Visual SVN, Tortoise SVN, GIT |
| **Build Tools** | ANT, MAVEN, Artifactory |
| **Databases** | MySQL, MongoDB, Cassandra, Postgre SQL, SQL Server, No SQL |
| **CI Tools** | Jenkins, Circle CI**,** Hudson |
| **Config Management Tools** | Puppet, Chef, Ansible, Docker |
| **Bug/Issue Tracking** | JIRA, Rally, Fisheye, Remedy, ServiceNow |
| **Web/ Application Servers** | Apache Tomcat, Web logic |
| **Scripting/Programing Languages** | Perl, shell, Ruby, Python, C, SQL, Java Script, PHP, HTML, Java, J2EE, Spring |
| **Version Control Tools** | Git, Tortoise SVN, TFS |
| **Web Services** | SOAP, REST |
| **OS & Environment** | Windows Family, RHEL, Ubuntu, CentOS |
| **Methodologies** | Waterfall, Agile |
| **Other Tools** | Putty, Nagios, ClearCase, Salesforce, CloudFormation and Terraform |

**WORK EXPERIENCE:**

**John Deere, Moline, Illinois**

**Role: Cloud DevOps engineer Feb 2018 -Till date**

**Responsibilities:**

* Involved in designing and deploying multiple applications using **AWS cloud infrastructure** focusing on high availability, **fault tolerance** and auto-scaling of the instances.
* Leveraged Amazon Web Services like **EC2, RDS, EBS, ELB, Auto scaling, AMI, IAM** through AWS console and API Integration.
* Automated AWS components like EC2 instances, Security groups, ELB, RDS, IAM through AWS Cloud information templates.
* POC on Implementing AWS Kinesis based consumers in Lambda and pipeline data to a data lake while allowing real time analytics using DynamoDB and ordering based on the location of mobile users and ordering trends
* Installing and Configuring AppD& Grafana and Logstash and FileBeat for monitoring and transferring logs to Elastic search.
* Used **Jenkins pipelines** to drive all micro services builds out to the Docker registry and then deployed to Kubernetes, **Created Pods** and managed using **Kubernetes**
* Experience in designing and deploying AWS Solutions using EC2, S3, and **EBS, Elastic Load balancer (ELB), auto-scaling groups.**
* Used Micro services architecture with **Spring Boot** based service through **REST**
* Using Jenkins **AWS Code Deploy** plugin to deploy to AWS
* Experience in creating alarms and notifications for EC2 instances using Cloud Watch.
* Creating Lambda function to automate snapshot back up on AWS and set up the scheduled backup.
* Worked on creating the Docker containers and Docker consoles for managing the application life cycle.
* Experience with **ElasticSearch, Logstash and Kibana stacks**.
* Worked closely with developers and managers to resolve the issues that were risen during the deployments in different environments.
* Worked on **Docker** hub, creating Docker images and handling multiple images primarily for middleware installations and domain configurations.
* Integrated Docker container-based test infrastructure to **Jenkins** CI test flow and set up build environment integrating with Git and Jira to trigger builds using Web Hooks and Slave Machines.
* Configured and maintained Jenkins to implement the CI process and integrated the tool with **GIT and Maven to schedule the builds.**
* Implemented new build framework using Jenkins & maven as build framework tools. Configured Jenkins daily periodic backups for Jenkins config and plugins files.
* Worked with data management tools like AppDynamics, **ELK. Used AppDynamics** to monitor metric collection for applications in a cloud-based environment.
* Experience in using **SQL, PL/SQL** stored procedures, indexes, materialized views, python scripting, partitioned and non-portioned tables, packages and triggers for improved performance of the database.
* Deployed a microservice based application which is containerized using **Docker** onto a **Kubernetes** cluster managed by Amazon Elastic Container Service for Kubernetes (EKS).
* Created Ansible playbooks to automatically install packages from a repository, to change the configuration of remotely configured machines and to deploy new builds.
* Developing scripts for build, deployment, maintenance and related tasks using **Jenkins, Docker, Maven, Python** and Bash
* Expertise in solving manual redundant infrastructure issues by creating CloudFormation Templates using AWS's Serverless application model and deploy RESTFUL APIs using API gateway and triggering **Lambda Functions**.

**Environment**: Docker, Kubernetes, Python, Linux, Shell, Ansible, AWS, GIT, Rally, Jenkins, Amazon IAM, S3 Buckets, CloudWatch, Route53, RedShift, RDS, EC2, EBS, Elastic Search, Log Stash, API Gateway.

**Client: Thomson Reuters, Carrollton, Texas**

**Role: AWS/Cloud DevOps Engineer Jun 2017 - Feb 2018**

**Responsibilities:**

* Designed and architected solutions for existing client facing applications as they are moved into AWS cloud environments.
* Planned, deployed, monitored, and maintained **AWS cloud infrastructure** consisting of multiple EC2 nodes as required in the environment.
* Experience in **IaaS managing** Amazon Web Services (AWS) infrastructure with automation and configuration management i.e. **Ansible.**
* Configured **Ansible** to manage AWS environments and automate the build process for core AMIs used by all application deployments including **Auto Scaling and Cloud Formation Scripts**.
* Experience in building new application and deployment through Ansible and managing them in production environment.
* Worked with **ElasticSearch and utilized NOSQL** for non-relation data storage and retrieval.
* Worked on creation of **Ansible manifest** files to install tomcat instances and to manage configuration files for multiple applications.
* Managing existing infrastructure and created new infrastructure using **Ansible** as Configuration Management Tool.
* Worked on infrastructure with **Docker containerization** and maintained **Docker Images** and containers.
* Responsible for automated identification of application server and database server using Ansible Scripts.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, stack monitoring using Ansible playbooks and has Integrated **Ansible with Jenkins**.
* Ran **Ansible playbooks** and created various roles for applications, then deployed the Applications/Services on hosts.
* Used Ansible to manage systems configuration to facilitate interoperability between existing infrastructure and new infrastructure in alternate **physical data centers or cloud (AWS).**
* Used Ansible to Setup/teardown of **ELK stack (Elasticsearch, Logstash, Kibana)** and troubleshoot the build issues with **ELK** and work towards the solution
* Written the **Ansible playbooks** to pre-load configurations when new Jenkins is created and automated the infrastructure deployment process.
* Built shell scripts to create, update and delete the stacks in **AWS CloudFormation**.
* Created required infrastructure for each project to use Jenkins to run **AWS CloudFormation** stacks securely.
* Used **Ansible** to automate repetitive tasks, and to quickly deploy critical applications and Implemented **Ansible Tower** dashboard and role-based access control.
* Configuring, automating and maintaining build and deployment **CI/CD tools Git, Jenkins** with high degrees of standardization for both infrastructure and application stack automation in AWS cloud platform.
* Strong practical Linux and Windows-based systems administration skills in AWS Cloud.
* Setup and build AWS infrastructure like VPC EC2, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in **CloudFormation YAML templates**.
* Implement safeguards to maintain data integrity and **data security, create protocols** for backup and **disaster recovery.**
* Configured security in Jenkins. Added multiple nodes to **Jenkins and configured SSH** for continuous deployments. Managed and assigned roles in Jenkins for users based on applications.
* Reduce operational costs through service optimizations and demand-based auto-scaling.
* Expert in User Management and **Plug-in Management** for Jenkins.
* Granted security and configured user access and limits using **AWS Identity and Access** Management (IAM) by creating new profiles, roles, groups and policies for user management.
* Use nested stacks for resources with same configuration, created multiple instances with reusable templates.

**Environment**: Linux, Shell, Ansible, AWS, Docker, GIT, JIRA, python, Jenkins, Amazon IAM, S3 Buckets, EC2, RDS, EBS, CloudFormation, Elastic Search, Log Stash, Java.

**Client: Synchrony Financial, Stamford, CT**

**Role: Cloud DevOps Engineer Jan 2016 – May 2017**

**Responsibilities:**

* Coordinate with the Development, Database Administration, QA, and IT Operations teams to ensure there are no resource conflicts.
* Responsible for managing infrastructure provisioning (**S3, ELB, EC2, RDS, Route 53, IAM, security groups - CIDR’s, VPC, NAT) and EC2 Installs with Linux, Ubuntu and Scientific Linux.**
* Involved in maintaining the user accounts (IAM), **RDS, Route 53, VPC, RDB, DynamoDB, SES, SQS and SNS services template.**
* Worked on Auto scaling, Cloud watch(monitoring), **AWS Elastic Beanstalk (app deployments), Confidential S3(storage) and Confidential EBS (persistent disk storage).**
* Implemented and maintained the monitoring and alerting of production and corporate servers/storage using **AWS Cloud watch**.
* Created the AWS VPC network for the Installed Instances and configured the **Security Groups and Elastic IP's accordingly**. Installing the **Load Balancers** and VPC with Public and private subnets.
* Managed servers on the Confidential Web Services (AWS) platform instances using, **Chef Configuration management.**
* Installed Workstation, Bootstrapped Nodes, Wrote Recipes, and Cookbooks and uploaded them to Chef-server, Managed On-site OS/Applications/Services/ Packages using Chef as well as **AWS for EC2/S3 and ELB with Chef Cookbooks.**
* Written Chef Cookbooks for various DB configurations to modularize and optimize end product configuration. Converting production support scripts to chef recipes and AWS server provisioning using Chef Recipes.
* Worked with various scripting languages like **Python** and wrote scripts in python for pushing data from **NoSQL Database to MySQL Database**.
* Developed the chef recipes and uploaded them to the master chef server using chef client tool like chef-repo.
* Performed Integrated delivery (CI and CD process) Using **Jenkins. Branching, Tagging, Release Activities on Version Control Tools: SVN, GitHub.**
* Application Deployments & Environment configuration using Chef, Ansible. Written Ansible Play books to configure, install software and other packages on to the application.
* Maintain Chef servers and management application that can use Service Now (CI) data to bring computers into a desired state by managing files, services, or packages installed on physical or virtual machines.
* Understanding & usage of Atlassian tools (i.e. Bamboo, JIRA). Working with JIRA tool to track all the defects and changes released to all environments.
* Developed and maintained **Python /Shell** scripts for build and release tasks.
* Integrated Maven with Jenkins for the builds as the **Continuous Integration process**.
* Ensured all steps are successfully completed and document their completion times and issue logs.

**Environment:** Chef, Python, Perl, Shell Scripting, Subversion, Jenkins, Cloud formation, EC2, S3, CloudFront, Route 53, GIT, Web services, Web Logic, Splunk.

**Client: Elegant Embedded Systems, Hyderabad, India.**

**Role: Software Engineer Jan-2014- Dec 2014**

**Responsibilities:**

* Worked closely with the Development Team in the design phase and developed use **case diagrams** using Rational Rose.
* Worked with the Architects on **SDLC process** being the owner of post development environments.
* Coordinating the resources by working closely with Project Manager's for the release and **Project Manager** for all the Operational Projects.
* Carried Deployments and builds on various environments using **Build Forge Automation** tool.
* Developed and implemented the software release management for the release of web applications.
* Wrote **ANT Scripts** to automate the build process.
* Designed a customized Status Reporting tool used currently, based on the specific requirements using J2EE/Struts and **Web Sphere Application** Server with **DB2** as Database.
* Involved in implementation of the presentation layer GUI for the application using **JSF, HTML, XHTML, CSS and JavaScript**.
* Co-coordinated Instance Refreshes and Environment Re-base lining.
* Coordinated all the IT projects successfully by resolving release interdependencies and planning release.
* Planning, scheduling and documenting releases at code Freeze Periods.
* Sole person to be responsible for Release/Change control Process.
* Automated tasks using bash, **cron shell scripts**.
* Involve multiple teams sometime for providing a quick resolution to a high priority ticket.
* Support Production Systems, which involved day-to-day operation and Desktop support (Local and Remote).