Achyuth Rao P

Sr. DevOps /Cloud engineer

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Professional Summary:

* Over 6+ years of IT Professional Experience including Linux System Administration and Build Engineer with a major focus on DevOps, Cloud technologies, Continuous Integration/Deployment, Configuration Management, Source Code Management, and Virtualization technologies which include Troubleshooting Performance issues.
* Expertise in Amazon AWS Cloud services like EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Glacier, Kinesis, Auto scaling, CloudFront, CloudWatch, CloudTrail, Cloud Formation, Elastic Beanstalk, OPS Work, Amazon Lambda, Security Groups.
* Using Clover ETL migrated data to AWS Redshift and used AWS Beanstalk for fast deploying, scaling, and load balancing of web applications and services developed with Java, PHP, Node.js, Python, Ruby, and Docker on familiar web servers such as Apache, and IIS.
* Experience in using CloudFormation template for reliable provisioning of initial infrastructure (stacks) like IAM roles & policies, S3 buckets, and bucket backups on AWS.
* Expert in Orchestration & Migration of CI/CD processes using CloudFormation, Terraform Templates & Containerization of Infrastructure using Docker, which was set up in, AWS, and VPC.
* Expertise in working with Terraform key features such as Infrastructure as a code (IaaS), Execution plans, Resource Graphs, Change Automation and extensively used Auto scaling launch configuration templates for launching Amazon EC2 instances while deploying microservices
* Extensively worked on Jenkins and Bamboo by installing, configuring, and maintaining the purpose of Continuous Integration (CI) and for End-to-End automation for all build and deployments implementing CI/CD for the database using Jenkins in Groovy.
* Good knowledge and hands-on experience in the new Salesforce version, Lightning.
*  Gained knowledge in code deployments from Sandbox to another environment by using Eclipse IDE and Change Sets.
* Worked on Jenkins integration with SonarQube checkmark back dock Jforg Nexus Ansible. Involved in troubleshooting and fixing build and deployment in Jenkins.
* Experienced in branching, tagging, and maintaining the version across the environments using SCM tools like Git, GitHub, Subversion (SVN) , and TFS on Linux and Windows platforms.
* Hands-on experience using MAVEN, ANT, and Gradle as build tools for the building of deployable artifacts (jar & war) from the source and static code analysis using SonarQube.
* Good knowledge of Installation and Configuration of Nexus repository manager for sharing the artifacts within the company and efficient in using Nexus and Artifact Repository managers for Maven builds.

TECHNICAL SKILLS:

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| Cloud | AWS, Azure, OpenStack. |
| Configuration Management Tools | ANSIBLE |
| CI/CD Tools | Jenkins, Hudson,Gitlab,Github actions |
| Migaration Tools | DMS,Spark,Hive |
| Container Tools | Docker, Kubernetes, EKS, ECS, ECR, AKS, ACR |
| Version Control Tools | GIT, CVS, SVN, Bit Bucket, GitHub, GitLab |
| Monitoring Tools | Nagios, Splunk, ELK, Cloud watch |
| Scripting | Bash/Shell, Perl, Python, Ruby, PowerShell, Groovy, YAML, C, C++ |
| Databases | MySQL, Oracle 9i/10g/11g, DB2, NoSQL (MongoDB, DynamoDB) |
| Application Servers | WebLogic 9.x/10.x, WebSphere 6.x/7.x/8.x, JBOSS 4.1 |
| Web Servers | Apache HTTP, Nginx, Apache TOMCAT |
| Networking | DNS, DHCP, SMTP, HTTP, SNMP |
| IDE Tools | ECLIPSE IDE, NETBEANS |
| Operating Systems | Linux (RedHat), Ubuntu, Unix, Windows XP/Vista |
| Virtualization Tech | VMware vSphere ESXi 5.x/4.x, ESX /3.x, VMware Workstation, Oracle Virtual box |

Professional Experience:

Sr. Cloud/DevOps Engineer Mar 2021 - Present

Assure Care LLC

Cincinnati, Ohio

* Deployed and configured Elasticsearch, Logstash, and Kibana (ELK) for log analytics, and application monitoring in integration with AWS Lambda and CloudWatch. Then store those logs and metrics in an S3 bucket using the Lambda function.
* Integrated AWS Dynamo DB using AWS lambda to store the values of items and backup the Dynamo DB streams, implemented load balanced, highly available, auto-scaling Kubernetes AWS infrastructure and microservice container orchestration.
* Worked with Terraform Templates to automate the AWS IaaS virtual machines using terraform modules and deployed virtual machine scale sets in a production environment.
* 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 Webhooks and Slave Machines.
* Implemented Docker-Maven plugin 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.
* Worked with RedHat OpenShift Container Platform for Docker and Kubernetes. Used Kubernetes to deploy scale, load balance and manage Docker containers with multiple namespace versions.
* Developed microservice onboarding tools leveraging Python and Jenkins, allowing for easy creation and maintenance of build jobs, Kubernetes deploy, and services.
* Designed, installed, and implemented the Ansible configuration management system and used Ansible to manage Web apps, used Ansible Tower to automate repetitive tasks, quickly deploy critical applications and proactively manage change.
* Wrote several Ansible playbooks for the automation that was defined through tasks using YAML format and run Ansible Scripts to provision Dev servers.
* Implemented and designed AWS virtual servers by Ansible roles to ensure deployment of web applications.
* Created Ansible roles in YAML and defined tasks, variables, files, handlers, and templates. Created inventory and configured the Ansible files for parallel deployment in Ansible for automating the Continuous delivery process.
* Working with multiple sources and loading the data from the source system to the target system by using the Data Migration tool and spark jobs.
* Working with the airflow and loading the data on daily basis by scheduling the daily jobs.
* Working with CloudFormation and terraform witting those scripts and deploying to the public clouds by pipelines which are jenkins and Gitlab pipelines.
* Used Jenkins as Continuous Integration tool to deploy the Spring Boot Microservices to AWS Cloud and OpenStack using build pack.
* Worked in complete Jenkins plugins and administration using Groovy Scripting, setting up CI for new branches, build automation, plugin management and securing Jenkins, and setting up master/slave configurations. Deployed and configured Git repositories with branching, forks, tagging, and notifications.
* Used Jenkins to do code builds from Git to perform the Salesforce deployments.
* Created Sandboxes and performed the entire con guration activities of the new sandboxes as per the bank’s policies.
* Introduction to Mule, checked and changed the mule build numbers/versions to make sure the new mule versions are set in the repo. Undeployed the older versions/duplicate versions to replace them with the new versions.
* Created and con gured new users and permissions respectively. Assigned di erent pro les to users as per the requirements to perform their duties.
* Performed the entire Salesforce deployments using auto deploys in Salesforce, performing Deletes by pulling the delete scripts from the respective branches and executing them in anonymous window in developer console, performing Upserts operations through Jenkins to upsert the code updates/new codes into the respective Salesforce environments by manually setting the build parameters and deploying from Jenkins.
* Executed various Salesforce manual tasks (Pre and Post Deploy) in order to con gure the respective Salesforce environments for the deployment and also con gure as per the business needs after deployments.
* Reviewed and executed various pre deployment and post deployment manual tasks in JIRA. Continuous JIRA reviewing to ensure the quality of the tasks, to assign right statuses of the tasks after their execution in various environments.
* Executed apex scripts in various Salesforce environments to test and complete the new functionalities developed by the developer teams.

Environment: Amazon Web Services, Chef, Ansible, Docker, Kubernetes, Maven, Jenkins, GIT, Cassandra, AEM, Python, Openshift, Jira, Dynatrace, Terraform. Elasticsearch, Logstash, ELK, AWS Lambda, CloudWatch, S3 bucket.

DevOps Engineer Aug 2020 – Mar2021

Entergy

Austin, Tx

* Performed the automation deployments using AWS by creating the IAMs and used the code pipeline plugin to integrate Jenkins with AWS and created the EC2 instances to provide the virtual servers.
* Written AWS CloudFormation Templates for different services like CloudFront Distribution, API Gateway, Route 53, Elastic Cache, VPC, Subnet Groups, Security Groups.
* 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.
* Involved in many different concepts of Chef like Roles, Environments, Data Bags, Knife, and Chef Server Admin/Organizations. Written Chef Recipes to automate build/deployment process and data bags in Chef for better environmental management.
* Wrote Chef Cookbooks for various DB configurations to modularize and optimize product configuration, converting production support scripts to Chef Recipes and AWS server provisioning using Chef Recipes.
* Tested Chef Cookbook modifications on cloud instances in AWS and used Test Kitchen and Chef Spec and used Ohai to collect attributes on a node. Worked on Chef DK which takes of care creating cookbooks and recipes.
* Implemented a Continuous Delivery pipeline with Docker, Jenkins, and GitHub, whenever there is a change in GITHUB, our Continuous Integration server automatically attempts to build a new Docker container from it.
* Responsible for installation & configuration of Jenkins to support various Java builds and Jenkins’s plugins to automate continuous builds and publishing Docker Images to the Nexus Repository.
* Used Git for source code version control and integrated with Jenkins for CI/CD pipeline, code quality tracking and user management with build tools Maven and written Maven pom.xml build script.
* Worked with the OpenShift Enterprise which allows developers to quickly develop, host, and scale applications in a self-managed cloud environment.
* Worked on NoSQL database MongoDB to replica setup and sharing. Also experienced in managing replica set. Installed, Configured, and Managed Monitoring Tools such as Nagios for Resource/Network Monitoring.
* Developed self-service/automation tools leveraging Python ec2-boto, fabric, and Jenkins which increased the efficiency of DevOps and development tasks.
* Used Selenium for continuous inspection of code quality and to perform automatic reviews of code to detect bugs. Automated Nagios alerts and email notifications using Python script and executed them through Chef.

Installed, configured, and maintained web servers like Apache Web Server and WebSphere Application Server on Red Hat Linux.

Environments: AWS (EC2, S3, Route 53, EBS, Security Group, Auto Scaling, and RDS), GIT, Chef, Docker, Selenium, Maven, Jenkins, ANT, Python, Jira, Nagios.

DevOps Engineer Jan 2019 - Nov 2020

Centene Corporation

Dallas, Tx

* Responsible for Creating Builds, Staging and deploying Software Content across multiple environments (DEV, QA, Demo, Test, Staging, UAT, and Production).
* Designed and managed Build and Release cycle activities in Agile Methodologies. Developed build and deployment processes for Pre-production environments. Managed Sonatype Nexus an enterprise-level package management server.
* Used Puppet to manage Web Applications, Configuration Files, Database, and Packages. Used Puppet to automate Configuration management & Applications.
* Implemented Puppet modules for server housekeeping. Built a new CI pipeline. Testing and deployment automation with Puppet.
* Enhanced Configuration Management using PUPPET to assist with automated, repeatable, and consistent configuration and application deployments.
* Automated the Builds of Java and PHP applications using Bamboo CI tool. Integrated the Bamboo with Maven
* Administration of Bamboo. Implemented a Continuous delivery framework using Bamboo, and Oracle in Linux Environment.
* Installed and configured a Bamboo server for CI to automate the release management for applications and created a continuous delivery pipeline.
* Installing, configuring and maintaining DB servers, LAMP servers andfile-sharingg servers like Samba, NFS, FT,P and Web Sphere & Web Logic Application Servers.
* Migrating J2EE applications to UNIX and Windows environments by configurinapplicationson via Subversion, and Jenkins also Worked closely with the Development Team in the design phase and developed Use case diagrams using Rational Rose.
* Setting up Jobs for Plugin Management, Build/Deploy Pipeline setup and User management.
* Maintained build-related scripts developed in shell for Maven builds. Created and modified build configuration files including POM.xml. Configured Jenkins to build Java Code using Meta Case Software and executed CI process on the Java code generated.
* Installed and configured database agents to troubleshoot slow response times and excessive loads.
* Developed and implemented Software Release Management strategies for various applications according to the Agile process.
* Configured Linux servers for clusters of Oracle Real Application and configured SAN-based mount points as well.

Environments: Maven, Bamboo, Puppet GIT, Chef, Docker, Selenium, Maven, Jenkins, ANT, Python, Jira, Nagios.

Build Engineer Jan 2018 – July 2019

Value Labs

Hyderabad, India

* Management of user accounts, files and directory permissions, and securing UNIX systems to match industry best practices. Wrote shell scripts for the automation of daily tasks and created jobs as the per performance of the client’s network statistics(/var/log/messages). Built backup scripts to store VM imthe ages on local machine and mirrored the images on to webserver, with resync.
* Experience in Installation, Configuration, Upgrade, Patches, and performance tuning on UNIX and system software & hardware.
* Monitoring of web servers and other services using Nagios monitoring tool.
* Experienced with internetworking using TCP/IP and resolving network connectivity using tools like dig, nslookup, ping. Configured kickstart server and updating/applying patches to the servers using Red Hat Satellite server. Maintained Samba File Server for user authentication, syslog domain and file sharing.
* Involved in designing Firewall rules for new servers to enable communication with applications, Oracle 10g servers.
* Environments: LINUX/UNIX, Solaris, Virtual Machines, Samba Server, NFS Server, NIS Server, TCP/IP, Oracle 10g, Kickstart, Red Hat Satellite, VM ware/Box.

Linux System Administrator May 2016 – Jan 2018

Sonata Software

Hyderabad, India

* Administered Red hat Enterprise Linux 5.x/ 4.x, OEL 5.x, & Solaris 9 Servers by testing, tuning, upgrading, patching, and troubleshooting both Physical and virtual server problems.
* Installed and maintained regular upgrades of Red Hat Linux Servers using kickstart-based network Installation and maintained a RHEL satellite server, Apache web server and sftp.
* Used Veritas File system and Veritas Volume Manager 5.0 to configure the RAID 1 & RAID 5 Storage System for more redundancy.
* Created the LDAP Scripts which monitors the LDAP connectivity and alerts the Admin Group if the connection is closed. Also administered Active Directory Servers.
* Configured Proxy Server (Squid), DNS, FTP and DHCP servers on Red Hat Enterprise Linux and maintained system securities using IPTABLES.
* Developed PERL & Shell scripts for automation of the build and release process. Developed automation scripting in Python to deploy some applications.
* Upgraded Red hat Linux OS on WebSphere and Oracle database servers from V3, V4 to V5. Monitored servers, switches, ports etc. with Nagios monitoring tool.
* Responsible for setting up Cronjobs scripts on production servers and implementation of password less (SSH) authentication between servers.

Environment: RedHat Enterprise Linux 5.x/4.x, OEL 5.x, Solaris 9, LVM, RAID, Oracle, WebSphere, MySQL, TCP/IP, DNS, NIS, NFS, ClearQuest, Apache Tomcat.