**Anudeep Jolly**

**Sr. DevOps Engineer**

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**Professional Summary:**

* Over **9+ years** of IT experience as a AWS DevOps engineer/ Linux System Administrator worked on several operating systems like Red Hat Enterprise Linux, CentOS, Ubuntu Linux, SuSE, and Solaris. Extensively worked on Cloud Management i.e. Amazon Web Services, Azure, Configuration Management and Continuous Integration tools such as Ansible, Jenkins and GIT
* Extensively worked on Creating and maintaining user accounts, profiles using AWS-IAM. Created IAM roles for different users including developers, system admins, and network admins
* Extensively Used Cloud Watch to monitor the AWS services like EC2, Amazon RDS DB services, EBS volumes to set alarms for notification or automated actions and to monitor logs for a better understanding and operation of the system.
* Highly experienced Azure IAM and DevOps Engineer in Automating, configuring, and deploying instances. on Microsoft AZURE environments.
* Extensive experience in data preprocessing, including data cleaning, feature extraction, normalization.
* Built and trained ML models for tasks like classification, regression, and clustering, achieving (mention specific performance metrics).
* Strong Experience on AWS platform and its dimensions of scalability including EC2, S3, EBS, VPC, ELB, AMI, SNS, RDS, IAM, Route 53, Auto scaling, Cloud Watch, OPS Work, Security Groups.
* Proficient in creating visually appealing and interactive dashboards using Grafana.
* Experience in branching, tagging and maintaining the version across the environments using SCM tools like Git hub, Bitbucket, Git on AWS and Linux.
* Used Rundek as an Automation tool for deployment of multiple resources.
* Proficient in creating and configuring workflows in GitHub Actions for automation.
* Implemented CI pipelines to build, test, and validate code changes upon every push.
* Proficient with container systems like Docker and container orchestration like EC2 Container Service, Kubernetes, worked with Terraform
* Used Kubernetes to orchestrate the deployment, scaling and management of Docker Containers
* Expertise in working with AWS provided Solutions like EC2 and ELB which includes Creating EC2 instances, adding EBS volumes for EC2 and familiar with VPC, Route 53, RDS, S3, IAM, SNS, SQS, SES, Auto scaling, and Cloud Watch
* Experience with managing containers with Docker & Servers in containers.
* Extensively worked on Copy Command in Snowflake.
* Worked on designing and implementing data models and architectures within Snowflake.
* Configured GIT with Jenkins and schedule jobs using POLL SCM/Webhooks option and integrated to automate the code checkout process
* Expertise in DevOps, Configuration Management, Cloud Infrastructure, End-to End Automation which includes Azure, Amazon Web Services, Jenkins, Maven, GitHub, Ant, SonarQube, Ansible, Chef, Tomcat, JBoss, and Linux.
* Created and wrote shell scripts (Bash) for automating tasks.
* Designed data model using dbt to create structured, clean, and easily accessible datasets.
* Conducted thorough code quality assessments using SonarQube to identify and rectify code issues and vulnerabilities.
* Expertise in managing versioning and metadata for artifacts in Artifactory, ensuring accurate tracking and retrieval.
* Experience with Build Management Tools Ant and MAVEN and managing build.xml and Pom.xml files.
* Expertise in processing large volumes of data using Databricks, leveraging distributed computing capabilities for efficient data processing.
* Expertise in writing SQL queries and using Dataframe APIs in Databricks for data extraction, manipulation, and aggregation.
* Expertise in utilizing a wide range of panel types (Graph, Stat, Table, Singlestat) for effective data representation.
* Extensively worked on Jenkins for continuous integration and for End-to-End automation for all build and deployments. Configured Jenkins daily periodic backups for Jenkins config and plugins files
* Collaborated with cross-functional teams to define IoT device requirements, including hardware specifications, connectivity options, and data transmission protocols
* Worked with RedHat OpenShift Container Platform (OCP) for Docker and Kubernetes, used Kubernetes to manage containerized applications using its nodes, ConfigMaps, node-selector, Services and deployed application containers as pods.
* Hands on experience on Groovy for scripting, implementation and to streamline the different processes.
* To enhance the release management process Groovy scripting has been quite usefull.
* Worked with thoughtspot for users of the business intelligence and analytics platform. So that users can quickly search and analyze their data, Without the use of complicated SQL queries or coding. Used thought spot with cloud databases like snowflakes, DBT, databricks.
* Experience in Migration/Clustering/Auto scaling of the Application Servers (Tomcat, WebLogic), Message Broker software RabbitMQ through Chef and AWS
* Managed Ansible Playbooks with Ansible modules, implemented CD automation using Ansible, managing existing servers and automation of build/configuration of new servers
* Worked with Ansible to manage Web Applications, Config Files, Data Base, Commands, Users Mount Points, and Packages. Ansible to assist in building automation policies
* Provided 24/7 technical support to Production environments.

**Technical Skills:**

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| **Operating Systems** | Linux (Red Hat, CENTOS, SUSE, Mint), Ubuntu, Kali, Solaris, DEBAIN, HP-UX, Windows |
| **Build Tools** | Ant/Maven/Gradle |
| **Database Systems** | CSV, S3, Snowflakes, Databrickes, DBT |
| **Configuration Management** | Ansible/Chef |
| **Continuous Integration** | Gitlab, Jenkins, SonarQube, Artifactory |
| **Application Servers** | WebSphere Application Server, Apache Tomcat, JBoss, WebLogic, Nginx |
| **Languages** | YAML, Shell, Ruby, Python, Java |
| **Containerization** | Docker, Kubernetes, Docker Swarm |
| **Version Control Systems** | Git, GitHub, CVS, Subversion, Bitbucket |
| **Cloud Platforms** | AWS, Azure |
| **Monitoring Tools** | Grafana, Cloud Watch |
| **Networking Protocols** | HTTP, HTTPS, SMTP, FTP, VPN, TCP/IP, UDP, IMAP, SSH |
| **Scripting/Language** | Shell Script, Bash/C, YAML, Groovy |

**Professional Experience:**

**Client: Discover Financials, Chicago, IL**

**October 2022 – Till date**

**Role: Lead AWS Devops/Ansible engineer**

**Responsibilities:**

* Worked in the Secure Payments System deploying and maintaing applications in OCP Containers.
* Collaborated with the development team of seven people to integrate Red Hat Open Shift practices into the software development lifecycle.
* Designed and implemented Jenkins Pipelines for automating deploying in respective dev and prod namespaces.
* Conducted in-depth data analysis and exploratory data analysis (EDA) to uncover patterns and insights.
* Applied techniques like dimensionality reduction and feature selection to improve model performance.
* Developed custom actions and workflows to address project-specific requirements.
* Managed environments and dependencies for consistency and reproducibility.
* Supported Creation/Maintaining of Helm Charts as our K8s Management system.
* In Kubernetes when microservice or application is to be added to the containerization process it will need to have a simple jenkins file added to its repository and a new jenkins job created for it.
* Worked on Bitbukket and Github migration to give the project a title that is both precise and description. Included the direct link to the Github repository of the project by giving clickable hyperlinks, for easy access and review the project.
* Experienced in Continuous Integration System which includes automated testing.
* Involved in trident migration of services from non-prod to staging and accordingly to prod environments
* Generated comprehensive reports from SonarQube to track code quality metrics, including maintainability, reliability, and security.
* Designing and implementing for fully automated server build management, monitoring and deployment By Using DevOps Technologies like Puppet.
* Working experience with DevOps practices in application technology including continuous integration and delivery processes using Jenkins, Bamboo, CruiseControl, Ansible, Chef or Puppet.
* In kubernetes when Microservice or application is to be added to the containerization process it will need to have a simple jenkins file added to ir repository and a new jenkins job created for it.
* Configured repositories in Artifactory, including local, remote, and virtual repositories, to optimize artifact caching and distribution.
* Worked with OpenShift platform in managing Docker containers and Kubernetes Clusters
* Implementation of blue-Green deployments using jenkins,Canary deployments using helm/Kubernetes and full automatic ability for rolling releases.
* Acted as SME for Numerous Applications.
* worked on Creating Rundeck jobs for handiling built in Erros.
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, test deploy
* Automated Installation and configuration of Apache , Tomcat servers using Python and supported implementations of Kafka and RabbitMQ message servers running Linux and Windows server Installation, Configuring, Deploying, Troubleshooting, Administration and maintenance of IIS
* Hands-on experience on Ansible and Ansible Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change.
* Implemented a CI/CD pipeline with docker,jenkins and github by virtualizing the services using DOcker for the dev and test environments by achieving needs through configuration automation using containerization.
* Collaborated with data engineers to design data pipelines that transformed and enriched raw IoT data for advanced analytics and reporting.
* Updated Helm charts to allow an optional flag to be set when deploying in the Vagrant development environment to turn on dev mode.
* Led Implementation and acted as primary SME for Octopus Deploy,Including Nuget & Team city integration.
* Used Snowflakes for setting up and managing data warehouses, optimizing performance, and ensuring data integrity.
* Executed multiple types of workflows by using Rundeck
* Experience in using lambda services to maintain servers billing cost by starting and stopping servers as per schedule.
* Worked with RedHat OpenShift Container Platform for Docker and Kubernetes. Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions

**Environment:** AWS, Jenkins,Helm,Bitbucket, Docker, Kubernetes, RabbitMQ,Rundeck,Maven,SME,SonarQube, Artifactory, Terraform, Ansible, GIT, Snowflakes, Shell Scripts, Chef, OpenShift, Linux.

**Client: HCA Healthcare, Nashville, TN**

**October 2018 – September 2022**

**Role: AWS DevOps/Ansible Engineer**

**Responsibilities:**

* Worked on the creation of AWS Cloud infrastructure using Terraform
* Created and maintained AWS Cloud Infrastructure for various external projects as well as inhouse project.
* Worked on Integration of various data sources like databases (MySQL, PostgreSQL), time series databases (InfluxDB), and APIs into Grafana. Configuration of alerting rules and notifications for proactive monitoring of system performance.
* Updated Helm charts to allow an optional flag to be set when deploying in the Vagrant development environment to turn on dev mode.
* Deployed ML models to production environments, ensuring scalability and efficiency for large datasets.
* Created users for employees as per designated roles in the organization.
* Conducted code duplication analysis using SonarQube to identify redundant code blocks and enhance maintainability.
* Set up repository mirroring in Artifactory to synchronize artifacts across different geographic locations, ensuring faster access for global teams.
* Played a key role in automating the deployments on AWS using Github,Terraform and Jenkins.
* Provided consistent environment using Kubernetes for deployment Scaling and load balancing to the application from development through production , easing the code development and development pipleline by Implementing Docker containerization.
* Implemented ETL pipelines in Databricks, extracting data from various sources, transforming it, and loading it into target destinations.
* Worked with the fast pace of Agile Development team building software systems Coordinated with Architects, Systems, Network, Software &QA Engineers, to continuously improve the reliability and efficiency of Build and Deployment processes to support every phase of development including production releases Responsible in understanding of the interdependencies and structure of systems and implement this knowledge to improve the build and release processes which allow rapidly evolving product offerings Improved continuous integration environment, monitored builds, maintained configuration & automated processes Managing Amazon Web Services (AWS) infrastructure with automation and configuration management tools such as Ansible, Puppet, or custom-built.
* Worked on Rundeck to execute workflows of servers.
* Involved in setting up Amazon Linux Instances for frontend API’s and Ubuntu Instances for backend API’s.
* Responsible for maintaining environment setup on the servers, memory management, high availability etc.
* Deployed DevOps culture in automating continuous integration and continuous deployment.
* Worked on the Deployment, Configuration, Monitoring and Maintenance of OpenShift Container Platform
* 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
* Containerized multiple websites on single server for optimal server utilization using docker.
* Involved in setting up RDS Databases and S3 buckets and periodically took backups.
* Experience in writing Bash scripts and writing Cron Jobs for automating Linux OS oriented tasks.
* Worked with OpenShift platform in managing Docker containers and Kubernetes Clusters
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, testdeploy.
* Worked with Groovy to ensure smooth and more efficient release cycles by enabling automation, testing and deployment within these pipelines.
* Experience using Ansible Tower, which provides an easy-to-use dashboard, and role-based access control, so that it's easier to allow individual teams access to use Ansible for their deployments.
* Experience in using lambda services to maintain servers billing cost by starting and stopping servers as per schedule.
* Worked with RedHat OpenShift Container Platform for Docker and Kubernetes. Used Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions
* Served websites over HTTPS using Application Load Balancer in AWS and supplying SSL certificate via ACM in AWS.
* Good knowledge on how to setup and configure Application servers like Apache Tomcat 8.5, and Webservers like Apache and Nginx.
* Monitored network load on the API servers and Databases with the Grafana Dashboards
* Worked with A and CName record for domains hosted in Route 53, godaddy and Bluehost.
* Migrated application hosted in GCP to AWS using Cloud Endure Migration
* Created PEM/PPK files to connect GCP instances via 3rd Party SSH tools like Putty.

**Environment:** AWS, Jenkins, SonarQube Helm, Artifactory, Docker, Kubernetes, Maven, Terraform,Rundeck Groovy, Ansible, GIT, Shell Scripts, Chef, OpenShift, Linux

**Client: Sun Trust Bank, Atlanta, GA**

**Jul 2017 - Sep 2018**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* Structured and deployed AWS cloud infrastructure for various projects.
* Responsible for managing code developed in cloud repository bitbucket.
* Design, installation, configuration and administration of Linux 5,6 and 7 servers and support of OpenShift Enterprise and non-OpenShift support
* Worked with NodeJS server and Apache server required for backend and front-end application as needed.
* Worked with AWS RDS for meeting the database requirements of the applications.
* Implemented cloud services IAAS, PAAS and SaaS which include Openstack, Docker and Openshift
* Scripted Jenkins Pipeline to pull code from bitbucket, build code with maven and deployed code in respective servers.
* Monitored server and database activities by using AWS CloudWatch logs.
* Maintained servers in different availability zones to achieve high availability.
* Created DNS private zone in both prod and non prod and DNS forwarding outbound is setup
* Created Kubernetes Cluster using terraform with Stackdriver Monitoring enabled and private cluster enabled
* Created a node pool with Auto Scaling and Automatic node repair enabled
* Created Multi zonal Kubernetes clusters and deployed workloads and services into the pods
* Deployed Vault and Consul with HA on the Kubernetes Pods having 3 consul nodes and 2 Vault nodes each having a load balancer to route the traffic
* Extensively worked with Jira and Slack for project management and internal team communication
* Worked with Stackdriver creation and usage for monitoring purposes

**Environment:** Jenkins, Openstack, Docker, Openshift, Maven, Terraform, Terragrunt, GKE, gcloud, Jira, Slack, Helm, Linux

**Client: New England IT – Burlington, MA**

**Jan 2016 - Jun 2017**

**Role: AWS DevOps Engineer**

**Responsibilities:**

* Interacted with client teams to understand client deployment requests.
* Worked on RHEL 5, 6 and creating EC2 instances in AWS cloud.
* Setup new environment during migration from V2 to V3 and spun up new instances using AMI's.
* Created Elastic load balancers (ELB's), and wrote cloud formation scripts for setting up new EC2 instances using AMI's.
* Wrote shell script to automate the shredding process of unattached volumes in AWS environment using AWS CLI.
* Worked on continuous integration servers Jenkins, Cloudbees and bamboo.
* Created and configured new jobs in Jenkins, Cloudbess to point to new servers during the V3 migration.
* Establish CI/CD for trunk and branches to support parallel development.
* Installing, configuring and administering Jenkins Continuous Integration tool on Linux machines along with adding/updating plugins such as GIT, Maven, ANT and Chef.
* Installed and configured an automated tool puppet that included the installation and configuration of the puppet master, agent nodes and an admin control workstation.
* Deploying application using Jenkins server and Troubleshoot build and release job failures, work with engineers on resolution.
* Used Jenkins pipelines to drive all microservices builds out to the Docker registry and then deployed to Kubernetes, Created Pods and managed using Kubernetes
* Designed, Installed and Implemented Ansible configuration management system.
* Configuration and Administration of Apache Web Server and SSL Certificates.
* Was instrumental in creating a Disaster Recovery (DR) process and setting up new infrastructure in west region of Amazon Web Services.
* Used Ansible to manage Web applications, Environments configuration Files, Users, Mount points and Packages.
* Automated CI/CD with Jenkins, build-pipeline-plugin, Maven, GIT Set up Jenkins master/slave to distribute builds on salve nodes
* Created a Step-Up-Script to update GoldImage Version from 3.01 to 3.09.
* Systems monitoring and administration of Servers for day-to-day problems, patches, user administration, hardware failure, monitoring log files, backup, doing yum updates, configuration changes and documentation.
* Developed Puppet modules Tomcat, JBOSS, WAS, SOLR, Zookeeper and Beaker Ruby test scripts to test the modules.
* Good in provisioning and deployment tools like Ansible.
* Worked on Continuous Integration in the Development Process
* Worked on Github, and integrated it with Jenkins to build jobs and do the deployments

**Environment:** Splunk, Ruby, Puppet, Shell Scripting, PHP, GIT, Jenkins, Bamboo, Saltstack, JIRA, Web services, Ansible, Open Stack, AWS, VM ware

**Client: Trinity Health, Moorestown, NJ**

**Mar 2014 - Dev 2015**

**Role: Linux System Administrator**

**Responsibilities:**

* Installation, configuration and upgrade of RHEL 5.x, 6.x,7.x, IBM AIX 7.1,8.x, HP UX, VMware 4.x,5.0,5.1,5.5, 6.0, windows 2008 R2, 2012 operating systems.
* Virtualized the servers using the Docker for the test environments and dev-environment needs.
* Configuration Automation using Puppet and Docker Containers.
* Built and Deployed web application server in an Agile continuous integration environment and also automated the whole process.
* Created continuous integration system using SVN, Ant, Jenkins, Puppet full automation
* Integrated Build Process through Jenkins to various SCM tools like GitHub.
* Perform daily system monitoring, verifying the integrity and availability of all hardware, server resources, systems and key processes, reviewing system and application logs, and verifying completion of scheduled jobs such as backups.
* Implemented SCM tools i.e. GIT, Stash Repositories, Source tree, views, and the access control strategies.
* Deploy and monitor scalable infrastructure on Amazon web services (AWS) & configuration management using Ansible.
* Integrated delivery (CI and CD process) using Jenkins and Puppet.
* Installation, Configuration and Administration of Red Hat Linux, SUSE Linux servers.
* Performed Kickstart Installations of the Red Hat Linux servers.
* Building new Virtual Machines in VMware Vsphere Client, Citrix Xen.
* Deploying new Virtual Machines using templates in VMware Vsphere, Citrix Xen.
* Analyzing Business requirements/user problems to determine feasibility of application or design within time and cost constraints. Formulated scope and objectives through fact-finding to develop or modify complex software programming applications or information systems

**Environment:** RHEL/CentOS 5/6, Windows 2003/2008 AD &amp; SCCM, WebSphere, Tomcat, Java/J2EE, CI/CD, Maven, Clear Case/CVS, Jenkins, Shell Scripts.

**Educational Qualification:**

* Master of Business Administration - MBA, Business and Travel from Kuoni New Delhi - 2013
* Bachelor of Arts - BA, Humanity from Guru Nanak Dev University - 2005