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**Suman Goud Lead Cloud/DevOps Engineer**

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**PROFESSIONAL SUMMARY:**

* Overall, **9 years** of experience working in **Information Technology Environment, Change/Configuration, Build and Release Management**. Actively hosted and participated in Change Control, Agile, Production readiness and application release meetings throughout the Application life cycle Management (**ALM**)process.
* Experience in several AWS Services including **EC2, VPC, IAM, S3, RDS, ELB, Route 53, CloudWatch, Cloud Formation Templates, CloudFront, CloudTrail**, **Guard Duty, Macie, AWS CDK, AWS Config, ALB/NLB Load Balancers, AWS inspector** and administering them using AWS Console and AWS Command-line Interface.
* Good experience on version control systems like **Subversion, GIT** and Source code management client tools like **GIT Bash, GIT Hub, GIT GUI**.
* Experience with **Linux/UNIX** environment with shell scripting for Build & Release automation and writing Shell and Python scripts to automate the deployments
* Extensive experience with Continuous Integration Tools (**Jenkins, Bamboo, TeamCity**) and Continuous Deployment practices.
* Hands on experience in Terraform for building, changing, and versioning of Infrastructure and wrote Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* Deployed application which is containerized using **Docker** onto a **Kubernetes** cluster which is managed by Amazon Elastic Container Service for Kubernetes (**EKS**).
* Building/Maintaining Docker container clusters managed by **Kubernetes Linux, Bash, GIT, Docker, AWS Utilized** **Kubernetes and Docker** for the runtime environment of the **CI/CD system** to build, test deploy.
* Managed security groups on AWS, focusing on **high-availability, fault-tolerance**, and auto scaling using **Terraform templates**. Along with Continuous Integration and **Continuous Deployment** with **AWS Lambda and** AWS code pipeline.
* Excelled in developing CD pipeline with **Jenkins, Ant, Maven, Docker, GIT Hub and AWS AMI’s.**
* Wrote **Shell**, **Bash**, **python**, **Perl** and **Ruby** scripts for day-to-day administrative tasks and for managing users.
* Experience in Deploying and monitoring **Microservices**on various platforms like **AWS ECS,** **Kubernetes,** **OpenShift.** Developed **Kubernetes**Pod definitions, Deployments and used Helm Charts to version control complete deployment strategies.
* Experience in configuration management tools such as **Puppe**t and **Ansible**, proficient in writing **Ansible** roles from scratch.
* Experience on Cloud technologies like **AWS, Azure and Google Cloud Platform**.
* Implement, provisioned, and administered AWS services like **EC2, S3, AMI, IAM, EBS, ELB, VPC, Route 53, CloudWatch, Cloud Front, Cloud Formation templates** and troubleshooting on various **Amazon Images**.
* Integrate and implement a complete cloud services framework (**IaaS, PaaS, and SaaS**) and cloud deployment model (private, public, and hybrid).
* Develop proactive monitoring tools using **Nagios, DataDog, AppDynamics** to create dashboards, views, and queries and alerts that provide awareness into critical business processes.
* Experience in Virtualization technologies like **RHEV, VMware, Vagrant.**
* Experience with metrics/monitoring tool like **EFK** stack **(Elasticsearch, Fluentd, Kibana)** for **API** Dashboard.
* Expertise in Installation, Configuration Data Base Servers like **MySQL, MariaDB, PostgreSQL, MongoDB, Oracle DB** on various Linux Distributions.
* Maintained Artifacts in binary repositories using **JFrog** **Artifactory** and pushed new Artifacts by configuring the Jenkins project using **Jenkins Artifactory Plugin.**
* Used **Ansible** to manage Web applications, Environment’s configuration Files, Users, Mount points and Packages.
* Handled on-call rotation to support 24\*7 support for client's infrastructure and applications alerted by **PagerDuty**.
* Good understanding of **Agile** Methodologies (Scrum/Sprint/Iterations) in **Agile SDLC**.

**CORE TECHNICAL SKILLS**

**Operating Systems:** Windows, RedHat, Centos and Ubuntu.

**Source control Tools:** Git, Git Hub, GitLab.

**Build Tools:** ANT, MAVEN, and Gradle.

**CI Tools:** Jenkins, CloudBees Jenkins, Bamboo and Team city.

**Configuration Management Tools:** Ansible, Puppet.

**IAC:** Terraform.

**Scripting and Languages:** Java, C#, C, C++, .Net, Perl, Power shell, SQL, Java/J2EE, Ruby, Python, Shell, Bash.

**Tracking Tools:** Atlassian JIRA, BMC Remedy, ADO.

**Web Servers:** Web Sphere, Apache Tomcat and JBOSS.

**Databases:** Oracle, SQL SERVER, MY SQL, Mongo DB.

**Containerization Tools:** ECS, EKS, Docker Swarm, Kubernetes, OpenShift.

**Cloud Environment:** AWS, Azure and GCP.

**Virtualization Tools:** Virtual Box, RHEV and VMware.

**Monitoring Tools:** Nagios, AppDynamics, Datadog, Splunk, New Relic

**Network Protocols:** TCP/DHCP/IP, DNS, NFS, SAMBA, SSH, SFTP, SNMP

**EDUCATION AND CERTIFICATIONS**

Bachelor of Technology in Electronic and communications at TKR College of Engineering

Master’s in computer information systems at New England College

[RedHat Certified System Administrator](https://red.ht/3k9PuVp) | Credential ID – 180294746

[AWS Certified Solution Architect](https://www.youracclaim.com/badges/61ecd92b-f5f5-4607-8f8a-173b8b544c0f/public_url) – Associate

[Certified Kubernetes Administrator](https://www.youracclaim.com/earner/earned/badge/dcbff86d-fc14-43e7-978a-b9577a2f2829) | Credential ID - LF-3ho8cyk02x

[Microsoft Certified Azure Fundamentals](https://www.youracclaim.com/earner/earned/badge/dcbff86d-fc14-43e7-978a-b9577a2f2829) | Credential ID – H708-1085

**PROFESSIONAL EXPERIENCE**

**Exxon Mobil, TX** July 2019 – Present

Role: Lead Cloud DevOps Engineer

**Responsibilities:**

* Worked on migration from on premise to **AWS** which includes Migrating existing applications, building new servers, deploying applications, setting up automation in new environment, creating **CI/CD pipeline** for Dev and Test environment.
* Utilized CloudWatch to monitor resources such as **EC2, CPU memory, Amazon RDS DB services, Dynamo DB, tables, EBS volumes;** To set alarms for notification or automated actions and to monitor logs for a better understanding and operation of the system.
* Installed, administrate, troubleshoot and resolve issues in OpenShift Container Platform on AWS and On-Prem.
* Integrating **RedHat OpenShift** Satellite. Administrating the **RedHat OpenShift satellite** for package management and subscription management.
* Deployed application which is containerized using **Docker** onto a**Kubernetes** cluster which is managed by Amazon Elastic Container Service for **Kubernetes** (EKS). Configured ‘**Kubectl’** to interact with Kubernetes infrastructure and used AWS Cloud Formation Templates (CFT) to launch a cluster of worker nodes on Amazon EC2 instances.
* Created Dev/Test/Prod environments to run applications on AWS by provisioning Kubernetes clusters on EC2 instances using **Docker**.
* Configured and managed **Elastic Load Balancer (ELB)**with **Auto scaling groups**for high availability and fault tolerance.
* Utilized **Route53**to route traffic to different environments based on the routing policy defined.
* Implemented and maintained the monitoring, alerting of production and corporate servers using**CloudWatch**and used **ELK (Elastic Search, Logstash, Kibana)**for application logs.
* Enabled Developers on-board to EKS and **OpenShift Clusters** and help to understand the flow and components of architecture.
* Wrote **YAML** scripts for **AWS** code deploy to automate deployment process.
* Build Continuous Integration environment and Continuous Delivery using **Jenkins Build** for Dot net application with Continuous Integration stack consisting of **Gitlab, Jenkins CI-CD, Nexus and OpenShift Enterprise.**
* Perform security checks on containers and images using **Twist lock**.
* Installed and Configured Trident on **OpenShift Container Platform** to orchestrate storage on NetApp backends.
* Perform system analysis, troubleshooting and performance tuning of operating systems.
* AWS Cloud Administration, EC2 Instances creation, setting up **AWS VPC, launching AWS** EC2 instances different kind of private and public subnets based on the requirements for each of the applications.
* Worked on implementing **Data warehouse solutions in AWS Redshift**, worked on various projects to migrate data from one database to **AWS Redshift, RDS, ELB, EMR, Dynamo DB and S3**.
* Hands-on experience in **Azure** Cloud Services (PaaS & IaaS), Storage, Web Apps, Active Directory, **Azure** Container Service, VPN Gateway, Content Delivery Management, Traffic Manager, **Azure** Monitoring, OMS, Key Vault, Visual Studio Online (VSO) and SQL **Azure**.
* Deployed Azure IaaS virtual machines (VMs) and Cloud services (PaaS role instances) into secure VNets and subnets.
* Experience in using Azure Media and Content delivery, **Azure Networking, Azure Hybrid integration, Azure Identity and Access Management, Azure Data Factory and Storage**, Azure compute services and Azure Web apps.
* Worked in **Azure DevOps** on **CI/CD** with Azure Repos, Container Registry, MS Build, Maven, Sonar cloud, Kubernetes Service (AKS) and ARO.
* Responsible for Deployment Automation of all **Microservices** to pull image from Private Nexus registry and deploy to OpenShift Cluster.
* Setup Datadog monitoring across different servers and AWS services.
* Configure alerts for performance metrics of the Production servers and applications hosted on OpenShift Container Platform.
* Harden and patch OpenShift Clusters using **OpenShift-Ansible** scripts from Ansible Tower in Pre-Production and Production and virtual servers.
* Configure RedHat Satellite and repository servers to perform RPM installations across the environment.
* Assisted creating MVP on using Ansible Tower and HashiCorp Vault to leverage GitOps model.
* Participation in POC, demos and events assisting customers and solving technical questions for clients.

**Sorint Lab, MA** August 2018 – July2019

**Role:** Sr.Cloud DevOps Engineer

**Responsibilities:**

* Working for Software Configuration Manager Platform team responsible for specialization areas related to Terraform for Cloud Automation.
* Hands on experience with AWS Cloud services like **EKS, EC2, VPC, S3, IAM, Route 53** and Lambda.
* Designed and implemented by configuring Topics in new Kafka cluster in all environment.
* Experience leading solutions development and complex technical deployments across cross-functional teams.
* Created multi branch pipelines and automated build and deploys using **Jenkins** and ansible.
* Automated creation of immutable infrastructure (**EC2, VPC, ELB, Auto Scaling**) using **terraform**.
* Writing shell scripts for Automated Back- ups and **Cron Jobs** using sh and bash.
* Created certificates using **AWS certificate** manager and applied them across ELBs and EC2s.
* Set up both classic and application **load balancers** as per the requirements of the application teams.
* Used shared libraries across multiple Jenkins files to create re-usable codes.
* Integrated build/deploy pipelines with emails/Slack/MS-Teams so that appropriate teams are notified on status.
* Promoted builds across various environments such as sandbox, dev, qa, sat, prod and DR.
* Maintained and managed **Jenkins** in terms of **plugin management**, user access, configuration management.
* Integrated Jenkins with AWS plugin so that the Jenkins slaves are online only when called, resulting in cost savings to the customer.
* Created Database on InfluxDB also worked on Interface, created for Kafka also checked the measurements on Databases
* Installed Kafka manager for consumer lags and for monitoring Kafka Metrics also this has been used for adding topics, Partitions etc.
* Successfully Generated consumer group lags from Kafka using their API
* Created ansible roles and playbooks to provision infrastructure resources in non-prod and prod environments.

**Axle Informatics, MD** June 2017 – July 2018

Role: Sr. Cloud Engineer

**Responsibilities:**

* Dockerized applications and deployed on AWS ECS.
* Experienced with deployment automation of all the microservices to pull the image from the private Docker Registry and deploy to Docker Swarm Cluster using Ansible.
* Assisted in configuring EFK (Elastic Search, Fluentd, Kibana) and maintaining EFK logs.
* Created S3 Buckets in AWS and stored files. Enabled Versioning and security for files stored.
* Used IAM to assign roles, to create and manage AWS users, groups, and permissions to use AWS resources.
* Worked on GIT (GIT Hub) repositories as Distributed Version Control System.
* Extensively worked on integrating GIT into the Continuous Integration (CI) environment along with Jenkins configured the services using modern DevOps tools.
* Defined AWS Security services as virtual firewalls to control the traffic on EC2 instances for a multitude of applications utilizing the Amazon Web Services focusing on high-availability, Fault Tolerance, and auto-scaling.
* Created alarms, monitored, and collected log files on AWS resources using CloudWatch on EC2 instance which generates an email and text notification using Simple Notification Service.
* Designed Terraform templates to create custom-sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates and migration from traditional to cloud environment.
* Involved in using Terraform to migrate legacy and monolithic systems to Amazon Web Services.
* Implemented AWS Code Pipeline and Created Cloud formation JSON templates in Terraform for IaaC.
* Used Docker to containerize Microservices in the cloud and managed clusters using Docker Swarm and Kubernetes. Developed Private cloud system solution on CentOS server using Kubernetes.
* Built end to end CI/CD Pipelines in Jenkins to retrieve code, compile applications, perform tests and push build artifacts to Nexus Artifactory and deploy them on the web servers.
* Automated the build and release process by using shell scripting, Maven and Jenkins in non-production environments and managed the team’s source repository through SVN.
* Monitored the server and network infrastructure using **Nagios**.
* Documented architecture on prem and cloud infrastructure design.
* Worked on creation of custom Docker container images, tagging and pushing the images.

**Finra, Rockville, MD** August2015 -May 2017

Role: Sr. Devops Engineer

**Responsibility:**

* Build servers using **AWS** Launching **EC2**, creating security groups, load balancers in the defined virtual private connection.
* Working with Public Cloud Platform like Amazon Web Services for compute **AWS** **EC2** and Storage **S3**.
* Deploy, monitor, and maintain Amazon **AWS** cloud infrastructure consisting of multiple **EC2** nodes and VMWare Vm's as required in the environment.
* Implemented multi-tier application provisioning in OpenStack cloud, integrating it with **Puppet/Chef**. Adding vSphere to nova compute nodes and Manage and troubleshoot the Nova Compute and Controller Services.
* **Puppet/Chef** installation for infrastructure automation, manifest, ruby, shell scripts and automated infrastructure WAS, Tomcat, Web logic.
* Experience in load balancing and monitoring with **Nagios** and **Splunk**.
* Experience in creating **Docker** containers leveraging existing Linux Containers and AMI's in addition to creating **Docker** containers from scratch.
* Monitored & troubleshoot Network, Linux and Windows servers using **Splunk**.
* Prototype CI/CD system with **GIT Lab** on GKE utilizing **Kubernetes** and **Docker** for the runtime environment for the
* Set up the **Jenkins** configurations, make sure the project teams can switch to the new platform.
* Experience in installation and customization of **splunk** using **Splunk** Power Design
* Extensively worked on **Hudson**, **Jenkins** and Team City for continuous integration and for End to End automation for all build and deployments.
* **Kerberos**: Design and deployment of Kerberos delegation, constrained delegation, troubleshooting Kerberos authentication failures
* Built and Deployed **Java** **script** to a web application server in an **Agile** continuous integration environment and automated the whole process.
* Deployed **J2EE** applications to Application servers in an Agile continuous integration environment and automated the whole process. Build scripts using **ANT** and **MAVEN** build tools in Jenkins, Sonar to move from one environment to other environments.
* Extensive experience in using Build Automation scripting like, Apache **ANT, NANT** and Maven.
* Installed and configured an automated tool **Puppet/Chef** that included the installation and configuration of the **Puppet** master, agent nodes and an admin control workstation
* Experience in Installing, configuring and maintaining apache/tomcat, samba & send mail, and **JBoss** Application Servers.
* Configured the LUNs assigned by the storage administrators, and managed Volumes using Logical Volume Manager (LVM) on Linux.
* Create **Jenkins** pipeline jobs for **Puppet** release process for module deployment, using Kanban agile methodology for **Puppet** development.
* Performed all Linux operating system, disk management and patch management configurations, on Linux instances in **AWS**.
* Kerberos optimization: Working with network team, Integrate Cisco and Riverbed devices in AD for Kerberos traffic optimization to improve upon low latency. SharePoint
* Administered Linux servers for several functions including managing Apache/Tomcat server, Mail server and MySQL databases in both development and production.
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon **EC2** and custom **Ruby**/**Bash** Scripts.
* Automated server deployment with Kickstart and **Chef/Puppet**.
* Coordinate/assist developers with establishing and applying appropriate branching, labeling/naming conventions using GIT source control.

**Kantar Operations** August 2012 - July 2015

Role: Build and Release Engineer

**Responsibilities:**

* Created the **automated build** and **deployment process** for application, re-engineering setup for better user experience, and leading up to building a continuous integration system for all our products.
* Created, tested and deployed an End to End **CI/CD pipeline** for various applications using **Jenkins**as the main Integration server for **Dev, QA, Staging, UAT**and Prod Environments with **Agile** methodology.
* Worked as administrator on **web and application servers** like **WebLogic, Tomcat, Apache, and Nginx**.
* Regular **Build jobs** are initiated using the Continuous Integration tool with **Jenkins**.
* Performed build, deployment & validation of the code into different development environments using **ANT Hill Pro.**Creating user level of access for related **GIT Hub** project directories to the code changes.
* Performed all necessary day-to-day **Subversion/GIT** support for different projects and Used **Artifactory** repository tool for maintaining the Java based release code packages.
* Provided the assistance for the smooth phase of Release for the Emergency and Expedite and Releases by getting the **Director Level Approval** and coordinating with different teams. Expertise in using **TFS**to open bugs, create tasks and user stories, initiate change requests.
* Automated **JAVA** builds using **TFS**by installing Team Foundation Build Extensions. Installed Team Explorer Everywhere plugin for Eclipse users to be able to connect to **TFS server.**
* Implemented a CD pipeline involving **GIT -** **Jenkins** - **Ansible** to complete the Automation from commit to Deployment.
* Setting up **Jenkins master**, adding the necessary plugins and adding more slaves to support scalability and agility.
* Active Directory Migration: Account migrations using **ADMT**.
* Installed packages on remote **Agent less nodes** through **Ansible playbooks** with **Ansible** roles.
* Used file modules in **Ansible playbooks** to copy / remove / modify the files on agent fewer remote servers from **Ansible control server.**
* Worked on playbooks for **Ansible** in **YAML** scripting. Downloaded and managed **Ansible** roles from **Ansible Galaxy** to automate the infrastructure.
* Written **Python scripts** to apply the Integration label to all the files which needs manual labelling of files.
* Experience in **migration** of consumer data from **one production server** to another **production server** over the network with the help of **python scripts.**
* Owner of **Jenkins, GIT Hub** **Artifactory** and all internal build systems for the core development team on an enterprise-level Java-based cloud orchestration/automation tool.
* Utilized **Kubernetes** and **Docker** for the runtime environment of the **CI/CD** system to build, test deploy.
* worked on **Docker** and **Kubernetes** on cloud providers, from helping developers build and containerize their application (**CI/CD)** to deploying either on public or private cloud.
* Virtualized the servers using the **Docke**r for the test environments and dev-environment needs and verified those environments in **Docker** Containers for Sanity tests before upgrading to production environment.
* Worked on creating **Docker** containers leveraging existing **Linux Containers** and **AMI's** in addition to creating **Docker containers** from **scratch.**
* Created the **Docker file** and built various containers using **Docker engine** and **Docker Machine** environments and set up the automated build on **Docker HUB.**
* Defined and created usable and customer friendly, intuitive interfaces to the **JIRA** tool in a fast-paced evolving environment.
* Implemented new **JIRA** workflows for the **QA** teams and worked on Splitting **JIRA** server's configuration. Managed **JIRA** users and created workflows, issues types, fields in production.
* Worked closely with the team to review code for compatibility issues, resolve issues as they arise, and implement deployment processes and improvements on a continuous basis.
* Installed, administrated Monitoring and visualization tools like **Zabbix, Kibana** and monitor the systems/services health and to generate the reports, raise incidents when critical alerts triggered as monitoring solution.
* Gathered all the **stakeholder approvals**, necessary signoffs while acting as a release manager for two development teams. Installed and configured the **DHCP server for giving IP** leases to the production servers.
* Managed RedHat Linux user accounts, directories, groups, and file permissions and Installed packages using **rpm and yum**.