**Laxmi Kanth**

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**Summary:**

* Around 10+ Years of experience in the IT industry comprising of Software Configuration Management (SCM) and Linux Systems Administration.
* Exposure in all aspects of Software Development Life Cycle (SDLC) such as Planning, Analysis, design, Implementation, Testing & Maintenance of Agile Programming methodologies with specific focus on build and release of quality software.
* Experience in Administration/Maintenance of Source Control Management Systems such as Git, Sub Version (SVN). Created tags and branches, fixed merge issues and administered software repositories.
* Experience in using the build tools like MAVEN and ANT for building deployable artifacts such as WAR & EAR from source code.
* Created repositories in GIT using GIT bash. Worked on Commits, pull, push, branch creation, merges, and clone.
* Extensively worked on continuous delivery framework using Ansible, ANT and Maven in organizational environments.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, Stack monitoring using Ansible playbooks and has Integrated Ansible and Jenkins.
* Implementation of DevOps best practices for AI applications developed in Python.
* Created CI/ CD pipeline in the Jenkins and ran the build by integrating with GitHub repository by using Ansible build and deploy scripts.Created CI/ CD processes, pull request policies, and pipelines to support dev/test needs.
* Create and Maintain Subversion Branching, Merging and Tagging across each production releases and perform builds using Jenkins Continuous Integration using maven Build scripts.
* Worked on "Continuous Delivery" project, streamlining Dev workflow, integrating automated QA validation, and delivering standardized releases based on Docker to Operations for deployment.
* Worked on Docker container snapshots, attaching to a running container, removing images, managing director structures, and managing containers in AWS ACS.
* Experience in AWS Identity and Access Management (IAM) such as creating users, groups, organizing IAM users into groups, assigning roles to groups.
* Experience with various programming languages such as Java (JEE), Post Hypertext Preprocessor (PHP), Python& Perl.
* Experience of using Amazon services EC2, S3, Elastic Cache Service, RDS, Elastic Load Balancing, SQS, and other services in the AWS cloud infrastructure such as IAAS, SAAS and PAAS.
* Experienced in querying RDBMS such as Oracle, MY SQL and SQL Server by using SQL for data integrity.
* Experienced AD migration checklist for Active Directory migration to newly created Forest/Domain.
* Managed and Monitored using tools CloudWatch, Splunk & Nagios for Resource/Network/Log Trace Monitoring.
* Knowledge of using Routed Protocols: FTP, SFTP, SSH, HTTP, HTTPS, DNS and Connect direct.
* Installation, Configuration, Recovery, Maintenance and Support of Linux Servers.
* Coordinate different teams across the globe to deploy different builds to different environments on parallel development for multiple projects.
* Highly organized, independent and a quick learner and able to multi-task to accomplish projects.
* Cloud: AWS
* Configuration Management: Ansible
* Continuous Integration: Jenkins
* Build Tools: Maven
* Web Server: Apache, Tomcat & Jboss
* Operating System: Linux, Red Hat Linux, CentOS, Windows XP/2007, Windows Server 2000, 2003,2008 and 2012 & Ubuntu
* Scripting Language: Python, Bash & Groovy

**Experience:**

**Qualcomm, San Diego, CA** **Oct 2019 - current**

**Role: DevOps Engineer**

**Responsibilities:**

* Created, configured, and monitored multiple servers using AWS for deployment and maintained a farm of AWS solution using EC2 instances, ELBs, S3, Auto Scaling. Developed Cloud Formation templates to launch VPC`s and instances in the AWS cloud. Managed the AWS instances across multiple environments using CloudFormation/Terraform scripts.
* Designed EC2 instance architecture to meet high availability application architecture and security parameters and Created S3 buckets and managing policies for S3 buckets and utilized S3 bucket and Glacier for storage and backup on AWS, ACS.
* Delivered Solutions to improve Cloud architecture, deployment for AWS Private and Public Cloud. Managed multiple AWS accounts with multiple VPC`s for both prod and non-prod where primary objectives included automation, integration,and cost control.
* Implemented a continuous Delivery pipeline with Docker, Jenkins, and GitHub. When a new GitHub branch is started, Jenkins automatically builds new Docker container from it.
* Built and launched of Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and configuring the instances with respect to the project.
* Worked on Micro-Service Platform using Elastic Beanstalk, Configured the EC2, RDS, ELB and Auto-scaling group on Elastic Beanstalk.
* Maintenance and Vulnerability Management of Hybrid infrastructure and CI/CD using IAC and Ansible.
* Experience in creation and deployment of a tool to automate branch and project creation in GIT using Groovy in Jenkins file and automating with ansible.
* Strong expertise on **DevOps** concepts like **Continuous Integration (CI), Continuous delivery (CD)** and **Infrastructure as Code (IAC), Cloud Computing** etc.
* Extensive experience in developing and maintaining build, deployment scripts for test, Staging and Production environments using  Maven and Shell Scripts.
* Maintained build related scripts developed in shell for Maven builds. Created and modified build configuration files including POM.xml.
* Deployed the build artifacts into environments like QA, UAT and production according to the build life cycle.
* Used Amazon S3 to backup databases instances periodically to save snapshots of data.
* Experience in PAAS adoption and Cloud Native development
* Involved in designing and deploying applications utilizing almost all the AWS stack (Including EC2, VPC, ECS, Code Deploy,Route53, S3, Dynamo DB, SNS, SQS, PASS, Redis, CloudWatch, Lambda, Certification Manger and IAM) focusing on high-availability, fault tolerance, and auto-scaling in AWS CloudFormation.
* Write terraform scripts for CloudWatch Alerts.
* Creating Storage Pool and Stripping of Disk for Azure Virtual Machines. Backup, Configure and Restore Azure Virtual Machine using Azure Backup.
* Used the Java API to load the data into Cassandra Clusters.
* Excellent understanding and knowledge of NOSQL databases like Mongo dB and **Cassandra**.
* Designed, developed data integration programs in a Hadoop environment with NoSQL data store Cassandra for data access and analysis.
* Configure Window Failover Cluster by creating Quorum for File sharing in Azure Cloud and PAAS.
* Proficient with container systems like Docker and container orchestration like EC2 Container Service, ACS, AKS, Kubernetes(K8S), worked with IAC and Terraform.
* Created various scripts in Python, Puppet, and Ruby for automation of various build processes.
* Hands on K8S - Solving problems such as pod eviction, Error code - 137, OOM, Auto scaling with HPA.
* Migrated existing VMs from on premise to AWS and Azure using various tools including but not limited to AWS Data Migration Services, AWS Schema Conversion Tool, Azure Site Recovery, Zerto and VMWare tools.
* Responsible for implementing monitoring solutions in Ansible, Terraform, snowflake, Docker, Circle CI and Jenkins.
* Used PAAS adoption for Cloud Formation template for creating initial infrastructure like IAM roles and policies, S3 buckets and bucket configurations.
* Worked in container-based technologies like Docker, Kubernetes and Openshift.
* Experience with container-based deployments using Docker, Jenkins, Circle CI working with Docker images, Docker Hub and Docker-registries and Kubernetes(K8S).
* Jenkins is used as a continuous integration tool for Puppet automation of daily process.
* Developed Cloud solutions using IaaS (Infrastructure as a Service) and PaaS (Platform as a Services).
* Initiating alarms in CloudWatch service for monitoring the server's performance, CPU Utilization, disk usage etc. to take recommended actions for better performance.
* Built backend REST API with NodeJS, ExpressJS and also Implemented modules into NodeJS to integrate with designs and requirement.
* Mainly involved in development and maintenance of the website using Python, HTML5, CSS, AJAX, J-Query, DOJO, JavaScript, and Angular JS.
* Experience in ZOOKEEPER, GROOVY, TEST DRIVEN DEVELOPMENT, API Gateways, Groovy, Continuous Integration, Monitoring, Change Management Processes and Procedures.
* Responsible for creating strategies to streamline all the test and release processes across the teams using CICD tools like Jenkins, Jira, Git, Artifactory, Python, BASH.
* Developed microservice on boarding tools leveraging Python scripting and Jenkins allowing for easy creation and maintenance of build jobs and Kubernetes deploy and services.
* Worked with development, testing, deployment, infrastructure and project teams to ensure continuous operation of build and test systems.
* Experience installing and developing on ELK.
* Worked on different ETL processes for the data ingestion module.
* Maintain Elasticsearch-1.4.3 to support Sugar CRM Data Base.
* Managed all bugs and changes into a production environment using Jira tracking tool.
* Monitoring AWS instances regularly using CloudWatch. Created alarms and triggers using CloudWatch based on thresholds, Utilized New Relic for monitoring.
* Documented the entire build and release engineering process and provided on call support.

**DXC Technology, Plano, TX** **Sep 2017- Oct 2019**

**Role: DevOps Engineer**

**Responsibilities:**

* Implementing multi-tier application provisioning in AWS cloud, integrating with Jenkins, Nexus as antifactory.
* Implemented a Continuous Integration and Continuous Delivery (CI/CD) pipeline with IAC, Jenkins and GitHub.
* Worked with Jenkins setting up CI for new branches, build automation, plug-in management and securing Jenkins and setting up master.
* Set up Jenkins 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
* Involved in Installing and configuring GIT distributed version control tool, written pre-commit, post-commit, post-receive hooks in GIT and responsible for merging, tagging and conflict resolution in GIT.
* Integrated GIT into Jenkins to automate the code check-out process.
* Maintained the GIT Repositories, different branching & merging strategies, views, and the access control strategies.
* Automated the bundling process and reduced all the manual intervention needed and merged that to the Jenkins job
* Extracted Transform and Load data from Sources Systems to Azure Data Storage services using a combination of Azure Data Factory, T-SQL, Spark SQL and U-SQL Azure Data Lake Analytics . Data Ingestion to one or more Azure Services - (Azure Data Lake, Azure Storage, React JS, Azure SQL, Azure DW) and processing the data in In Azure Databricks.
* Migration of on-premise data (Oracle/ SQL Server/ DB2/ MongoDB) to Azure Data Lake Store (ADLS) using Azure Data Factory (ADF V1/V2).
* Deploy and monitorACS, AWS resources (EC2, VPC, ELB, S3, RDS) using Chef and Terraform
* Experience in AWS (Amazon Web Services) including deploying new server instances through automation with Jenkins.
* Involved in setting custom alarm’s using Cloud watch, created dashboards in Splunk applications monitor.
* Troubleshooting any build issue with ELK and work towards the solution
* Using Ansible to Setup/teardown of ELK stack (ElasticSearch, Logstash, Kibana)
* Configuring the Docker containers and creating Docker files for various applications. Automated the weekly deployments utilizing CI tool Jenkins.
* Experience implementing Industrial **IoT** solutions and sensor networks
* Steer development and industrialization of IoT Solutions
* Working knowledge on IoT Strategy, standards, protocols
* Worked in container-based technologies like snowflake,Docker, Kubernetes and Openshift
* 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(K8S).
* Hands on K8S - Solving problems such as pod eviction, Error code - 137, Health check (Liveness, readiness), Init Containers, Cron Job, Job
* Experience in setting up the build and deployment automation for Terraform scripts using Jenkins.
* Built Jenkins jobs to create AWS infrastructure from GitHub repos containing terraform code.
* Developed shell scripts for collection and summarize server information for server monitoring and other housekeeping tasks such as file transfers.
* Participated in integration of applications with existing APIs.
* Responsible for creating and maintaining API gateways using APIGEE or Amazon API Gateway.
* Developed build scripts using MAVEN as the build tools for the creation of build artifacts like war or ear files.
* Defined dependencies and plugins in Maven pom.xml for various activities and integrated Maven with GIT to manage and deploy project related tags.
* Scheduling the patches for server and systems for a user’s to keep them up to date by job scheduling process.
* Proactive maintenance on systems by timely upgrading Patches to the systems and Scheduling of batch jobs and Cron jobs.
* Administrated JIRA, and Maintained documentation using Confluence.
* Used tracking tool JIRA and triaged the issues and maintained bugs using JIRA tool.
* Documented, performed, and validated test cases based on client requirements.

**Vanguard, Charlotte, NC**  **Aug 2013 - Sep 2017**

**Role: DevOps Engineer**

**Responsibilities:**

* Worked as Infrastructure Developer on Data migration project where we migrated data from DB2 to AWS S3 buckets.
* Extensively worked through the full SDLC process from requirements, design, testing and deployment.
* Wrote Cloud Formation templates for launching EC2 instances, RDS clusters , AKS, ACS. EKS and deployed to Bit Bucket using Jenkins CI/CD, PAAS.
* Wrote Cloud Formation templates in Python and converted them into Json which is accepted by AWS.
* Experience with Design, code, and debug operations, reporting, data analysis and web applications utilizing Python.
* Built continuous Integration/ Continuous Deployment pipeline using Git, Jenkins, Maven and Nexus repo, SonarQube and Ansible. Integrated SonarQube with Jenkins for static code analysis.
* Developed Ansible playbooks to configure, deploy and maintain software components to the existing or new infrastructure.
* Built and launched of Amazon EC2 Cloud Instances using Amazon Web Services (Linux/ Ubuntu) and configuring the instances with respect to the project.
* Experience in Amazon AWS Cloud Administration which includes services like: EC2, S3. For application or backend service worked on Lambda.
* Implemented Docker containers to create images of the applications and dynamically provision slaves to Jenkins CI/CD pipelines.
* Worked on building Docker images and spinning up Docker Containers in ACS.
* Implemented PAAS adoption, AWS Code Pipeline and Created Cloud formation JSON templates in Terraform for infrastructure as code.
* Developed Python and Shell scripts for automation of the build and release process.
* Utilize Windows Server Update Services to manage and deploy software patches.
* Created PowerShell scripts to constantly monitor the health of the Exchange messaging infrastructure and notify teammates on event of a problem.
* Established connectivity between application and MySQL Database with connectivity tests. (By RDS endpoints).
* Created custom Ansible modules for finding facts about cloud watch alarms and tracking actions to pause or un-pause those alarm during building.
* Involved in setting custom alarm’s using Cloud watch, created dashboards in Splunk applications monitor.
* Worked closely with Project Managers to understand code/configuration of a release scope and confirm a release was successful.
* Documenting the projects data which will be helpful for the upcoming team members to understand and for audit purpose.
* Used JIRA for creating bug tickets, storyboarding & pulling reports from dashboard. Accomplished the task before the iterations and help the team to achieve their goals.

**Signet Jewelers, Akron, OH** **May 2011 - July 2013**

**Role: DevOps/AWS Engineer**

**Responsibilities:**

* Worked on AWS instances spanning across Dev, Test and Pre-Production and Cloud Automation through Open Source DevOps tools like Ansible, Jenkins & Docker.
* Monitored ECS, EC2 instances, on-site hosts and servers on CPU utilization, disk space and created custom metrics for memory metrics using CloudWatch and supported different teams.
* Configured Elastic Load Balancer (ELB) Including high availability of ELB using various subnets in various availability zones, configured security settings and health checks.
* Created Cloud Watch alerts for instances and using them in Auto scaling launch configurations using Jenkins AWS Code Deploy plug in to deploy to AWS.
* Created repositories in GIT using GIT bash. Worked on Commits, pull, push, branch creation and merges.
* Involved in developing custom scripts using Python which act as backend for the Ansible scripts to get deployed in the client hosts through Infrared.
* Automated the Applications and MySQL container deployment in Docker using Python and monitoring of these containers using Nagios.
* Developed scripts with Windows PowerShell to automatically configure network settings and vmkernel ports for ESXi servers.
* Installed and worked with Docker for convenient environment setup for building and development.
* Deployed various J2EE application (EAR, WAR, JAR) on WebLogic and JBoss Application servers.
* Witten Ansible playbooks for WebSphere, Jenkins, Tomcat, JBoss and deployment automation. Maintained and editing Python scripts for application deployment automation.
* AWS EC2, ACS and Cloud watch services. CI/CD pipeline management through Jenkins. Automation of manual tasks using Shell scripting.
* Created quality gates in SonarQube dashboard and enforced in the pipelines to fail the builds when conditions not met.
* Implemented Authentication and Authorized flow (SAML) using cloud IaaS platform.
* Worked on AWS CloudWatch and Nagios for monitoring the application infrastructure and used AWS email services for notifying.
* Integrated AWS DynamoDB using AWS Lambda to store the value data and backup the DynamoDB streams.
* Pulled data using SQL and used raw data using Excel to for analysis and reporting purposes.
* Maintained JIRA for tracking and updating project defects and tasks ensuring the successful completion of tasks in a sprint.
* Involved in all phases of Software development life cycle (SDLC) and experienced with fast paced Agile methodologies.

**Tech Mahindra, Hyderabad, India** **Jun 2009 - April 2010**

**Role: Linux Administrator**

**Responsibilities:**

* Installation, administration, configuration of RHEL 5/6 including package management, patch management, regular system administration tasks.
* Install Red hat enterprise Linux 5.4, RHEL 5/6, SUSE 10/11, Ubuntu, CentOS on HP and IBM servers, creating partitions on the EVA 4400 using Linux volume Manager (LVM) to create disk space.
* Manage Virtual Machines, Installing VMware Tools, Creating Templates, Cloning, Deploy Virtual Machines using Templates, Converting Physical to Virtual Machines (P2V).
* Experience on **CentOS** and **RHEL 4/5/6 implementation** Administration, Installation & Maintenance.
* Working with developers to load software onto UNIX servers and debugging Scripts.
* Performed package and patching management and debugging in all flavors of UNIX& Linux.
* Troubleshooting and analysis of hardware and failures for various Solaris servers.
* Perform daily maintenance routines on Linux servers, monitoring system access, managing file space and tuning the system for optimum performance.
* Monitored server and application performance & tuning via various stat commands (vmstat, nfsstat, iostat) and tuned I/O, memory.
* Administered security, users, disks, Groups administration, File Sharing Permissions, daily backup and restore operations, networking service, performance, and resource monitoring.
* Installed and Administered VMware ESX 3.5 in multi-cluster environment with 8 physical nodes in each cluster.
* Installed and maintained several Linux and Windows servers on virtual environment.
* Created users on Active Directory, synched the users on JIRA and assigned groups and spaces.
* Created events, email notification schemes and assigned project roles on JIRA.
* Network trouble shooting using 'netstat', 'ifconfig' and Worked closely with Vendors on Hardware Problems, software fixes.
* Administration of NFS, NIS, DNS, Samba and Send mail servers.
* Respond to all UNIX / LINUX systems problems 24x7 as a part of on call rotation and resolving them on a timely basis.