



Jeevan

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Summary:

- Devops Engineer with 8 plus years of expertise on Linux System Administration, Server infrastructure development & CI/CD pipeline with respect to On-premise, AWS Cloud environments.
- Migrated and resettled the applications and server instances from on-premises environment to AWS cloud.
- Provisioned servers & developed infrastructure for clients on AWS (Amazon Web Services) Cloud and implemented multi-tier Virtual Private Clouds (VPC) based on the application requirements.
- Setup EC2 instances, S3, Route53, Load Balancing, SNS, SQS & Cloud Trail.
- Worked on Git/GitHub/Bitbucket for the source code and feature release management.
- Worked on Agile/Scrum/Kanban/Waterfall methodologies for developing several applications.
- Involved in resolving incident tickets and change management using JIRA.
- Performed documentation using Confluence.
- Created Docker images and orchestrated multiple containers using Kubernetes.
- Worked on CI (Continuous Integration) & CD (Continuous Deployment) pipelines using Jenkins/Bamboo
- Deployed feature releases and patches for Java, node JS and AngularJS applications.
- worked on Spring Frameworks (Spring IOC, Spring Boot, Spring Cloud) and using third party libraries
- Developed Restful Micro Services using Spring Rest and MVC, for OSS services.
- Developed Python scripts to put nexus backup to the S3 Buckets using boto3
- Performed Proof of Concepts on **Splunk**, **ELK Stack**, and Elastic Cloud Enterprise.
- Configured Jenkins-Sonatype nexus plug-in to upload the Nuget packages on to Nexus after the build is success.
- Performed Proof of Concept [POC] for Ansible and Puppet.
- Developed and configured infrastructure with provisioning tools like Puppet & Ansible.
- Managed Ansible Playbooks with Ansible roles, group variables and host inventory files.
- Standardized the EKS, trained and supported the application teams to move their applications from on-premises to the highly scalable and secured containerized cloud environments.
- Deployed Elastic Cloud Enterprise on the AWS with the help of custom-written Terraform, Ansible and Shell scripts.
- Deployed open-source ELK stack on the EC2 with Auto Scaling groups using Terraform and Ansible.
- Deployed open-source ELK stack on the EKS Cluster with the help of Helm Charts.
- Created Puppet manifests to configure infrastructure using Puppet Enterprise.
- Knowledge on Scripting languages like Python, Bash, PowerShell and Unix.
- Developing Mule ESB projects for the services with synchronous and asynchronous mule flows.
- Developed Web application APIs and Java based applications on REST/SOAP style.
- Performed database analysis with Oracle SQL, MySQL and NoSQL.
- Experience in Implementing Enterprise Integration architecture using **Azure Service Bus**, **AppService**, **Active Directory**, Storage, hybrid connection manager, active directory authentication for **azure SQL** server and other offerings by **azure**.
- Experience with **Azure service fabric** to build and manage scalable and reliable applications composed of microservices that run at high density on a shared pool of machines.
- Experience in **Azure services beyond basic IaaS functionality**.
- Experience with **Azure Resource Manager (ARM)** to deploy, update, or delete all the resources for your

solution in a single, coordinated operation.

- Involved on migrating SQL Server databases to **SQL Azure Database** using **SQL Azure Migration Wizard** and used **Python API** to upload agent logs into **Azure blob storage**.
- Had very strong exposure using ansible automation in replacing the different components of **OpenShift** like ECTD, MASTER, APP, INFRA, Gluster.
- Experience in **OpenShift** Platform, support pushing their docker images into the registry, support creating BuildConfig and DeploymentConfig Files, creating services and routes
- Utilized Nexus for code builds on-premises cloud and J-Frog Artifactory for storing builds on multi-cloud and hybrid environments.
- Gathered Formal Software Specifications and wrote use-cases, UML and class diagrams for various applications.
- Performed OS hardening tasks, secured networks by using IP tables/Dynamic firewall, monitored TCP/IP packets on RHEL 6, Windows server and RHEL 7 systems.
- Performed Certificate to Operate testing for various OS.

Technical Skills:

Build Tools	Ant, Maven, Gradle
ConfigurationManagement Tools	Chef, Puppet, Terraform, Ansible,Salt Stack,AgroCD
Programming/scripting Languages	Java, PHP, Python, Unix, shell, Ruby, Scala, .NET.
J2EE/Microservices	Spring, Spring Boot, Hibernate
Monitoring Tools	Nagios, App dynamics, Splunk, ELK, CloudWatch.
CI/CD Tools	Jenkins, Bamboo, Code ship, Visual studio.
Version Control Tools	Subversion, GIT, Tortoise SVN, Visual SVN, Bitbucket.
Web/App Servers	Apache, Tomcat, JBoss, IIS, HIS, WebSphere Application Server.
AWS Services	EC2, S3, RDS, EBS, VPC, IAM, ELB, NACL, SQS, SNS, SES
Databases	MySQL, MS Access, Oracle, DB2, NoSQL (MongoDB, DynamoDB).
Tools/IDE	Putty, VMware, Eclipse IDE, Android Studio, SVN.
Bug Tracking Tools	JIRA, ServiceNow, Junit, Bugzilla, Remedy, Clear Quest.
Container orchestration	Docker,Kubernetes
Cloud Technologies	AWS (Amazon Web Services), Microsoft Azure,Open shift.
Operating Systems	Windows NT/2000/2003/XP/VISTA/7/8/10, Mac, Ubuntu, Linux (Red Hat).
Other Technologies	Mule4 , Nexus, Dw 2.0

Professional Experience:

Western Union, Denver, CO

May 2019 - Current

Devops Engineer

Responsibilities:

- Converted **AWS Cloud** Formation templates to the Terraform templates and integrated with wrapper tool like Terragrunt to make the code more re-usable across various platforms.
- Automated Infrastructure-as-a-code deployments with **CJOC Jenkins** and **GitLab**.
- Deployed Open Policy Agent for Terraform and EKS based deployments and wrote policies from scratch to implement the best security standards.
- Monitored and visualized VPC Flow Logs, Infrastructure Logs, Cross Account EKS and CloudWatch logs using the ELK stack.
- Moved dozens of applications from Splunk to ELK stack for better cost optimization.
- Integrated CloudTrail with CloudWatch and set alarms and **SNS** notifications for important events.
- Implemented Enterprise Integration architecture using **Azure Service Bus**, **AppService**, **Active Directory**, Storage, hybrid connection manager, active directory authentication for **azure SQL** server and other offerings by **azure**.
- Used **Azure service fabric** to build and manage scalable and reliable applications composed of microservices that run at high density on a shared pool of machines.
- Ensured in **Azure services beyond basic IaaS functionality** and Used **Azure Resource Manager (ARM)** to deploy, update, or delete all the resources for your solution in a single, coordinated operation.
- Involved on migrating SQL Server databases to **SQL Azure Database** using **SQL Azure Migration Wizard** and used **Python API** to upload agent logs into **Azure blob storage**.
- Written **Ansible Playbooks** with **Python SSH** as the Wrapper to **Manage Configurations** of **Azure Nodes** and Test Playbooks on **Azure instances** using **Python SDK** and Automated various infrastructure activities like continuous deployment, application server setup, stack monitoring using **Ansible playbooks**.
- Created inventory, job templates and scheduling jobs using **Ansible Tower**. Downloaded and managed **Ansible roles** from **Ansible Galaxy** to automate the infrastructure.
- Created **Ansible Playbooks** to provision Apache Web servers, Tomcat servers, Nginx, Apache Spark and other applications.
- Setup Continuous Delivery pipeline using **Ansible playbooks**. This primarily consists of a **Jenkins** to run packages and various supporting software components such as **Maven**.
- Worked in all areas of **Jenkins** setting up CI for new branches, build automation, plugin management and securing **Jenkins** and setting up master/slave configurations.
- Developed Docker images to support Development and Testing Teams and their pipeline and orchestrated Docker images and Containers using **Kubernetes** by creating whole master and node.
- Used Integration of Mule ESB system while utilizing AnypointMQ, HTTP, File system and SFTP transports. Deployed application in UNIX and to connect to see logs for fixing UAT/Production defects
- Deploying windows **Kubernetes** (K8s) cluster with Azure Container Service (ACS) from Azure CLI and Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test and **Octopus Deploy**.
- Responsible for Installing, setup and Configuring **Apache Kafka** and Apache Zookeeper.
- Used Kafka to collect Website activity and Stream processing.
- Implemented development and analysis in migrating data to **MongoDB** and other document databases like **CassandraDB**, **CosmosDB** for processing of terabytes and petabytes of data in JSON format.
- Implemented and improved Jenkins **CICD** shared libraries for **Maven**, **Nodejs**, **Unit Tests**, **Xray**, **HP Fortify** using **Jenkins DSL** and **Groovy** programming. Wrote custom Jenkins files to call different stages and build components of shared libraries to help engineers reduce the time of build and deployment.
- Worked with **Docker** for convenient environment setup for development and testing. Installed Docker Registry for local upload and download of **Docker images** and even from **Docker hub**.

- **Implemented** Docker -maven-plugin in Maven pom.xml files to build Docker images for all microservices and later used Docker file to build the Docker images from the Java jar files.
- Implemented a production ready, load balanced, highly available, fault tolerant, auto scaling **Azure** infrastructure and Docker container **orchestration**.
- Created repositories, branches, tags in **Git** and assist the developers to fix merging issues and to implement the parallel development process.
- Experienced in creating custom Build & Deployment automation solutions in scripting languages including **Python, Shell, UNIX shell, Ruby, Php, Perl and PowerShell**. I have worked and administered artifact tools including Nexus and Artifactory.
- Writing bash script for customization of multi-platform deployment process (means creating environment specific folders, and deleting unrelated configuration files that are meant for other environments before server startup)
- Creating and **branching** and **merging** strategy with multiple branches and used **Git** as source code management repository to keep track of version changes.
- Extensively worked with Source code repositories like Bitbucket for flexible deployments, creating CI/CD pipelines and made use of large file storage it has to offer
- Designed and developed the End Points (Controllers), Business Layer, DAO Layer using Hibernate/JDBC template, using Spring IOC (Dependency Injection).
- Used Spring AOP Module to implement logging in the application to know the application status.
- Developed a **Terraform** plugins using **Golang** to manage infrastructure which improved the usability of our storefront service.
- Configured **JIRA** workflows according to the needs to the CM team and integrated the project management features of with the build and release process.
- Created additional **Docker Slave Nodes** for **Jenkins**, using custom **Docker Images**, and pulled them to ECR and monitored using **Prometheus**. Worked on all major components of Docker like, Docker Daemon, Hub, Images, Registry, and Docker Swarm.
- Used **Prometheus** as monitoring tool and **Grafana** for analysis & visualization. For **Tracing and troubleshooting** the microservice requests using **Zipkins** and **spring cloud sleuth**.
- Installed Red Hat EL 4.x, 5.x using Kickstart and PXE on HP DL380 G3(Linux). Performed OS installations, OS Upgrades, & Server Patching by configuring **PXE & DHCP** server using **Kickstart & Jumpstart** scripts on **Red Hat Linux** 5.x, 6.x & 7.x.
- Performing data analytics using **Redshift** under the guidance of various Business Intelligence tools such as Qlik view, Looker, Datameer etc. We had monitored the data pipelines using **Apache Kafka** and **Matillion ETL**.

Environment: AWS, Azure, Kubernetes, Jenkins, Ansible, Web logic, Nexus, JIRA, Ansible, Oracle, Terraform, Golang, Python, Maven, Java, Linux, Apache TOMCAT, ELK, GIT, Bit Bucket, LDAP, MS Share point, XML, Fedora, Windows, Splunk, Bash, PowerShell, Perl Scripts, Shell Scripts, Docker, Mule4 , Nexus

Axxess, Dallas, TX

April 2017 - April 2019

Devops Engineer

Responsibilities:

- Upgraded infrastructure for high availability and resiliency.
- Developed Python web applications using Django and Flask frameworks.
- Performed LAMP setup on RHEL with configuration management tool Ansible.
- Researched and implemented Docker and Kubernetes proof of concept.

- Create develop and test environments of different applications by provisioning Kubernetes clusters on AWS using Docker
- Built Enterprise infrastructure and application environment using saltstack automating infrastructure and building a framework for event driven infrastructure handling management using salt stack with integration of cloud platform with github integration.
- Refactored and improved self-service internal tools in public AWS and private VMWare clouds with PowerShell, C# and JavaScript.
- Collaborated with software, infrastructure, application and other engineers to design and implement solutions and troubleshoot Linux and Windows infrastructure and deployment pipeline.
- Created, tested and deployed an End-to-End CI/CD pipeline for various applications using Jenkins as the integration server for Dev, QA, Staging, UAT and Prod Environments with Agile methodology.
- Configured VPC and subnets using the knowledge of Cloud Formation for various applications.
- Designed and deployed AWS solutions using E2C, S3, RDS, EBS, IAM Elastic Load Balancer, & Auto scaling groups.
- Installed the Splunk server and configured AWS for Splunk add-on to receive logs.
- Created Ansible playbooks and setup systems to a desired State with the help of Ansible to create configuration files to manage hosts.
- Used YAML Ansible playbooks to launch AWS instances and manage the web applications, configuration files, mount points and packages.
- Worked on Maven to create artifacts from source code and deploy them in Nexus central repository for internal deployments.
- Integrated Kubernetes with network, storage, and security to provide comprehensive infrastructure and orchestrated container across multiple hosts.
- Utilized kubernetes and docker for the runtime environment of the CI/CD system to build, test deploy
- Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker. Utilized Kubernetes and Docker for the runtime environment of the CI/CD system to build, test deploy.
- Managed services using the Docker Engine for the test and dev environment needs.
- Implemented Docker -maven-plugin in Maven pom.xml files to build Docker images for all microservices and later used Docker file to build the Docker images from the Java jar files.
- Executed the automation from commit to deployment directly into AWS by implementing a CI/CD pipeline with the help of Jenkins and Chef. Setting up Chef Infra, bootstrapping nodes, creating and uploading recipes, node convergence in Chef SCM.
- Worked with Ansible playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment. Maintained Ansible playbooks using Ansible roles, Ansible Galaxy, utilized combination of different module in Ansible playbook with YAML scripting to configure the files on remote servers.
- Used Ansible to manage systems configuration to facilitate interoperability between existing infrastructure and new infrastructure in alternate physical data centers.
- Worked on deployment automation of all the micro services to pull image from the private docker registry using Ansible.
- Involved in fetching and deployment using NetConf and python and Bash Scripts.
- Involved in working for DevOps Platform team responsible for specialization areas related to Chef for Cloud Automation.
- Open flow and NetConf agent for network devices.
- Involved in fetching and deployment using NetConf and python and Bash Scripts.
- Worked on google cloud platform (GCP) services like compute engine, cloud load balancing, cloud storage, cloud SQL, stack driver monitoring and cloud deployment manager.

Environment: Agile Kanban/Scrum, AWS, GCP, Java, RHEL 8.0, RHEL 7.0, Splunk, RDS, EBS, IAM, ELB, ELK Stack, Docker, Ansible, YAML, Cloud bees Jenkins, Maven, Sonatype Nexus, JBOSS EAP, NoSQL, REST APIs, Salt stack.

Blackhawk Network, Pleasanton, CA

Feb 2015 - March 2017

Devops Engineer

Responsibilities:

- Created bitbucket repositories including merging and building feature branches.
- Co-engineered comprehensive cross-region backup solution with Simple Storage Service (S3), Simple Queue System (SQS), Simple Notification Service (SNS), Access Control Lists (ACL), and Python Automated deployment, reporting, server creation/decommission/deletion, and maintenance tasks via Ansible.
- Integrated logging aggregation API calls into various processes, platforms and tools. Contributed for daily build processes, including monitoring builds, break/fix management, issue tracking (JIRA), and identifying and resolving a wide variety of build-related issues for different products and versions.
- Worked on installation of Docker using Docker toolbox. Server setup and NGINX including F5 load balancing.
- Worked and installed Elastic search on the servers for Restful SOA applications.
- Performed Database tasks with Oracle, MySQL & DB2.
- Performed Continuous Delivery goal on high scalable environment, used Docker coupled with load-balancing tool NGINX.
- Deployed various enterprise applications on managed servers and cluster environment and maintained Load Balancing, High Availability and Failover.
- Creating the AWS Security groups to enable the firewall.
- Developed ECS Terraform module to deploy micro services into AWS.
- Written Templates for AWS infrastructure as a code using Terraform and Cloud Formation to build staging and production environments.
- Worked on tickets and incidents with tools like JIRA, Navigator, ALM & Service Catalog.
- Maintain automation & network simulators develop Python test scripts, run regression/sanity test release binaries.
- Configured S3 versioning and lifecycle policies to backup files, and archive files in Glacier.
- Developed build and deployment scripts using ANT and MAVEN as build tools in Jenkins to move from one environment to other environments.

Environment: Agile Scrum, AWS, AZURE, Bitbucket, Python, JIRA, SOAP/REST APIs, ALM, Service Catalog, Terraform, Cloud Formation, ANT, MAVEN, Oracle, MySQL, MongoDB, S3, Glacier, NGINX, IBM WAS, Docker and Docker Swarm.

Globeline Services, Hyderabad, India

May 2012 – Jan 2015

Devops Engineer

Responsibilities:

- Developed Python/Flask applications with MongoDB, Flask-mongo engine and deployed them to the cloud.
- Integrated CloudWatch to monitor Infrastructure and Applications.
- Worked on the AWS cloud to provision new instances, S3 Storage Services.
- Integrated CloudWatch to monitor Infrastructure and Applications.
- Used EBS storage for persistent storage and performed access management using IAM service.
- Launching Amazon EC2 Cloud Instances using Amazon Images (Linux/ Ubuntu) and Configuring launched instances with respect to specific applications.
- Designed AWS Cloud Formation templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.

- Responsible for day to day Build and deployments in Dev, Test, pre-production, and production environments.
- Implemented AWS high availability using AWS Elastic Load Balancing (ELB) which performed balance across instances in multiple availability zones.
- Setup and build AWS infrastructure various resources, VPC, EC2, ECS, S3, IAM, EBS, Security Group, Auto Scaling, and RDS in Cloud Formation JSON templates.
- Created alarms in CloudWatch service for monitoring the server's performance, CPU Utilization, disk usage, maintained user accounts IAM, RDS, and Route53 services in AWS Cloud.
- Creating S3 buckets and also managing policies for S3 buckets and a Utilized S3 bucket and Glacier for Archival storage and backup on AWS.
- Used configuration management tools Puppet, Docker for configuration management automation.
- CI/CD pipeline management through Jenkins.
- Administration and maintenance of Docker runtime environment, Versioning and lifecycle management of Docker images.
- Automated AWS volumes snapshot backups for the enterprise using Lambda and python scripts.
- Designed chef cookbooks & wrote Ansible playbooks to manage configurations and automate the installation process.
- Used AWS Beanstalk for deploying and scaling web applications and services developed with Java, NODE.JS, Python and Ruby on familiar servers such as Apache, and IIS.
- Setup Elastic Load Balancer for distributing traffic among multiple Web Logic servers and involved in deploying the content cloud platform on Amazon Web Services using EC2, S3 and EBS.
- Installed, tested and deployed monitoring solutions with SPLUNK services.

Environment: Agile, Waterfall, AWS, CloudWatch, JSON, Shell Scripting, Cloud Formation, Route 53, ELB, VPC, AWS Lambda (Python/JRE), Docker Swarm, Kubernetes, Splunk, RDS, AWS Beanstalk, Puppet, AWS EBS and IIS.

Education:

Bachelor of Technology in Computer Science and Engineering
Veltech University, TN, India

May 2012
GPA: 3.72/4.0