**ADITYA M**

**adityamayda0101@gmail.com[](mailto:canveshh@gmail.com)**

 **(469) 900-1749**

**PROFESSIONAL SUMMARY:**

* Over **8+ years** of IT experience as **DevOps Engineer** and Build & Release Engineer in **Cloud Computing**, System Administration, Data Centre Operations, Software Configuration Management, Linux Administration and Software Development Life Cycle **(SDLC)** including requirements analysis, design specification, coding and testing of enterprise applications.
* Expertise in **Amazon Web Services** cloud platform and its services like **EC2**, **S3**, **RDS**, **Lambda**, **VPC**, **VPN**, **Dynamo**, **EBS**, **ELB**, **SNS**, **Glacier**, **Auto - Scaling**, **IAM**, **Route53**, **AMI**, **Security-Groups**, **Cloud Front**, **Cloud Watch**, **OpsWork**, and **Cloud Formation** through **AWS management** console and **AWS Command Line Interface**.
* Implemented secure cloud infrastructure using (**VPC**) for Staging and Development environment on **AWS**.
* **Experience working with Apache Hadoop,kafka,spark and log stash**
* **Worked with Apache Kafka for High throughput for both publishing and subscribing with disk structures that provide constant performance even with many terabytes of stored messages**
* Transformed traditional environment to virtualized environments with **AWS (EC2, S3, EBS, EMR, ELB, EBS, Kinesis, Redshift, chef, Puppet, Jenkins, Jira, Dockers, Vagrant, Neutron, Swift, Cinder, VMware).**
* Written new plugins to support new functionality in **Terraform.**
* Seasoned in Infrastructure Automation tools like **Puppet, Ansible, and Terraform.**
* Expertise in **Jenkins** to drive all micro services builds out to the **Docker** registry and deployed to **Kubernetes**.
* Configured and implemented **DevOps tools** like **Git bash**, **Jenkins**, **Docker**, **Chef**, **and Nagios** in **Linux** distributions.
* Expertise in containerization and handling multiple images using **Docker** and **Docker-composer** and knowledge on Docker engine, Hub, Machine.
* Automated various infrastructure activities like Continuous Deployment, Application Server setup, stack monitoring using **Ansible** playbooks and have Integrated **Ansible** with Jenkins.
* Experience in developing new applications and deployed through **Ansible** and managed them in production environment.
* Strong expertise in **Hudson, Jenkins, Team City and Bamboo** for continuous integration and developed End-to-End automation solution for build, release, and deployments.
* Seasoned in different log monitoring tools like **Splunk**, **ELK (Elastic Search, Log Stash, and Kibana**) to see logs information and monitor the health and security notifications from nodes.
* Expertise in Installation, Configuration, Migration and Maintenance of **Splunk.**
* Deployed the code through web application servers like **Web Sphere**, **Web Logic**, **Tomcat and JBOSS.**
* Strong expertise in **Linux Administration**, **Networking**, **Storage**, and **Cloud technologies**.
* Strong automation and scripting skills in **Shell** and **Python.**
* Expertise in build tools like **MAVEN** and **ANT** for the building of deployable artifacts such as war & ear from source code.
* Expertise **in Unix/Linux system administration, Server Builds, System builds Installations, Upgrades, Patches, Troubleshooting on RHEL and CentOS**.
* Seasoned in Branching, Merging, Tagging, and maintaining the version across the environments using SCM tools like Subversion (**SVN**), **GIT (GitHub, GitLab)** and **Clear case.**
* Expertise in working with different Bug Tracking Tools like **JIRA, Clear Quest** and **Quality center**.
* Expertise with documentation tools, development tools & office productivity tools (**MS Project, Word, Excel, Visio, Power-point, Visual SourceSafe, Toad etc).**
* **Excellent Analytical** and **Communication skills, Quick Learner, Versatile Team player, Organized, Self-Motivated,** have the ability to pick up innovative technologies and solve complex technical problems.
* Excellent knowledge on release schedules with agile methodologies, agile operations, process and tools area.

**Technical Skills: -**

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| Cloud Skills | AWS EC2, SNS, SES, SQS, EBS, EFS, S3, CloudWatch, IAM, Lambda, VPC, Subnets, API, gateway, DynamoDB, SQL, config, Auto scaling, ELB, Azure DevOps, Azure virtual machines. |
| Configuration management | Ansible, Chef |
| Containerization Tools | Docker, Docker Swarm, Kubernetes, Kafka |
| Languages | Java, Python, SQL, Groovy |
| Operating Systems | Linux, RedHat, Windows |
| Database | Oracle, MySQL, SQL Server |
| Build Tools | Maven, Gradle, ANT, MS Build |
| CI - CD | Gitlab, Jenkins, Azure DevOps, Bamboo, TFS |
| Monitoring Tools | Splunk, Grafana, Cloud watch, AppDynamics, ELK |
| SCM Tools | GIT, SVN |
| Web/Application Servers: | IBM Web sphere, Apache Web Server, Apache Tomcat, Web Server& IIS Web Server, Web logic, Nginx, JBoss. |
| Network Protocols: | TCP/IP, FTP, SMTP, TCP/IP, HTTP/HTTPS, DHCP, NFS, Cisco Routers, LAN, Subnets. |

**Professional Experience:**

**Lowe’s, May 2021-Present**

**Sr DevOps Engineer /Cloud Engineer (AWS)**

Lowe`s Companies, Inc. operates as a home improvement store. The Company offers tools, appliances, building supplies, carpet, bathroom, and lighting products. Lowe`s serves customers in the United States. Worked as Cloud Engineer which includes AWS and Azure platforms. Worked with on boarding multiple applications from on-premises to cloud and POC on Azure. Got a chance to work with different IAM groups and implemented chef recipes and worked with Python for automating the process, worked with CI support for multiple teams.

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**Responsibilities:**

* Participated in requirement gathering and analysis phase of the project in documenting the business requirements by conducting workshops/meetings with various business users.
* Extensively worked on AWS platform and its dimensions of scalability including **VPC, EC2, ELB, S3, and EBS, ROUTE 53.**
* 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.
* Worked on AWS cloud to provision new instances and S3 Storage Services and **AWS EC2**&**Cloud watch** services and **CI/CD** pipeline management through **Jenkins.**
* Worked on Setup and build **AWS** infrastructure various resources, **VPC EC2, S3, IAM, EBS,** Security Group, Auto Scaling, and RDS in Cloud Formation **JSON** templates.
* Worked on Collaborate in the automation of AWS infrastructure via **Terraform** and Jenkins - software and services configuration via **Ansible** cookbooks.
* Configured concepts of Kubernetes like Priority Class for smooth pod scheduling and Custom CNI for IP
* Used Flume Kafka to aggregate log data into HDFS
* Developed a stream filtering system using spark streaming on top of Apache Kafka
* Designed a system using Kafka to auto-scale the backend servers based on the events throughput
* Worked with version control systems GIT and used Source code management client tools GitBash, GitHub, Git Lab.
* Configured the Prometheus alerts from the Kubernetes cluster via email-notifications and web-hook mechanisms.
* Worked on concepts like Horizontal Pod Autoscaler and Cluster Autoscaler on Kubernetes for resource optimisation and Autoscaling of Kubernetes.
* Involved in Automated Compute Engine and **Docker** Image Builds with **Jenkins** and **Kubernetes.**
* Building/Maintaining Docker container clusters managed by Kubernetes, and Orchestration of Docker images and Containers using Kubernetes by creating entire master and node.
* Administration and maintenance of **Docker** runtime environment, Versioning and lifecycle management of **Docker images,** Experienced in Docker orchestration framework.
* Wrote the **Ansible** playbooks which are the entry point for **Ansible** provisioning, where the automation is defined through tasks using YAML format. Run **Ansible** Scripts to provision Dev servers.
* Worked on Automated **AWS** volumes snapshot backups for enterprise using Lambda
* Worked on **EBS** stores for persistent storage and also performed access management using **IAM** service.
* Created alarms in **Cloud Watch** service for monitoring the server's performance, CPU Utilization, disk usage, maintained user accounts **IAM, RDS,** and **Route53** services in **AWS Cloud.**
* Worked on **Ansible** and **Ansible** Tower as Configuration management tool, to automate repetitive tasks, quickly deploys critical applications, and proactively manages change and managing the configurations of multiple servers using **Ansible.**
* Worked with **Ansible** Tower to manage Multiple Nodes and Manage Inventory for different Environments.
* Worked on **Ansible** to orchestrate software updates and verify functionality.
* Created environment on AWS platform**, AWS Hadoop EMR cluster, Kafka Cluster, Cassandra Clusters** and implemented system alerts on**Data Dog.**
* Designed **AWS Cloud Formation** templates to create custom sized VPC, subnets, NAT to ensure successful deployment of Web applications and database templates.
* Designed, managed and performed container-based deployments using Docker images containing Middleware and Applications together and evaluated Kubernetes for Docker container orchestration.
* Extensively worked on 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.**
* Created functions and assigned roles in **AWS Lambda** to run **python scripts.**
* Worked on **AWS** Bean Stalk for deploying and scaling web applications and services developed with Java, Node.js, Python and **Ruby** on familiar servers such as **Apache,** and IIS.
* Maintained interfaces and secure connections between Jenkins and CI/CD tools. Configured jobs and pipelines using Jenkins.
* Implemented a Continuous Delivery pipeline with Docker, and GitHub and AWS
* Worked on implementation team to **build** and engineer servers for **Linux** &**AIX** operating systems.
* Involved in implementing Technologies from Red Hat like Open shift & Open stack cloud base - IaaS & PaaS.
* Developed strategy to migrate Dev./Test/Production from an enterprise **VMware** infrastructure to the IaaS, Amazon Web Services (AWS) Cloud environment including run book processes and procedures.
* Wrote **PowerShell scripts** to automatically restart the uDeploy agents on **LINUX** machines
* Performed Automation and Scaling of applications using **Kubernetes.**
* Used **GIT** as Version Control System for two applications. Managed development streams and Integration streams.
* Responsible for setting up **JIRA** as defect tracking system and configured various workflows, customization and plug-ins for the **JIRA issue tracker.**

**Environment:** AWS**,** EC2, S3, AMI, ELB, EBS, IAM, RDS, DNS, cloud watch, route53, VPC, cloud front, Kubernetes, Elastic Beanstalk, BASH, APACHE/TOMCAT, Java, Python, Ruby, Redshift, Docker, Kafka, GIT, Ansible, JIRA, Terraform, Cassandra, Docker and Red Hat.

**Spencer Stuart Jan 2020 - Apr 2021**

**Cloud/DevOps engineer (AWS)**

Spencer Stuart Inc. provides human resource solutions. The Company offers executive search, recruitment, assessment, and consulting services. Spencer Stuart serves customers worldwide. As a DevOps Engineer, I was responsible for supporting the services architecture layer, which is consumed by commercial, customer-facing applications. Coordinating with development, infrastructure, and operations to manage, maintain and troubleshoot several environments. Direct involvement in projects to implement release automation, API management and cloud infrastructure.

**Responsibilities:-**

* Worked as a build and release engineer, deployed the services by (**AWS DevOps**) pipeline. Created and Maintained pipelines to manage the **IAC** for all the applications.
* Created highly scalable and fault tolerant multi-tier AWS environments spanning across multiple availability zones using **Cloud Formation** templates.
* Developed **Ansible** Playbooks to manage Web applications, environment configuration files, Users, Mount points, and Packages. Customized **Ansible** modules for finding facts about AWS Monitor alarms and taking actions to manage those alarms during deployments.
* Worked on setting-up **Docker** to automate container deployment and worked on Docker container to create **Docker images** for different environments.
* Involved in Configuration Automation and Centralized Management with **Ansible** and Implemented **Ansible** to manage all existing servers and automate the build/configuration of new servers.
* Implemented **Jenkins** pipelines into **AWS** pipelines to drive all micro services builds out to the Docker registry and then deployed to **Kubernetes**, Created Pods and managed using **Amazon EKS**.
* Used **Terraform** to Setup infrastructure in **PCF** and **Azure Environments**. Converted existing **Terraform** modules that had version conflicts to utilize **cloud formation** during **Terraform** deployments to enable more control or missing capabilities.
* Installed **Prometheus** and **Grafana** using **Helm** to monitor the application performance in the **Kubernetes** cluster. Created clusters for Microservice applications deployed in different availability zones for high availability.
* Used **Bitbucket** to host and manage the source code in private Repositories and configured **Jenkins** for integrating these Repositories to the **CI/CD** process. Created **Jenkins** jobs and distributing load on **Jenkins** server by configuring **Jenkins nodes**, which will enable parallel builds.
* Managed **AWS Container Registry** to store private **Docker images**, which are deployed and **AWS pipelines** to build, test, and deployments. **AWS Monitor** to collect metrics and logs. Configured Monitor to track performance and maintain security, and used **Grafana** tool to collect metrics, queries.
* Configured **Power Shell scripts** to automate the Azure cloud system creation including end-to-end infrastructure, VMs, storage, firewall rules. Worked with **PowerShell** to automate **SQL tasks**, environment management related tasks and procedures on Windows machines.
* Experience developing and **maintaining PowerShell scripts**, e.g., detect and remove devices, disable and modify user accounts of terminated employees, automated monthly reboots.
* Written build and deployment scripts using **MAVEN** and **ANT** as build tools in **Jenkins** to move from one environment to other environments written in **XML formats**.
* Integrated **GIT** by using **Web hooks** and scripted Rest API in service Now and stored the information in **Service Now** table. Managed all the bugs and changes using tracking tools like **service now** and **JIRA**.
* Worked on authoring pom.xml files, performing releases with the **Maven** release plugin, and managing artifacts in maven internal repository.
* Performed automation of **CI/CD pipeline** in private cloud using Jenkins shared libraries and multi branch pipeline and automated the static code analysis through **SonarQube** in **Jenkins** pipeline for checking code quality.

**Environment**: AWS (Amazon EKS, AWS Container Registry, AWS Monitor, AWS Pipelines), IAC, Cloud Formation, Ansible, Docker, Jenkins, Kubernetes, Terraform, Prometheus, Grafana, Helm, Bitbucket, CI/CD, PowerShell, SQL, Grafana, Maven, ANT, GIT, service Now, JIRA, SonarQube

**Molina Healthcare, Long Beach, CA Nov 2018 – Dec 2019**

**DevOps/Cloud Engineer**

Molina Healthcare is a managed care company headquartered in Long Beach, California, United States. The company provides health insurance to individuals through government programs such as Medicaid and Medicare

**Responsibilities:-**

* Configured **AWS** application deployment infrastructure using sources, i.e., Virtual Private Cloud (**VPC**), **EC2**, Elastic Bean Store (**EBS**), Identity Access Management (**IAM**), **S3**, **Dynamo DB**, **Mongo DB,** **Route53**, Simple Notification Service (**SNS**), Simple Email Service (**SES**), Simply Queue Service (**SQS**), **CloudWatch**, **CloudTrail**, **Security Group**, Auto Scaling Group (**ASG**), and **RDS** using **CloudFormation**, **Terraform templates**.
* Created required reliable architectures and end-to-end migration plan for migrating **Linux/Windows** servers along with web applications into **AWS** cloud platform using services as **IPSec** tunnel, **VPN** **gateway**, **Customer** **Gateway**, and **Data** **Pipeline**.
* Designed roles and groups for users and resources using AWS Identity Access Management (**IAM**) and implement Multi-Factor Authentication (**MFA**) on externally available servers and on **AWS** **Console**, monitoring and alerting leveraging AWS **Cloud** **Watch** and **Cloud** **Trail**.
* Executed **Lambda** functions in **Python** to invoke scripts for data transformations and analytics on large data sets in **EMR** clusters and Kinesis data streams and call **Dynamo** **DB** by **REST API**.
* Automated the implementation of **AWS** **VPCs**, **ELBs**, security groups, SQS queues, **S3** buckets by using **Terraform** and used Terraform as a tool to manage different cloud infrastructure resources, i.e., **VMware**, and **Docker** **containers**.
* Configured cluster operations in **AWS** **Kubernetes** (**EKS**) to deploy microservices with **CI/CD** system and used **Kubernetes** cluster to scale up operations of clusters, maintain the cluster services, load balancing, network policies, group Docker containers across different platform.
* Automated **CI/CD pipeline** by utilizing **Docker Containers, Docker Swarm**, and orchestration for a microservice-based application and automated with **Ansible** **playbooks** based on **YAML**.
* Integrated Docker container-based test infrastructure to **Jenkins** **CI/CD** test flow and executed build environment by integrating with **GIT** and **JIRA** to trigger builds using **WebHooks** and **Slave Machines**.
* Installed and configured **ELK** stack in both legacy and Docker Swarm mode and developed pipeline for application logs from App Server to Elastic search through **Logstash** and used logs aggregation tool ELK configuration and administration for monitoring **EC2** **instances**.
* Created **AWS** **OpsWorks** platform to integrate **Ansible** process to deploy codes, various DB configurations to modularize and optimize product configuration.
* Upgraded various CI/CD tools **Jenkins** using **SDLC** process and supported upgrading the software patches and collaborated with the vendor for any issues to completion.
* Set up **Jenkins’s** server and built jobs to provide continuous automated builds based on polling the **GIT** **SCM** during the day and periodically scheduled the builds overnight to support development.
* Automated **MySQL** container deployment in **Docker** and monitoring of these containers and configured, monitored distributed and multi-platform servers using **Nagios**.
* Written build and deployment scripts using **MAVEN** and **ANT** as build tools in **Jenkins** to move from one environment to other environments written in **XML formats**.
* Managed **Azure Active Directory** and **AVD** related systems.
* Used **Shell**, **Bash**, and **Python** scripts to supplement automation provided by **Ansible** and **Terraform** for encryption.
* Implemented **Terraform** modules for deployment of applications across multiple cloud providers. Worked with **Terraform** key features such as **Infrastructure as code**, Execution plans, Resource Graphs, Change Automation. Hands on experience in writing **Terraform modules** to manage AWS infrastructure, for automatic creation of **RDS** instances, **VPCs**, **Autoscaling** groups, **Load balancers**, **SQS**, **S3** buckets.
* Created database tables that can store and retrieve any size of data and serve any level of request traffic using **DynamoDB**. Configured commercial SSL certificates for Application Servers such as **WebSphere**, **WebLogic**, **Tomcat** using **NGINX** and Apache web servers to terminate SSL endpoint.
* Set up **JIRA** as defect tracking system and configured various workflows, customizations, and plugins for bug/issue tracking.

**Environment**: AWS ( VPC, EC2, EBS, IAM, S3, Route53, SNS, SES, SQS, CloudWatch, CloudTrail, Security Groups, AWS Lambda, AWS OpsWorks, EKS), CloudFormation, Terraform, CI/CD Pipelines, Docker, Kubernetes, ELK, Dynamo DB, Mongo DB, Shell, Bash, Python, Jenkins, SDLC, GIT, JIRA, MySQL, GIT SCM, Nagios, Ansible, Maven, ANT, RDS, Load Balancers, WebSphere, Tomcat, NGINX.

**Citi Bank, Irving, TX June 2016 – Oct 2018**

**DevOps/ Cloud Engineer**

Citigroup Inc. is a diversified financial services holding company that provides a broad range of financial services to consumer and corporate customers. The Company services include investment banking, retail brokerage, corporate banking, and cash management products and services. Citigroup serves customers globally.

**Responsibilities:-**

* Built and Deployed **Java/J2EE** to a web application server in an **Agile**, continuous integration environment and automated the complete process and responsible for the Build and Release management.
* Configured **AWS Config** for setting up **CloudTrail** and compliance check on **AWS** Resources like **S3**.
* Experienced in creating Security groups, **VPC** with customized **Subnets**, Internet Gateways, and **Routing** **tables** for Stack setup as well as **VPN** **Tunnelling** in **AWS** cloud environment.
* Managed to set up **EC2** instances with **Nginx**, **Tomcat** servers, and installed **Docker** in the AWS cloud.
* Configured **Minions**, **Pods** along with **Docker** engine in **AWS EC2** instances.
* Created customized **AMI’s** and installed **EC2** stack using **CloudFormation** and **Terraform** templates.
* Implementing and maintaining a Continuous Delivery process using **GitHub**(hooks), Build tools like **maven**, **Jenkins** and management tools like **Chef**, **Puppet**.
* Implemented **Maven** builds to automate .JAR and .WAR files and written builds using **XML** formatted files.
* Written build and deployment scripts using **MAVEN** and **ANT** as build tools in **Jenkins** to move from one environment to other environments written in **XML formats**.
* Also responsible for creating **Docker** containers using **docker images** to test the application and created custom images using **Docker Files** with different servers and differs Operating Systems and maintained Docker Containers to package the application into a standardized unit for Software Development.
* Written **SQL Queries** for generating different reports and for data mining.
* Learned and worked with **Ansible** to manage the containers and the environments around the containers using the **YAML** files and experienced in deployment automation using multiple tools like **Chef**, **Puppet**, **Jenkins**, **GIT**, **TFS**, **SonarQube**, Maven and ANT.
* Worked to improve the availability and timeliness of test environments and learned new concepts to develop automation in testing environments like **Kubernetes**, **Ansible**, **Terraform**, **New Relic**, and various cloud resources that are available in the market.
* Hands-on experience in the design and development phase of a multi-module **Java**, **Scala**, spring and hibernate projects and ensured processes are deployed successfully to the production environment.

**Environment**: Java/J2EE, Agile, AWS, AWS config, CloudTrail, AWS S3, VPC, Subnets, Routing Tables, VPN Tunnelling, EC2, Nginx, Tomcat, Docker, CloudFormation, Terraform, GitHub, Maven, Jenkins, Chef, Puppet, Ansible, YAML, GIT, TFS, SonarQube, Kubernetes, New Relic, JAVA, Scala.

**Key Point Technologies April 2014 – May 2016**

**Linux System Administrator**

Responsibilities:-

* Involved in **Linux** administration along with other functions managing different servers like **Apache/Tomcat** and databases such as **Oracle, MySQL**, **Cassandra**, **RDBMS**, and **MongoDB.**
* Installation, configuration and management of **Red Hat Enterprise** **Linux, Windows** Server Active directory.
* Involved in creating, deploying, and managing **Linux** and **Windows** workloads using **Red Hat** Enterprise Virtualization manager for enhanced performance.
* Developed automated processes that run daily to check disk usage and perform clean-up of file systems on Linux environments using **Shell scripting** and **PowerShell** for Windows.
* Worked on **RPM** package manager to install, update, verify, query and erase software packages on Linux servers and worked on automation of activities using **Bash** **scripting**.
* Provided support for updating and rollback of applications on the Linux Servers as well as initiating and terminating services.
* Performing **OS Kernel** patching servers, Firmware upgrades in different models on different **Solaris / Linux Versions**.
* Remote system Administration of **Linux** handling patching and **L1 calls**.
* Mentoring new Trainees, training them to handle requisite tasks.
* Experience in patching **Solaris** and **Linux** servers using **blade** **logic** and ops centre tools
* Experience in performing live upgrade on **Solaris** servers.
* Initiative on proactive projects like Data centre walk through, console remediation.
* Worked on **E25k** frames, **SC failover activity**, disk replacement on MAIN and SPARE SC.
* Worked as hardware focal for fixing of all hardware problems on high-end **Solaris** servers.
* Coordinating with vendors like **SUN** and **VERITAS** for hardware replacement and support.

**Environment**: LINUX, OS Kernel, Solaris, E25K, SUN, VERITAS, Linux, Apache, Tomcat, Oracle, MySQL, Cassandra, RDBMS, MongoDB, Red Hat Enterprise Linux, RPM, Bash, Shell, and PowerShell Scripting.