### Vijaya Amaresh Kumar Chilakala

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**Carrier Highlights:**

* **Certified** **Multi Cloud DevOps Engineer** **with 10+ years** extensive IT experience, Expertise in **Infrastructure** and **Cloud Engineering & Linux Engineering**.
* Exposed to all aspects of **Software Development Life Cycle (SDLC)** such as Analysis, Planning, Developing, Testing and implementing and Post-production analysis of the projects and methodologies such as Agile, SCRUM and waterfall
* Extensive experience in Amazon Web Services **(AWS) Cloud services** such as **EC2, VPC, S3, IAM, EBS, RDS, ELB, VPC, Route53, Dynamo DB, Lambda, Gaur duty, Config, Macie, Service Catalog, Cloud Formation, Auto Scaling, Cloud Front, CloudTrail, CloudWatch, Elastic search, Elastic File system (EFS), Elastic Beanstalk, SNS, SQS, SES, SWF & AWS Direct Connect.**
* Experience with **designing, building, and operating solutions** using virtualization using private hybrid/public cloud technologies. **“DevSecOps** Process & Regulatory” Plan & Execution for **Cloud Migration Plan**. Knowledge of **High Availability (HA)** and Disaster Recovery (DR) options in **AWS**.
* Knowledge of **High Availability (HA)** and Disaster Recovery (DR) options in **AWS**.
* Experience in Migrating a production infrastructure into an Amazon Web Services utilizing AWS Cloud formation.
* Hands on experience in Architecting Legacy Data Migration projects such as Teradata to AWS Redshift migration and from on-premises to **AWS Cloud**.
* Monitoring resources and Applications using **AWS Cloud Watch**, including creating alarms to monitor metrics such as **EBS, EC2, ELB, RDS, S3, SNS** and configured notifications for the alarms generated based on events defined.
* Experience with **designing, building, and operating solutions** using virtualization using private hybrid/public cloud technologies. **“DevSecOps** Process & Regulatory” Plan & Execution for **Cloud Migration Plan**. Knowledge of **High Availability (HA)** and Disaster Recovery (DR) options in **AWS**.
* Experience in different migration services like AWS Server Migration Service (SMS) to migrate on-premises workloads to AWS in easier and faster way using Rehost “lift and shift\* methodology and AWS Database Migration Service (DMS), Sybase on premise data to RDS SQL Servers.
* Knowledge of **High Availability (HA)** and Disaster Recovery (DR) options in **AWS**.
* Experience in Migrating a production infrastructure into an Amazon Web Services utilizing AWS Cloud formation.
* Experience in managing **U Deploy** configuration, administration, upgrade, security and maintenance of systems, platforms like Web, application. Hands-on experience in deployment automation using Shell/Ruby scripting.
* Extensively worked on Jenkins and Hudson by installing, configuring and maintaining the purpose of **Continuous Integration (CI) and for End-to-End automation** for all build and deployments and in implementing **CI/CD** for database using Jenkins. Integrate with DevOps teams to help them transform into **DevSecOps** teams.
* Experience in managing **U Deploy** configuration, administration, upgrade, security and maintenance of systems, platforms like Web, application.
* Experience in setting up **Baselines, Branching, Merging** and Automation Processes using Shell, Ruby, and PowerShell scripts.
* Experience in using build utilities like **Maven, Ant and Gradle** for building of jar, war, and ear files.
* Experience in using version controller tools **SVN, Git, GitHub, and Bit Bucket**.
* Expertise in application builds, deployment, smoke testing and release promotion for complex applications and infrastructure.
* Experience in ETL techniques and Analysis and Reporting including hands on experience with the Reporting tools such as Cognos.
* Used principles of Normalization to improve the performance. Involved in **ETL code using PL/SQL** in order to meet requirements for **Extract, transformation, cleansing** and loading of data from source to target data structures.

**EDUCATION:**

* MASTER’S In Information Assurance with 3.6 GPA – Wilmington University

**Certifications:**

* Certified AWS DevOps Engineer Professional in Amazon Web Services for Cloud Computing Service

**Technical Skills:**

Operating System :Windows, Mac OS, RHEL 4/5/6/7, Ubuntu, CentOS

Versioning Tools :Subversion, GIT Hub, GIT Lab, Bit Bucket

CI Tools :Jenkins, Bamboo, Hudson

CD Tools :IBM UDeploy

Build Tools :ANT, MAVEN, Gradle

Bug Tracking Tools :JIRA, ServiceNow

Programming Languages :Python, C, C++

Scripting Languages :Shell scripting, Python, Java Scripting, Bash and Ruby

Web Application servers :Apache Tomcat, JBOSS, Nginx

Databases :MySQL, Mongo DB, NOSQL

Monitoring Tools :Amazon CloudWatch,CloudTrail**,** Nagios, Splunk, nexus, Data Dog

Configuration Management Tool :Chef, Ansible

Virtualization Technologies :vSphere, VMware Workstation, Oracle Virtual Box, Hyper-V

Containers Tools :Docker, ECS, Kubernetes, EKS

Testing tools :SELENIUM, Junit

Networking/protocols :TCP/IP, REST, API, Routing Protocols, Subnets, VPN,Route53

REPOSITORIES : NEXUS, GIT, ARTIFACTORY,

Cloud Technology :AWS (EC2, ELB, VPC, RDS, IAM, CLOUD FORMATION, S3,

 CloudWatch, CloudTrail, Lambda, Service Catalog, Config, EFS,

 X-Ray, ECS, EKS, Step Functions, SNS, SQS, Dynamo DB).

**Work Experience:**

**Cloud DevOps Engineer**

**Bank Of America –** **Dallas, TX July 2022 – Present**

**Responsibilities:**

* Orchestrated the automated provisioning of AWS multi-Accounts environments that is secure using AWS Landing Zone, well architected, as per the Organization Security Standards using AWS service catalog through AWS Control Tower and supporting the entire organization to setup the access and to make sure everything the need is up and running.
* Designed and deployed a secure multi-account AWS environment using Terraform, utilizing AWS Organizations, IAM policies, and cross-account roles for centralized management.
* Implemented AWS security best practices in Terraform configurations, including IAM role-based access controls, security group rules, and data encryption for compliance with industry standards.
* Set up monitoring and logging solutions on AWS using CloudWatch, CloudTrail, and Terraform, providing real-time insights and auditing capabilities for infrastructure.
* Designed and implemented disaster recovery and backup strategies on AWS using Terraform, including automated snapshots and multi-region replication for critical data.
* Deployed serverless architectures on AWS using Terraform, including Lambda functions, API Gateway, and DynamoDB, to build scalable and cost-efficient solutions.
* Managed Terraform state with remote backends (e.g., S3, DynamoDB) for safe state file storage and team collaboration and used Git for version control of infrastructure code.
* Developed a strategy that utilized both ECS for straightforward, scalable container deployments, and EKS for complex, microservices-based applications.
* Conducted performance benchmarking to compare ECS and EKS in various scenarios, providing insights into selecting the appropriate service based on specific project needs.
* Developed and managed complex CloudFormation templates for various environments, ensuring consistency and compliance with best practices for infrastructure provisioning.
* Managed the deployment of containerized microservices using Amazon ECS, integrating with CI/CD pipelines for automated updates and scaling.
* Implemented ECS task definitions and services for optimal resource utilization, achieving a balance between performance and cost-efficiency in containerized environments.
* Configured CloudWatch Logs and integrated third-party monitoring tools for real-time monitoring and logging of ECS services.
* Streamlined governance processes by establishing AWS Service Control Policies (SCPs) to enforce security and compliance requirements uniformly.
* Optimized costs related to secret management by implementing best practices and leveraging features such as cross-region replication and resource tagging.
* Developed disaster recovery plans and backup strategies for secrets managed in AWS Secrets Manager, ensuring business continuity in case of system failures.
* Advocated and implemented security best practices related to secret management, including the use of encryption, least privilege access, and regular security reviews.
* Implemented a comprehensive network monitoring solution using AWS PCAP and VPC Flow Logs, resulting in a 30% reduction in network downtime.
* Security initiative that leveraged packet capture and VPC logs to detect and mitigate a significant DDoS attack.
* Used security groups, network ACLs, internet gateways, and route tables to ensure a secure zone for the organization in AWS public cloud. Worked on project to migrate Supply chain dataset from MS SQL/Oracle to Aurora PostgreSQL on AWS using Data Migration Service.
* Plan, build, and optimize Confidential Aurora PostgreSQL and MySQL database environments.﻿ Migrated MySQL database environments with minimal downtime to AWS Aurora.
* Implemented Config-Aggregator to enhance the compliance across the accounts and centralized management.
* Built AWS Lambda function with python language to monitor the new resources creation without the organization standards and enabled notification and appropriate action to taken.
* Developed unit and functional tests in Python managed the code migration from TFS, CVS and Star team to Bitbucket repository. Created a Lambda Deployment function and configured it to receive events from your S3 bucket.
* Consulted with stakeholders to gather and document requirements for data governance projects, helping to establish agreed upon data definitions and consistent data capture across the company.
* Critically evaluated information gathered from multiple sources and worked with customers to assess whether data conformed to data governance approved mappings and standards.
* Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources.
* Wrote Ansible Playbooks with Python SSH as the Wrapper to Manage Configurations of AWS Nodes and Test Playbooks on AWS instances using Python. Experience with Ansible Tower to more easily manage enterprise Ansible deployments.
* Configure the pipeline to periodically check the repository. Start the pipeline when changes are detected.
* Configure the repository to generate an Amazon CloudWatch Events event upon changes.
* Configure the pipeline to start in response to the event. Created and configured elastic load balancers and auto scaling groups to distribute the traffic and to have a cost efficient, fault tolerant and highly available environment.
* Wrote Ansible playbooks to launch AWS instances and used Ansible to manage web applications, configuration files, used mount points and packages.
* Attach an AWS IAM policy to the developer IAM group that denies the actions of pushing commits, merging pull requests, and adding files to the master branch.
* Developed and maintained Python/Shell PowerShell scripts for build and release tasks and automating tasks.
* Integrated services like Bitbucket AWS Code Pipeline and AWS Elastic Beanstalk to create a deployment pipeline automating the build, test, and deployment process for Java applications.
* Integrated JUnit tests into the CI/CD pipeline, utilizing AWS CodeBuild to run unit tests and report results, ensuring early detection of issues and maintaining high code quality.
* Diagnosed and resolved issues within the CI/CD pipeline, AWS infrastructure, and JUnit testing processes, ensuring minimal disruption to the software development lifecycle.
* Implemented domain name service (DNS) through Route53 to have highly available and scalable applications.
* Created EBS volumes for storing application files for use with EC2 instances whenever they are mounted to them.
* Experienced in creating RDS instances to serve data through servers for responding to requests.
* Implemented the AWS Cost budget notifications environment wise by using python with Lambda functions and SNS notification service.

**Environment/Tools:** EC2, Elastic Load Balancing, ECS, EKS, Cloud Front, Power Shell, Cloud Formation, Elastic Cache, CloudWatch, Route53, Redshift, Lambda, Dynamo DB, RDS, Terraform, Jira, Ansible, Bash scripts, Bit bucket, Service Catalog, X-Ray, Guard Duty, Config, Macie, VPC, CloudTrail, IAM, Redlock, Organizations, WAF, S3, Elastic Search, SNS, SQS and SES.

**Cloud DevOps Engineer**

**Macquarie Group –** **Philadelphia, PA Sep 2020 – June 2022**

**Responsibilities:**

* Orchestrated the automated provisioning of AWS multi-Accounts environments that is secure using AWS Landing Zone, well architected, as per the Organization Security Standards using AWS service catalog through AWS Control Tower and supporting the entire organization to setup the access and to make sure everything the need is up and running.
* Maintaining Cl/CD pipeline with bamboo on Docker container environment utilizing Docker swarm and Docker for the runtime environment for the Cl/CD system to build test and deploy on DEV, UAT and PROD environment.
* Set up the ETL process by reading DDL statements from S3 buckets, validate the queries on Athena platform and loaded data into DynamoDB tables.
* Experience in configuring the multiple docker images and creating docker container to provide end to end automation of CA API Gateways.
* Automated the process of keeping track of succeeded and failed Athena queries, written python code in lambda function.
* Experience in writing SAM template to deploy serverless applications on AWS cloud.
* Hands-on experience on working with AWS services like Lambda function, Athena, DynamoDB, Step functions, SNS, SQS, S3, IAM etc.
* Design and Develop ETL Processes in AWS Glue to migrate Campaign data from external sources like S3, ORC/Parquet/Text Files into AWS Redshift.
* Create external tables with partitions using Hive, AWS Athena and Redshift. Schedule the production Jobs using Airflow, CloudWatch, AWS Lambda and AWS Glue.
* Create an external table to access the data from S3 by accessing its metadata through Glue Catalog. Understood the schema/table structure using Glue catalog
* Developing and maintaining applications written for AWS S3, Lambda, AWS DynamoDB, AWS SQS, AWS SNS and Amazon Serverless Application Model.
* Worked with AWS Glue jobs to transform data to a format that optimizes query performance for Athena. Wrote AWS Glue scripts to extract, transform load the data.
* Experienced with event-driven and scheduled AWS Lambda functions to trigger various AWS resources.
* Integrated SQS and DynamoDB with step functions to iterate through list of messages and updated the status into DynamoDB table. AWS Glue is used to explore the schema of the data as it arrives.
* Used Go Programming Language (Golang) and Scala in the development of the application.
* Implemented different state machines and using almost all available tasks for step functions like map, parallel, choice, task etc.
* Involved in Upgrade of Bamboo & Artifactory Server by scheduling backups in S3.
* Managed the Code Repository by maintaining code in Bit Bucket, improve practices of branching and code merge to custom needs of development team.
* Experience in maintaining Atlassian products like JIRA, Confluence, Bamboo etc. Configuring and managing AWS Simple Notification Service (SNS) and Simple Queue Service (SQS).
* Installation, Configuration and Management of RDBMS and NoSQL tools such as Dynamo DB.
* Created a Lambda Deployment function and configured it to receive events from your S3 bucket.
* Configured S3 buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirement. Have experience with Serverless/PaaS technologies (API Gateway, Lambda, Dynamo, S3, etc.).
* Attach a resource policy to the Code Commit repository that denies members of the IAM developer group the actions of pushing commits, merging pull requests, and adding files to the master branch.
* Integrated services like Bitbucket, AWS Code Pipeline, Bamboo and AWS Elastic Beanstalk to create a deployment pipeline.
* Automated regular tasks using Python code and leveraged Lambda function wherever required.
* Configure the repository to generate an Amazon CloudWatch Events event upon changes.
* Integrated the AWS S3 logs with Athena service, exported the data in csv format by leveraging the Lambda with python code.
* Working with Data Engineer team to analyses the data in S3 bucket using AWS Athena and understand the pattern of data.
* Working on tools like Bamboo for building the job and putting the latest files for deployment in AWS S3 bucket.
* Configuring AWS SNS to publish message to trigger AWS lambda function.
* Define and document best practices and strategies regarding application deployment and infrastructure maintenance.
* Implement the application’s CI/CD pipeline using bitbucket/bamboo and lambda.
* Implemented step functions for triggering series of lambdas executing different functionalities.
* Automation of applications for build and deployments. No human interference during the build and deployment of the application.

**Environment/Tools:** EC2, Elastic Load Balancing, ECS, EKS, Cloud Front, Power Shell, Cloud Formation, Elastic Cache, CloudWatch, Route53, Redshift, Lambda, Dynamo DB, RDS, Terraform, Jira, Ansible, Bash scripts, Bit bucket, Service Catalog, X-Ray, Guard Duty, Config, Macie, VPC, CloudTrail, IAM, Redlock, Organizations, WAF, S3, Elastic Search, SNS, SQS and SES.

**Cloud DevOps Engineer**

**Jefferies LLC. –** **Jersey City, NJ Feb 2019 – Aug 2020**

**Responsibilities:**

* New AWS Accounts setup from scratch using AWS Service Catalog, enabling IAM Users, Roles, Policies as per the Organization Security Standard.
* Complete need to end AWS automation, creating account, configuring roles policies, users, EC2 launch Service Catalog, Security Groups, network ACL’s, S3, API creation. CloudFront. Created users, Roles, Policy to access AWS Glue
* Built CloudFormation templates for SNS, SQS, Elasticsearch, DynamoDB, Lambda, EC2, VPC, RDS, S3, IAM, CloudWatch services implementation and integrated with Service Catalog.
* Proficient in AWS services like VPC, EC2, S3, ELB, Autoscaling Groups (ASG), EBS, RDS, IAM, CloudFormation, Route53, CloudWatch, CloudFront, CloudTrail.
* Implemented Config-Aggregator to enhance the compliance across the accounts and centralized management.
* Built AWS Lambda function with python language to monitor the new resources creation without the organization standards and enabled notification and appropriate action to taken.
* Created typescript reusable components and services to consume RESTAPIs using component-based architecture using angular.
* Worked on some of the new features of Angular like new if else syntax, ng-templates, and form validators.
* Experienced in creating multiple VPC’s and public, private subnets as per requirement and distributed them as groups into various availability zones of the VPC.
* Developed unit and functional tests in Python managed the code migration from TFS, CVS and Star team to Bitbucket repository.
* Created NAT gateways and instances to allow communication from the private instances to the internet through bastion hosts.
* Used security groups, network ACL’s, internet gateways and route tables to ensure a secure zone for organization in AWS public cloud. Integrated ServiceNow with Splunk to generate Incidents from Splunk Administered Apache HTTP Server 2.0.
* Consulted with stakeholders to gather and document requirements for data governance projects, helping to establish agreed upon data definitions and consistent data capture across the company.
* Critically evaluated information gathered from multiple sources and worked with customers to assess whether data conformed to data governance approved mappings and standards.
* Implemented a 'server less' architecture using API Gateway, Lambda, and Dynamo DB and deployed AWS Lambda code from Amazon S3 buckets. Created a Lambda Deployment function and configured it to receive events from your S3 bucket.
* Implemented a centralized logging system using log stash configured as an ELK stack (Elastic search, Log stash, and Kibana to monitor system logs, AWS CloudWatch, VPC Flow logs, CloudTrail Events, changes in S3 etc.
* Experience in Designing & Data Modelling, Bulk Document Indexing & Search API's in Elastic Search.
* Creating a RESTFUL web services using elastic search services & Creating queries in Elastic search
* Attach an AWS IAM policy to the developer IAM group that denies the actions of pushing commits, merging pull requests, and adding files to the master branch.
* Attach a resource policy to the Code Commit repository that denies members of the IAM developer group the actions of pushing commits, merging pull requests, and adding files to the master branch.
* Set up an AWS Lambda function that runs every 15 minutes to check for repository changes and publishes a notification to an Amazon SNS topic.
* Developed and maintained Python/Shell PowerShell scripts for build and release tasks and automating tasks.
* Integrated services like Bitbucket AWS Code Pipeline and AWS Elastic Beanstalk to create a deployment pipeline.
* Created S3 buckets in the AWS environment to store files, sometimes which are required to serve static content for a web application.
* Configured Logstash: input, filter, output plugins - database, jms, log file sources and elastic search as output converting search indexes to Elastic with large amount of data. Writing HBase and Elastic Search Java Clients and queries.
* Elastic search experience and capacity planning and cluster maintenance. Continuously looks for ways to improve and sets a very high bar in terms of quality.
* Configured S3 buckets with various life cycle policies to archive the infrequently accessed data to storage classes based on requirement.
* Configured the application to run on the datacenter using Terraform. Developed and deployed stacks using AWS Cloud Formation Templates (CFT) and AWS Terraform.
* Experienced with Ansible playbooks for virtual and physical instance provisioning, configuration management, patching and software deployment and wrote shell scripts to bootstrap instance.
* Implemented Ansible to manage all existing servers and automated build/configuration of new servers.
* Possess good knowledge in creating and launching EC2 instances using AMI’s of Linux, Ubuntu, RHEL, and Windows Used.
* Design an ELK system to monitor and search enterprise alerts. Installed, configured and managed the ELK Stack for Log management within EC2 / Elastic Load balancer for Elastic Search.
* Implemented domain name service (DNS) through Route53 to have highly available and scalable applications.
* Created EBS volumes for storing application files for use with EC2 instances whenever they are mounted to them.
* Experienced in creating RDS instances to serve data through servers for responding to requests.
* Created snapshots to take backups of the volumes and also images to store launch configurations of the EC2 instances.
* Written Templates for AWS infrastructure as a code using Terraform to build staging and production environments.
* Automated regular tasks using Python code and leveraged Lambda function wherever required.
* Implemented Amazon Macie, Guard Duty, Centralized CloudTrail, Centralized Cloud Config, Redlock integration.
* Implemented WAF & Shield across all the AWS environments to maintain the environments safe and secured.
* Implemented the AWS Cost budget notifications environment wise by using python with Lambda functions and SNS notification service.

**Environment/Tools:** EC2, Elastic Load Balancing, ECS, EKS, Cloud Front, Power Shell, Cloud Formation, Elastic Cache, CloudWatch, Route53, Redshift, Lambda, Dynamo DB, RDS, Terraform, Jira, Ansible, Bash scripts, Bit bucket, Service Catalog, X-Ray, Guard Duty, Config, Macie, VPC, CloudTrail, IAM, Redlock, Organizations, WAF, S3, Elastic Search, SNS, SQS and SES.

**Cloud DevOps Engineer**

**eBay INC -** **San Jose, ca Feb 2018 – Jan 2019**

**Responsibilities:**

* Configured and deployed GIT repositories with branching, forks, tagging, merge requests and notifications.
* Automated weekly releases with Maven scripting for compiling Java Code, debugging and placing Builds into Maven Repository.
* Experienced in authoring pom.xml files, performing releases with Maven release plugins and managing artifacts in Maven internal repository.
* Involved in installing Jenkins on Linux environment and implemented a Master and Slave configuration to run multiple build operations in parallel.
* Deployed and monitored Micro services using pivotal cloud foundry, also managed domains and routes with the cloud foundry. Worked in using Dockers Swarm and deployed spring boot applications.
* Built enterprise wide DNS historical data trending analysis tools in Go (Golang), Languages with REST API for user queries as Microservice.
* Monitor the services, methods, traffic and exceptions on a regular basis using API Gateway Dashboard, Monitoring and complex queries in Splunk.
* Apply expertise on REST/RESTful, SOAP API, WSDL, JSON, Webservices as a part of supporting API Gateway.
* Implementing Continuous Integration and Continuous Deployments using CI tool Jenkins and enhancing the Jenkins shared libraries using chef, Groovy DSL, Shell and Python Scripts.
* Created stage timeline in Web UI client using JavaScript and implemented stage deletion in CLI using Golang. Used Go to run the Docker Command Line Interface tools.
* Built micro services using API gateway.
* Enhanced, fixed functional and performance related bugs in core product written in GO (Golang).
* Monitoring Splunk dashboards, Splunk Alerts and configure scheduled alerts based on the internal customer requirement.
* Implemented new JIRA workflows for the QA teams and worked on Splitting JIRA and Remedy server’s configuration
* Design an ELK system to monitor and search enterprise alerts. Installed, configured and managed the ELK Stack for Log management within EC2 / Elastic Load balancer for Elastic Search.
* Used SonarQube for continuous inspection of code quality and to perform automatic reviews of code to detect bugs. Managing AWS infrastructure and automation with CLI and API.
* 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.
* Building/Maintaining Docker container clusters managed by Kubernetes Linux, Bash, GIT, Docker, on GCP (Google Cloud Platform).
* Created Kubernetes cluster with objects like Pods, Deployments, Services and Config Maps and created reproducible builds of the Kubernetes applications, managed Kubernetes manifest files and Helm packages and implemented Kubernetes to deploy scale, load balance, scale and manage Docker containers with multiple namespace versions.
* Working on Micro services for Continuous Delivery environment using Docker.
* Worked on Ansible for configuration management and infrastructure automation. Also created inventory in Ansible for automating continuous deployment and wrote playbooks using YAML scripting.
* Installed Docker using Docker Toolbox and worked on creating the Docker containers and Docker consoles for managing the application life.
* Setup Log Analysis AWS Logs to Elastic Search and Kabana and Manage Searches, Dashboards, custom mapping and Automation of data.
* Working with Terraform key features such as Infrastructure as code, Execution plans, Resource Graphs, Change Automation.
* Setup JFrog Artifactory on AWS, single copy of any binary is ever stored on this file system.
* Used Minikube to manage local deployments in Kubernetes, created local cluster and deployed application containers.
* Creation of RDS database instances Postgres SQL in AWS cluster making use of EC2 and VPC and launched via Cloud Formation template. Implemented logging solutions with Elastic search, Logstash & Kibana.
* Used Kubernetes to manage containerized applications using its nodes, Config Maps, selector, Services and deployed application containers as Pods.
* Utilized Kubernetes for the runtime environment of the CI/CD system to build, test deploy.
* Implemented and maintained the monitoring and alerting of corporate servers/storage using AWS CloudWatch, Nagios and New Relic.
* Used Nagios for application and hardware resource monitoring and wrote new plugins in Nagios to monitor resources.
* Experience with Atlassian JIRA installation, administration and maintenance.
* Installed various Jira plugins such as Jira client, Jira importer plugin, Jira Charting Plugin, the connector for Microsoft project and Jira Misc and Remedy ticket system.
* Custom fields. Migrated Jira across environments and worked on Jira database dumps.
* Developed unit and functional tests in Python and Ruby and managed the code migration from TFS, CVS and Star team to Subversion repository.
* Developed Python scripts to take backup of EBS volumes using AWS Lambda and CloudWatch.
* Used IAM to create new accounts, roles and groups which are engaged in enabling Lambda functions for dynamic creation of roles.
* Launched Amazon EC2 Cloud Instances using Amazon Web Services (Linux/Ubuntu) and configuring launched instances with respect to specific applications.

**Environment/Tools**: EC2, ELB, Cloud Front, Power Shell, CloudFormation, Elastic Cache, CloudWatch, Route53, Lambda, Dynamo DB, RDS, Terraform, Jira, Ansible, Bash scripts, Bit bucket, VPC, CloudTrail, IAM, S3, Elastic Search, SNS, SQS and SES.

**Cloud DevOps Engineer**

**Maximus - Reston, VA May 2016 – Jan 2018**

**Responsibilities:**

* Implemented AWS solutions using EC2, S3, RDS, EBS, Elastic Load Balancer, Auto-scaling groups.
* Architect and support AWS Private Cloud implementation.
* Support and configured all cloud services including AWS Direct Connect to On-Premise datacenter.
* Configure AWS Virtual Private Cloud to support application development and production. Ansible and Packer to build Jenkins master AMI. This includes Groovy to configure plugins configuration files and jobs deployed with DSL plugin, Ruby and Vagrant file to help with testing of that AMI and a Python script to help rotate old versions of the AMI.
* Performed Test Case Automation, Code Analysis, Code Reviews, Continuous Integration, Continuous Deployment using Team Foundation Server
* Perl scripts for build and release automation (such as variable expansion and extract the Build Forge Project Details by Using API).
* Design EC2 instance architecture to meet high availability application architecture and security parameters.
* Integrate existing performance tools with Jenkins for (CI/CD) as part of DevOps Ansible and Packer to build Jenkins master AMI. This includes Groovy to configure plugins.
* Connected continuous integration system (CI/CD) with Git version control repository and continually build as the check-in’s come from the developer.
* Focus on continuous integration and continuous deployment (CI/CD) and promote enterprise solution deployment assets to target environments.
* Designed end to end automation of infrastructure and continuous delivery (CD) of the applications by integrating cloud formation scripts, Jenkins, AWS and CHEF cookbooks and recipes.
* Automated web server content deployments via shell scripts. Coordinate with client/BA/design/dev/testing and performance teams for Continuous integration (CI/CD).
* Excellent experience in documenting and automating the build and release process.
* Experience in working on integrating unit tests and Code Quality Analysis tools like Cobertura, Junit and Check style.
* Integration of Automated Build with Deployment Pipeline. Currently installed Chef Server and clients to pick up the Build from Jenkins repository and deploy in target environments (Integration, QA, and Production).
* Implemented rapid-provisioning and life-cycle management for Ubuntu Linux using Amazon EC2, Ansible, Chef, and custom Ruby/Bash scripts.
* Experienced working with Ops Works for Chef Automation, Ansible and SQL Server
* Implemented Chef Cookbooks for OS component configuration to keep AWS server's template minimal.
* Written Chef Cookbooks for various DB configurations to modularize and optimize product configuration.
* Evaluating testing of Chef Recipes - Concept of Test-Driven Development for Infrastructure as a Code.
* Comfortable and flexible with installing, updating and configuring various flavors of UNIX and Windows.
* Documented all build and release process related items. Level one support for all the build and deploy issues encountered during the build process.
* Defined dependencies and plugins in Maven pom.xml for various activities and integrated Maven with GIT to manage and deploy project related tags.
* Automated deployment of builds to different environments using Jenkins.
* Implemented & maintained the branching and build/release strategies utilizing GIT.
* Responsible for writing the Release Notes, documenting all the useful info about the release, software versions, changes implemented in the current release, Defects fixed, Labels applied.

**Environment/Tools:** Jenkins, Maven, GIT, Chef, Putty, Shell Scripting, EC2, Elastic Load Balancing, Elastic Bean Stalk, ECS, Cloud Front, Cloud Formation, Elastic Cache, CloudWatch, Route53, Redshift, Lambda and Dynamo DB, Nagios, Terraform, Kubernetes, Docker, Tomcat, Jira, Python.

**Linux Engineer**

**Info builders - HYD, IN June 2014 – Dec 2015**

**Responsibilities:**

* Experience in implementing new processes and policies for build process involved in auditing.
* Used Chef for implementing Automated Application Deployment.
* Assisting developers to integrate their code with mainstream.
* Implementing build automation in Jenkins using Bash scripting for daily builds.
* Ensuring release to test environments by merging conflict code.
* Managing Nexus for Artifactory and dependency management systems.
* Performed hardware and software installations, upgrades, and maintenance, patch administration, kernel modification/upgrades, file system management, performance and security analysis and network configuration/tuning.
* Experience in designing and implementing continuous integration pipeline using Agile methodologies.
* Involved in building servers using jumpstart and kickstart in Solaris and RHEL respectively.
* Installation and configuration of RedHat virtual servers using ESXi 4/5 and Solaris servers using scripts and Ops Center.
* Performed package and patches management, firmware upgrades and debugging.
* Addition and configuration of SAN disks for LVM on Linux, and Veritas Volume Manager and ZFS on Solaris LDOMs.
* Configuration and troubleshooting of NAS mounts on Solaris and Linux Servers.
* Configuration and administration of ASM disks for Oracle RAC servers.
* Analyzing and reviewing the System performance tuning and Network Configurations.
* Managed Logical volumes, Volume Groups, using Logical Volume Manager.
* Troubleshooting and analysis of hardware and failures for various Solaris servers (Core dump and log file analysis)
* Performed configuration and troubleshooting of services like NFS, FTP, LDAP, and Web servers.
* Installation and configuration of VxVM, Veritas file system (VxFS).
* Management of Veritas Volume Manager (VxVM), Zetabyte File System (ZFS) and Logical Volume Manager
* Involved in patching Solaris and RedHat servers.
* Configured and maintained Network Multipathing in Solaris and Linux.
* Configuration of Multipath, EMC power path on Linux, Solaris Servers.
* Provided production support and 24/7 support on rotation basis.

**Environment:** Solaris 9/10/11, RedHat Linux 4/5/6, AIX, Sun Enterprise Servers E5500/E4500, Sun Fire V1280/480/440, Sun SPARC 1000, HP 9000K, L, N class Server, HP & Dell blade servers, IBM RS/6000, VMware ESX Server, LAN/WAN/NOC Administration, Systems Installation, Configuration & Upgrading, PowerShell, Linux Servers, VBScript, LAN/WAN, Oracle Databases, SQL, MYSQL, NOS Patches & Updates.