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**Professional Summary:**

* **Around 9 years** of experience in IT industry along with primarily working on **DevOps, AWS** Cloud infrastructure, deep experience on Cloud Implementation and Migration of Cloud services, Cloud security, Infrastructure as Code, Containerization/Orchestration, Configuration Management, CI/CD etc.
* Experienced in Configuring and Deploying infrastructure and applications into cloud using AWS services such as **EC2, EKS, S3, Lambda, API Gateway, RDS, DynamoDB, ELB, EBS, VPC, SNS, SQS, IAM, Route 53, Cloud Formation, Auto scaling, Cloud Front, Cloud Watch, Cloud Trail, Redshift, Elastic Beanstalk (EBS).**
* Worked on creating reusable **Terraform Modules** for AWS cloud Environments, actively took part in writing **Infrastructure as a Code (IaC)** in **Terraform, AWS Cloud Formation (CFT)** for AWS infrastructure deployment.
* Experience in using and writing **Packer scripts** in creating AWS AMI.
* Experienced in creation of **Ansible playbooks** to configure software installation and perform tasks.
* Worked on deploying **EKS** cluster with fargate and node groups.
* Worked on creation and customization of **helm charts** templates and standardizing them for application deployments.
* Involved in setting up CI/CD pipelines using **Jenkins, GitLab, Azure DevOps Board** and Configuration Management tools such as Ansible/Chef/Puppet and Docker containers for environment independence.
* Demonstrated expertise in crafting automation pipelines utilizing **Groovy scripting,** AWS CloudFormation templates, Terraform.
* Engineer, manage, and support source code control and binary repository systems such as **Bit Bucket, Git and SVN**.
* Took active part in scripting with **Python, Shell, and XML** to automate deployment process.
* Proficient in containerized deployments utilizing **Docker,** which includes working extensively with Docker images, Docker Hub, and Docker registries.
* In-depth understanding of Software Configuration Management (SCM) processes which include compiling, packaging and deploying of various applications.
* Experience working with log monitoring with **Datadog, AppDynamics and Dynatrace**.
* Efficiently crafted CloudFormation Templates (CFT) using **JSON** and **YAML** formats to construct AWS services, adhering to the **Infrastructure as Code** (IaC) paradigm.
* Extensive deployment expertise in expansive infrastructures, employing configuration management tools such as **Chef, Ansible, and Puppet.**
* Authored Chef Cookbooks and recipes to automate installation of Middleware Infrastructure components like **Apache** **Tomcat** and **JDK**.
* Experience in working with different build automation tools like Jenkins and Maven to achieve End-to-End Automation.
* Experience in Kubernetes to deploy scale, load balance and manage Docker containers with multiple name spaces versions and good understanding of Open Shift Platform in managing Docker Containers and Kubernetes Clusters.
* Worked with IAM service creating new IAM users & groups, defining roles and policies and Identity providers. Experienced in Trouble shooting, Backup and Recovery.

**TECHNICAL SKILLS:**

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| Cloud Services | Amazon Web Services: EKS, ECS, S3, LAMBDA, API Gateway, RDS, VPC, Route53, ELB, Cloud Watch, Cloud Formation, IAM, Dynamo DB, SNS, SQS, Kinesis, EC2, Redshift (Load balancer, Target Group, Autoscaling, Security Groups) |
| Containerization Tools | Docker, Kubernetes, EKS, ECS |
| Version Control Tools | Git, Bitbucket, GitHub, GitLab, SVN |
| Operating Systems | Red Hat Enterprise Linux (RHEL), Linux, Unix, Ubuntu, Windows |
| Build Tools | Maven, Gradle Sonar, ANT |
| Automation Tools | Terraform, Ansible, AWS CloudFormation, Chef, Puppet |
| CI/CD Tools | Jenkins, Git Lab, Azure Devops Board |
| Web Servers | Apache Tomcat, Nginx, Jetty |
| Database Technologies | DynamoDB, MySQL, PostgreSQL, MongoDB, AWS RDS, Oracle, DB2, SQL Server. |
| Scripting languages | Shell, Bash, Python, Groovy, YAML |
| Monitoring Tools | Splunk, ELK Stack, CloudWatch, Datadog, Nagios, Prometheus, Grafana, New Relic |
| Networking/Protocol | DNS, DHCP, Cisco Routers/Switches, NIS, NFS, WAN, SMTP, LAN,  FTP/TFTP, TCP/IP. |

**PROFESSIONAL EXPERIENCE**

**Client : Aviva Investors Chicago, IL**

**Project : Data Analytics Project (DAP)- Life**

**Role : DevOps Engineer**

**Duration: August 2021 – Present**

**Responsibilities:**

* Responsible for using AWS Console and AWS Command Line Interface for deploying and operating AWS services specifically **EC2, EKS, S3, Lambda, VPC , IAM , SNS, SQS, ELB, R53, Cloud Formation, Cloud Watch , ECS, RDS, DynamoDB**.
* Experienced in AWS infrastructure deployment using **Terraform** and **Ansible**.
* Experienced in **Packer** scripts and Ansible playbooks for creating custom AWS AMI to pre-package the software installation on the server.
* Designing **Jenkins** Pipelines with **Groovy code** and building the pipelines for infrastructure deployment.
* Experienced in creation of **Ansible playbooks** to configure software installation & perform tasks.
* Automated configuration management and deployments using Ansible playbooks and Yaml for resource declaration. And creating roles and updating Playbooks to provision servers by using Ansible.
* Experienced in writing **Python** Automation scripts
* Worked on deploying EKS cluster with fargate and node groups. Created Kubernetes cluster with objects like Pods, Deployments, Services and ConfigMaps 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.
* Worked on creation and customization of helm charts templates and standardizing them for application deployments.
* Worked on troubleshooting, rolling updates and rollbacks of the deployments using **Kubernetes**.
* Used Kubernetes to manage containerized applications using nodes, config maps, services and deployed application containers as a Pod's.
* Worked on creation of **AWS Security Groups** as virtual firewalls to control traffic reaching EC2 instances.
* Created alarms and notifications for EC2 hosts using **CloudWatch**, monitoring the health and performance of servers hosting both traditional and mobile application components.
* Implemented a 'serverless' architecture using **API Gateway, Lambda and Dynamo DB** and deployed the code from S3 buckets.
* Developed **Cloud Formation** templates to Automate the AWS Services VPC, Auto scaling and load balancing, Cloud Watch Alarms, ECS Cluster.
* Worked on **JIRA** for ticketing, defect tracking, and configuration of workflows, customizations, and plugins.
* Utilized automation tools like **Jenkins, Gradle, and SonarQube** for building and testing applications, ensuring code quality and reliability.
* Hands on experience in version control tool like **GIT**
* Handled AMI Refresh for Prod, Pre-Prod and Non-Prod environments on monthly basis, ensuring the Applications are uninterrupted and compliant.
* Handled OS patching for **RHEL** servers across all the Environments in Prod and Non-Prod by using Ansible. Worked on all the vulnerability activities raised within the team.
* Used CloudFormation Templates written in **YAML** to deploy infrastructure in the AWS cloud.
* Setup and configuration of Tomcat created multiple instances and deployment of war files.
* Working Knowledge of databases like **MySQL, RDS and DynamoDB**
* Good understanding of the principles and best practices of software configuration management (SCM) in agile, scrum and waterfall methodologies.

**Environment:** AWS (EC2, EKS, Lambda, ELB, RDS, S3, VPC, IAM, Cloud Watch, Cloud Formation, AMI, SNS, SQS, Auto Scaling, API Gateway, DynamoDB, Security Groups), Docker, Kubernetes, Python, Terraform, Packer, GIT, Maven, Jenkins, Ansible, Ant PowerShell, Shell Scripting, Linux, JIRA, Apache Tomcat,Prometheus, Grafana

**Employer : Infosys, India**

**Client : BASF**

**Project name: Agricultural Product of North America (APN) Data Platform**

**Role : Senior Software Engineer**

**Duration : Nov 2019 – August 2021**

**Responsibilities:**

* Loading data files into **Amazon S3** Bucket from on-premises server and from S3 to loading into **Redshift and PostgreSQL** databases using Lambda functions.
* Involved in automation the application by writing **python programs, docker file, Yaml scripts, shell scripts** and deploying in AWS by using Azure DevOps Board.
* Utilized Python Libraries like **Boto3** as AWS SDK.
* Experience in deploying **EKS** cluster and troubleshooting, and Cluster upgrades and node group upgrades. Worked for new HashiCorp Vault setup on EKS Cluster.
* Configured AWS IAM and Security Groups across both Public and Private Subnets within the VPC Managed network security through **Load Balancers, Auto-Scaling, Security Groups, and NACLs**.
* Configuration the tables in **MYSQL** to load the data in redshift and PostgreSQL.
* Scheduling the new jobs based on client requirements in **ECS**.
* Authored Ansible playbooks in **YAML** format from scratch, covering installation, setup, and troubleshooting procedures, and automated platform environment configurations.
* Migrated legacy applications from On-premises to AWS and Azure cloud environment.
* Wrote **Ansible playbooks** to install, configure and pairing process of clusters for Disaster Recovery management.
* Developed **Ansible roles** for automatic deployment and configuration of Linux servers for prod environments. Worked with an agile development team to deliver an end-to-end continuous integration/continuous delivery product in an open-source environment using Ansible and Jenkins
* Experienced in **Agile Methodologies** and SCRUM Process.
* Involved in running Multiple Tomcat Instances as Containerized App Servers using **Docker**.
* Designed, implemented and maintained Splunk log collection solution for the performance Engineering. Installed and managed monitoring tools like Splunk, Analyzing and reviewing the system performance tuning and network configurations, CPU utilization, memory profiles, disk utilization, network connectivity, system log files.
* Design, build and manage the ELK (Elastic Search, Log stash, Kibana) cluster for centralized logging and search functionalities for the App.
* Implemented Spring boot microservices to process the message into the Kafka cluster setup. And helped the QA and Production team to set up the Kafka cluster.
* Troubleshooting and monitoring of Third-party applications using **Splunk,** **Dynatrace** **and Cloud Watch** in the Amazon Web Services (AWS) environment.
* Created local, virtual repositories in Jfrog Artifactory and integrated with Jenkins.
* Involved in writing SQL queries to implement the related changes and debugged the build errors using SQL queries to make sure Database is not corrupted.
* Developed custom OpenShift templates to deploy the applications and to create the OpenShift objects built, deployment on figs, services, routes and persistent volumes.

**Environment**: AWS Lambda, CloudWatch, S3, IAM, VPC, Redshift, PostgreSQL, ECS, Kinesis, Python scripting, Kubernetes, Azure Devops Board, GitLab, Jenkins, Terraform, Kafka, JBoss Server, Maven, Splunk, Dynatrace, SonarQube, Jira, Shell Scripts, Docker Registry, Ansible Tower , Prometheus, Logstash.

**Employer: HCL Technologies, India**

**Client : Deutsche Bank**

**Project : Distributed Trade Engine (DTE)**

**Role : Software Engineer**

**Duration : Sep 2015 – Nov 2019**

**Responsibilities:**

* Played crucial role in deploying cloud platform content on AWS, utilizing **EC2**, **S3** and **EBS** services.
* Carried out tuning and optimized queries within **AWS** **Redshift** environment.
* Executed AWS cloud deployments for web applications, implementing monitoring through **CloudWatch** and utilizing **VPC** for network configuration management.
* Designed module driven AWS Infrastructure with **Terraform.**
* Set up **Elastic Load Balancers** alongside **EC2** instances within **Auto scaling** groups.
* Configured **IAM** user roles with associated user and group policies using **JSON.**
* Employed **AWS Lambda** to execute serverless functions and trigger code execution based on events from **S3** and **SNS**.
* Automated backups using shell scripts for Linux and PowerShell scripts for Windows to transfer data to an S3 bucket.
* Configured multiple **Jenkins** plugins to streamline workflow automation and enhance the efficiency of build jobs.
* Developed **Jenkins pipelines** and tasks to create comprehensive CI/CD pipeline within the organization.
* Set up build environment integrating with GIT and Jira to trigger builds using Web Hooks and

Slave Machines by integrating Docker container-based test infrastructure to Jenkins CI test flow.

* Developed **Terraform** scripts to provision EC2 instances, Elastic Load Balancers, and S3 buckets.
* Engaged in Infrastructure management through Docker Containerization and developed a Linux-based CLI automation framework using Python.
* Handled deployment of containerized applications on Red hat Open Shift cluster and designed a Continuous Delivery platform integrating Jenkins, Bitbucket leveraging Terraform for component composition.
* Converted existing **Terraform** templates to **CloudFormation** templates for deployment within **AWS** environment.
* Employed a Data Lake for the storage of relational data, encompassing operational databases and information sourced from line-of-business applications.
* Migrated build release automated pipeline from **Groovy DSL** based to Jenkins 2.0 pipeline plugin
* Setting up **JIRA** as defect tracking system and configured various workflows, customizations and plug-ins for the JIRA with GIT and Jenkins.
* Designed and developed **Chef Codebooks** to cater to various services and sites running on Jackson Hewitt.
* Automated infrastructure and provisioned Linux machines using bash script and Python AWS-SDK.
* Developed Perl and shell scripts for automation of the build and release process.
* System monitoring and remote connection management using telnet and SSH connections.

**Environment**: AWS Services (EC2, S3, Lambda, SNS, SQS, VPC, CloudWatch, IAM, ELB, Autoscaling, Cloud Formation) Python, SVN, GIT, TortoiseSVN, Chef, JIRA, VMware, Docker, Perl, Shell, SonarQube, SSH.