

# DevOps

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Result oriented DevOps Engineer with almost 13 years of relevant experience in managing cloud based technology & effectively handling configuration & deployment of infrastructure & services. Gained hands on experience in implementing core DevOps concepts by using a wide variety of tools & technologies

### Key Skills

OS	Linux, Windows
Scripting	Shell script
Languages	Python
Cloud	Amazon Web Services
IAAS	Terraform
Version Control System	Git
CI/CD	Jenkins, Gitlab CI, Azure DevOps, Apache Airflow
Configuration Management	Ansible, Chef
Containerization	Docker, Kubernetes
Binary Repo	Jfrog Artifactory, Nexus
Scalability	Karpenter, KEDA
Frameworks	Serverless Framework
Observability/Security/Quality	Acunetix 360, New Relic, Blackduck, Sonarcloud, Dynatrace, Kloudfuse, Elastic Stack, Prometheus, Grafana, Istio, Fluentbit

### PROFESSIONAL EXPERIENCE

August 2022–Present

#### CitiusTech, Pune

Technical Specialist – DevOps

#### Technology:

Terraform, Karpenter, KEDA, Fluentbit, Prometheus, Koudfuse, Gitlab CI, Apache Airflow, Azure DevOps Pipeline, AWS CloudFormation/Control Tower/SSO/CodePipeline/SAM/ECR/EKS

#### Role:

- Worked on AWS Control Tower to setup Landing Zone
- Used Terraform to automate new account provisioning and customisations
- Integrated AWS SSO with Azure AD as part of Identity solution
- Created permissions sets for various functional groups and users in AWS SSO
- Enabled security services and conformance packs in AWS Config for a secure Landing zone
- Worked on creating Azure DevOps pipeline for code sync up between Azure DevOps repo and AWS Code Commit
- Setup centralized Network foundation for AWS cloud organization with on-prem connectivity using Terraform
- Setup DNS resolvers for AWS Cloud Organization by integrating with on-prem DNS server
- Migrated an app from on-prem to AWS cloud with an automated solution to provision cloud infra using Terraform
- Automate serverless app deployment using AWS CodeBuild and SAM templates
- Write Python DAG scripts on Airflow to automate and run ML scripts for a project to deploy to on-prem servers
- Setting up Istio on EKS along with Authorization policies for enhanced security
- Setting up Gitlab CI pipelines to deploy micro-services to EKS using helm

- Setting up Node/Pod scaling on EKS using Karpenter/Keda
- Configured log shipping from EKS clusters for micro services using Fluentbit

*November 2019–August 2022*

### **Interra Information Technologies, Kolkata**

Tech Lead - DevOps

#### **Technology:**

Shell scripts, Python, Jenkins, Ansible AWX, Terraform, Serverless Framework, Elastic Stack, AWS Lambda/CloudFormation/EC2/S3/VPC/RDS/ECS/Route53/ElastiCache/CloudFront/CloudWatch/DMS/Dynamo DB/CodePipeline

#### **Role:**

- Provisioned Jenkins dashboard infra assets to cloud using Terraform
- Integrate Jenkins with GitHub and configure role-based access for better security
- Setting up Ansible AWX dashboard for Operations to run the ansible playbooks
- Worked on creating a Python cli tool based on Serverless Framework so that support team can perform day to day cloud operations as part of automation and security
- Integrating Ansible AWX with Cloudformation to provision all cloud infra assets for a serverless hosting solution
- Designed a Route53 latency based health check solution using cloud watch custom metrics and bash scripts for Ubuntu based Apache server
- Facilitated a data migration project from sql server on ec2 to RDS using AWS Data Migration service. All assets for the service was deployed using Terraform and then taken down when migration was over
- Wrote a python script to format and upload client certificate to redis
- Troubleshooting and provide support in resolving QA/Dev issues

*April 2019–November 2019*

### **CloudCover, Pune**

DevOps Engineer

#### **Technology:**

GIT, Shell scripts, Python, Jenkins, Gitlab CI, Ansible, AWS Lambda/CloudFormation/EC2/S3/VPC/VPN/RDS/Athena/ECS/ECR/CodeCommit/CodeStar/Dynamo DB

#### **Role:**

- Create and maintain fully automated CI/CD pipelines for code deployment using Jenkins and Bash scripts
- Wrote Python script for report generation as per client requirement
- Wrote Lambda function on AWS using Python to automate ec2 start and stop as part of cost saving
- Wrote a Lambda function for auto partitioning of Cloudtrail logs in S3 and store the state in Dynamo DB so that Athena can be used to run queries
- Writing Ansible playbooks to deploy changes to multiple instances/AMI creation
- Wrote a CI/CD pipeline for Gitlab runner using Ansible and CloudFormation templates to deploy to ECS containers
- Troubleshooting prod issues and providing cloud/infra support to clients

*September 2016–April 2019*

### **CitiusTech, Mumbai**

Tech Lead – Technical Support

#### **Technology:**

CenturyLink, Skytap, Docker, Docker-Compose, Chef, Jenkins, Shell scripts, Apache Tomcat, PostgreSQL, Jfrog Artifactory, HAProxy, Sonarqube, AWS CloudFormation/EC2

#### **Role:**

- Managing Linux servers and component provisioning. Handling configuration as well as deployment of infrastructure and services

- Actively contribute to the continuous improvement of development processes that enhance the performance and quality of deliverable. Got involved in designing and developing POCs as needed
- Create and maintain fully automated CI/CD pipelines for code deployment using Jenkins and shell scripts
- Setting up a Sonarqube server and integrating it with Jenkins pipeline
- Involved in a POC to automate the setup of Mirth channelling application with PostgreSQL DB to route HL7 messages using Chef
- Analyse stack trace errors with applications logs to determine whether the error is user-based or code-based
- Deploy and Smoke Test the latest version after Engineering Team completed their test and provided a stable build
- Provide administrative support and configuration changes for servers
- Using Chef create cookbooks to deploy software components to multiple nodes and ensure servers have the latest OS, security etc. versions that are compatible with the applications
- Review and troubleshoot build failures
- Write ACLs as part of security defects to effectively control access to resources and increase security as part of OS hardening
- Built and deployed Docker containers to break up monolithic app into micro services improving developer workflow
- Write Docker-Compose files to containerize multiple application components

*April 2013-September 2016*

**Travellex, Mumbai**

Senior Software Analyst

**Technology:**

Shell script, Apache Tomcat, Nagios, SQL Server, Oracle, Maven, Jenkins, GNUPlot

**Role:**

- Maintaining and Supporting Apache Tomcat Application Servers on Solaris platform
- Troubleshooting application server, databases and basic network configuration issues
- Coordinating with Development, Testing and Change Control Team for deployment activities and server patch upgrades
- Automating housekeeping and sysadmin activities on servers using Shell scripts
- Used GNUPlot utility on bash to create graphical report for viewing application health to be distributed among managers
- Developing custom reporting tools, setting up automated health monitoring and alerting for applications
- Writing Shell and Maven scripts to automatically configure integration and test environments, including deploying WAR files, stopping and starting Application Servers and processes and dynamically creating server profiles and defining resources
- Worked on a POC to setup Jenkins server with Maven build jobs providing a continuous, automated scheduled QA build environment
- Providing maintenance, support, disaster recovery and security for various applications and servers
- Eliminated extended downtime of network and processes by installing and configuring a Nagios server to monitor servers

*February 2011-April 2013*

**Larsen & Toubro Infotech, Mumbai**

Software Engineer

**Technology:**

Solaris 5/8, Oracle 9i/11g, Pro\*C, SQL, Shell script

**Role:**

- Undertook measures to migrate the Equity Application onto a new upgraded Infrastructure. The Database was upgraded from Oracle 9i to Oracle 11g. The application was moved from Solaris 5 to Solaris 8
- Managing 200+ Pro\*C files while automating and handling configuration. The deployment of codes and services using Shell scripts

- Developed Pro\*C Code from the stage of compilation of source code to testing of executable files on new environment
- Build the Pro\*C code base for deployment to Staging server and then to Prod
- Performing fixes to the Pro\*C files during Test
- Distinctively developed the core-java tool to compare the schema from two different versions of databases along with automation using shell script for file comparison and report generation to cut down on manual efforts
- Write Bash script(Makefiles) and gcc for Pro\*C code build
- Creating and running automated build to discover new obsolete features earlier, reducing bug fix time
- Shell scripts to print differences as well as similarities onto a log file thus validating the migration of the database from one environment to another and facilitating the testing phase of the project
- Deftly executed the entire batch cycle in parallel with the Live cycle to ensure that all was in place before handing over to support

## **Education**

**Bachelor of Engineering, Information Science [August 2006-July 2010]**

**Visvesvaraya Technological University, Belgaum, IN**

**Percentage: 67%**

## **Certifications**

- **AWS Solutions Architect - Associate [Validation Number 3L51WVDC1JRE1P59]**
- **Red Hat Certified Engineer (RHCE) [2015-09-30 - CERTIFICATE NUMBER: 150-154-482]**
- **ITIL Certified [Registration number 5342792.20391665]**