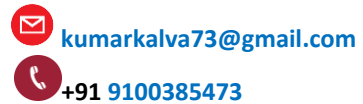


Kumar Kalva

DevOps Engineer



Objective:

I am passionate about software and love to innovate and explore new technologies, always ready to accept challenges and make the organization missions to be achieved on time.

Professional Experience:

Having total 3+ years of experience in the IT industry, hands on experience with **DevOps, AWS, Linux and Windows, Jenkins, Git, GitHub, Ansible, Docker, Nagios XI, ELK, Jira, MY SQL, Terraform, Shell Script, Kubernetes.**

- Worked as a Software Engineer at **TCS (Hyderabad)** under the payroll of (**IDC Technology PVT. LTD**) from **March 2022** to till **Jan 2023**.
- Worked as a DevOps Engineer in **AGS Infotech Pvt Ltd (Hyderabad)** from **Jan 2020** to **March 2022**.

Professional Summary:

- Proficiently utilized various AWS services such as AWS Route53, **S3, VPC, EC2, AWS Lambda, AWS API Gateway, IAM, RDS, ELB, ECS, ECR, EKS, AWS CLI, Auto scaling, CloudFormation.**
- Implemented full **CI/CD pipelines** with **Jenkins** to ensure that every developer commit undergoes a standardized software lifecycle process and thorough testing before being deployed to production.
- Utilized the Packer tool to create automated backups of **AMIs**.
- Utilized **AWS Identity and Access Management (IAM)** to create user accounts and groups within the AWS environment. Configured **IAM policies** at the group level to define permissions and access controls for each group.
- Utilized the **AWS Systems Manager** service to automate patching activities seamlessly and without any downtime.
- Implemented high availability and fault tolerance in the infrastructure by creating load balancers (**ELB**) and utilizing **Route53** with failover and latency options
- Implemented the network architecture on **AWS**, including **Virtual Private Cloud (VPC)**, subnets, Internet Gateway, Route Table, and NAT setup.
- Utilized **Terraform** to design and deploy infrastructure resources.
- Experienced in **source control management** concepts such as branching, merging, tagging and accessing control to the repo's using version control system tools like **GitHub, Bitbucket & GitLab**.
- Installed and configured the **Percona** application for database monitoring.
- Developed a set of **automation scripts** to **streamline** various processes and tasks.
- Good Experience in **containerization** tool **Docker** and configuring the customized Docker containers and creating **docker files** for different environments.
- Utilized the **ELK stack** to log and index all activities, enabling seamless querying of data through **Kibana**.
- Experienced in development, execution and maintenance of **shell scripts** to automate application deployment.
- Successfully handled the installation and configuration of **PostgreSQL, MySQL, MongoDB** servers (Linux), ensuring seamless database operations.
- Working experience in taking **snapshots** of the EBS Volumes.
- Experience of configuring **auto-scaling, Load Balancers** to handle the load on servers.
- Experienced in project management and issue tracking tools like **JIRA & Service Desk**

Technical Skills:

Version Control Tools	Git, GitHub, Bitbucket
Configuration management Tools	Ansible
Cloud Computing	AWS
AWS Cloud Services	VPC, EC2, IAM, RDS, EBS, S3, ECS, ECR, Auto Scaling, AWS CLI, CloudFormation.
Containerization Tool	Docker, AWS-ECS, Kubernetes
Languages	Shell Scripting

Infrastructure as Code Tools	Terraform & Ansible
CI/CD Tools	Jenkins
Monitoring Tools	Nagios, ELK Stack (Elasticsearch, Logstash, Kibana)
Databases	MY SQL, PostgreSQL, MongoDB.
Ticketing Tools: Bug Tracking	Jira, ServiceDesk
Operating Systems	Linux, RHEL, Ubuntu, CentOS, Windows

Professional Experience:

Project-1:

- Worked as a **DevOps Engineer** at **TCS (Hyderabad)** under the payroll of (**IDC Technology PVT. LTD**) from (**March 2022** to till **Jan 2023**).

Project Summary:

Client : TCS (Mar 2022 – Jan 2023)

Role : DevOps Engineer

Project : OLIO-TCS

Technologies: Git, GitHub, Bitbucket, AWS, Jenkins, Linux, Ansible, Docker, Nexus, Apache, Nginx, ELK (Elasticsearch, Logstash, Kibana), Kubernetes, Graphite, Grafana, Signal FX, Groovy Script, shell scripting.

Project Description:

Where it is the is the largest provider of fixed-line, broadband and mobile services as per security policies it is recommended to maintain Networks platform for separately. This project is to setup the Networks environment by installing and configuring multiple applications used by the Networks platform.

Responsibilities:

- Installed **Jenkins**, created build jobs, set up distributed builds using Jenkins **master/slave** concepts, plug-in installation backup using **Jenkins**.
- Involved in designing and developing the architecture of the **AWS** infrastructure, leveraging services such as **Amazon EC2, Amazon S3, and Amazon Elastic Load Balancing**.
- Created user/group accounts and attached policies to user/group accounts using **AWS IAM** service and written **IAM policies** for restricting developers to AWS services
- Implemented **Nagios XI** from end to end for comprehensive infrastructure monitoring and alerting.
- Developed and maintained automated **CI/CD Pipelines** for code deployment using Jenkins.
- Implemented and enabled audit logs for both servers and **Jenkins** to track user-level activities.
- Configured mirroring between two different **Git repositories** using pull and push mirroring approach.
- Configured **Gitlab** by creating repositories and importing repositories from different Git platforms.
- Configured watchers in **ELK** to trigger **email alerts** and set up file beat agent in servers for sending out logs from a particular path
- Set up and maintained regular backup and restore procedures for **databases**.

Professional Experience:

Project-2:

- Worked as a DevOps Engineer in **AGS Infotech Pvt Ltd (Hyderabad)** from (**Jan 2020** to **March 2022**).

Project Summary:

Client : UNISYS / HITACHI (Jan 2020 – March 2022)

Role : Associate DevOps Engineer

Project : EBIS, worked on multiple projects with developers and QA teams to implement and administer DevOps solutions.

Technologies: AWS, Amazon EC2, S3, RDS, VPC, ELB, EBS, ECS, ECR, Cloud Formation, IAM, Jenkins, Ansible, Docker, Git, GitHub, GitLab, Maven, Nagios XI, ELK, SonarQube, PostgreSQL, MongoDB.

Project Description:

Enterprise biometric information System (EBIS) is a biometric based application used by Australian government. this is a multi-factor identity management and authentication measures, which is one of the most accurate biometric identity

management systems in the world. Employing facial and fingerprint recognition algorithms developed by EIDEMIA, the system will ensure safe and efficient visa and immigration control processing to further enhance the security of Australia's borders and facilitate legal migration.

Responsibilities:

- Created user/group accounts and attached policies to user/group accounts using **AWS IAM** service and written **IAM policies** for restricting developers to AWS services.
- Deployed **AWS Lambda** functions to automate the creation of backup **AMIs** and scheduled cross-region backups with a defined retention period.
- Used **Ansible** for patching of **Linux servers**, Configuration deployments, code deployments and roll back.
- Worked on **Jenkins pipeline** as a code model of setup and used **groovy scripts** to automate the pipeline setup.
- working with **GIT and GitHub** - Created git Repositories, git branches, git Tags and merging the source code between different git branches & Providing access permissions to the developers over git branches.
- Used **Ansible playbooks**, recipes, roles, run list to deploy web applications, application servers and vendor applications.
- Setup **ELK stack** in the cloud for application and infrastructure log monitoring.
- Worked on **AWS Backup** service to automate backups of **RDS, EC2** instances based on tags and copied backups to cross-regions.
- Used **Jenkins** for **continuous integration (CI)** and for End-to-End automation of all build and deployments.
- Configured and maintained **Nagios XI** for **monitoring servers** and sending email alerts.
- Successfully handled the installation and configuration of **PostgreSQL, MySQL, MongoDB** servers (Linux), ensuring seamless database operations.
- Performed **day-to-day** tasks and actively participated in deployment activities.

Educational Summary:

- Bapatla Engineering College, Bapatla.
B. Tech, Mechanical Engineering 2015-2019
65.42%
- Sri Pratibha Junior College, Ongole.
Board of Intermediate – AP (Class XII) 2013-2015
87.5%
- Z.P.H School, Kakarla.
Secondary School Certificate (Class X) 2012-2013
GPA:8.0/10

Declaration:

I hereby declare that the above-mentioned information is correct up to my knowledge and bear the responsibility for the correctness of the above-mentioned particulars.

(Kumar Kalva)