

Israrul Haque

[Certified Kubernetes Administrator \(CKA\)](#)

DevOps and Security Engineer

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14 Sep 1992

Indian

English, Hindi, Bengali, Arabic

EXPERIENCE

- **Goals101 (AI-based FinTech) - DevOps and Security Engineer**

Dec 2019 - present

- DevSecOps Engineer with Architecture mindset.
- Design and develop highly available and scalable infrastructure on Kubernetes.
- Design and develop solutions for cloud security, secrets management.
- Playing a key role in cost optimization and architecture review activity.
- Configure and manage different versions of self-managed Kubernetes and EKS across multiple environments.
- Renew the certificate of Kubernetes cluster.
- Manage stateful applications on Kubernetes - Elasticsearch, Hadoop, Clickhouse, MySQL, PostgreSQL, etc.
- Configured and managed airflow on Kubernetes.
- Manage deployments, daemonsets, configmap, secrets, etc.
- Created different sets of permissions for users using ClusterRole, Role.
- Applied network policy on few environments with Kubernetes network plugins such as cilium, weavenet.
- Configured Cluster autoscaler and hpa across all environments.
- Create Helm charts from scratch for applications.
- Configured logging system EFK (Elasticsearch Fluent bit Kibana) for applications.

CERTIFICATION

[Certified Kubernetes Administrator \(CKA\)](#)

[Red Hat Certified Engineer \(RHCE\)](#)

SKILLS

Containers: Kubernetes, Docker, Helm, AWS EKS

Cloud Services: AWS - EC2, VPC, Lambda, CloudFront, Route53, IAM, RDS, DynamoDB, S3, WAF, Load Balancer, AutoScaling, Launch Template

DevOps Tools: Jenkins, Ansible, Packer, Terraform, CloudFormation, Gitlab, Github, Bitbucket, Fluent-bit

Network and Security: AWS CloudFront, AWS Route53, AWS WAF, Wazuh

Compliance and Governance: PCI DSS, SOC2 TYPE2, ISO27001

HIDS and NIDS: Suricata, OSSEC

High-level language: Python, Node.js

Scripting: Shell, Python, Groovy

Database: PostgreSQL, MySQL, Clickhouse

Monitoring: Prometheus, Grafana, Nagios

Proxy Server: Nginx, Apache

Data Platform: Elasticsearch, Hadoop

- Created and configured Ingress for different endpoints.
- Configured blackbox exporter operator in Kubernetes for endpoints probing.
- Individual contributors of cost optimization activity where I have reduced the size of Elasticsearch cluster, Hadoop cluster, run applications on spot instances, segregated autoscaling groups for applications, calculated metrics to choose right instance types, etc.
- Created a hadoop alert system using python.
- Created a custom scaler using python to scale Kubernetes deployments and statefulsets.
- Created and managed self-managed kubernetes cluster using Terraform.
- During provisioning of Kubernetes infrastructure we use Ansible for hardening and Packer to build images.
- Create users, tables, databases in MySQL, PostgreSQL and grant read or write accesses.
- Created Ansible playbook for sftp servers provisioning.
- Goals101 is a FinTech company hence I have individually configured the environment as per scope of PCI DSS, SOC2, ISO27001, etc.
- Repetitively, we do the Vulnerability and Penetration Testing (VAPT) for the production environment.
- Created IAM policy for MFA and VPN IP restriction.
- Added whitelisted Ip addresses in Kubernetes Ingress.
- Contributed in the process of Source Code Review (SCR).
- Configure and manage the SIEM tool such as Wazuh.
- Created procedural documents for different processes.
- From scratch created and configured different AWS accounts such as UAT, QA, Security, etc. using Terraform and Kubernetes.
- Created Jenkins pipeline to deploy applications on Kubernetes.
- Created Jenkins pipeline with custom parameters for Maven test.
- Updated existing Jenkins pipeline to promote the docker

OS: Ubuntu, RedHat, CentOS, Amazon Linux

Project Management Tools: JIRA, Confluence, CRM, etc.

Virtualisation: KVM

EDUCATION

- Al-Falah University, Faridabad (Master of Technology)
2018 - 2020
- Indian Institute of Engineers (IEI), Kolkata (BTech in Computer Science and Engg)
2014 - 2017
- Delhi Polytechnic, Delhi (Diploma in ECE).
2009 - 2012
- HBSE board — 10th
2008

images from one env to another.

- Developing single click deployment process and scripts.
- Created solutions for the remote development teams to improve productivity and reduced dependency on DevOps.
- Setup and created dashboards on grafana to be used as a central monitoring solution.
- Setup and configured RDS instance for applications.
- Backup and restore the data of MySQL, PostgreSQL, Elasticsearch, Hadoop, Clickhouse, etc.

- **Freelancing (Self Employed) — DevOps Engineer**

Jan 2018 - Dec 2019

- Taught AWS solution architect and DevOps as an instructor with UST Global and Edureka/Intellipaat (well known e-learning platform).
- Created AWS CloudFormation template in JSON and YAML to provision EC2, AutoScaling Group, RDS, VPC, Subnets, NACL, Security Groups, etc.
- Created Lambda functions using python e.g. start and stop ec2 instances in autoscaling group, aws ssm inventory to bucket, create ebs snapshots of volumes tagged with specific key and value, elastic Ip attach, create iam user, multiple, resource auto tag, create vpc, update azure app manifest, etc.
- Deployed applications using AWS DevOps services such as codebuild, codedeploy, codepipeline, codestar, elasticbeanstalk, etc.
- Created Ansible playbooks for different use cases - deploy apache services on ec2, jvm kill, etc.
- Create Jenkinsfile to deploy application on Azure Cloud
- Setup and migrated deployments to Kubernetes.
- Deployed multiple services with Helm and Docker compose.
- Managed CICD across DevOps and Data Platform.

- **Tata Consultancy Services (IT) — DevOps Engineer**

May 2016 - August 2018

- **Project: EDF Energy**

- Automated operational tasks and infra provisioning with Python, Shell and Ansible.
- Orchestrated infrastructure deployment with Terraform and Cloud Formation.
- Configured and Installed highly available Jenkins using Chef.
- Created Jenkins pipeline to automate the creation of multiple AWS accounts with all required resources of a project.
- Configured Cloudtrail and Config using cloudformation.
- Designed and built compliance policies for production and staging environments with python scripts and cloud custodian.
- Built and automated the process of Golden AMI as a patch management solution with Ansible and AWS Inspector.
- Designed and built the database containing CIDR of VPC and Subnet for auto-creation through Jenkins.
- Designed and automated infrastructure deployment of multi-account infrastructure (AWS) with Jenkins and other DevOps tools.

- **HCL Infosystems (IT) — Cloud DevOps Engineer**

Oct 2012 - April 2016

- Created AWS vpc, subnets, cloudwatch alarms, rds instances, autoscaling group, load balancer, iam user, iam role, iam policy, cloudtrail, etc.
- Installation of configuration management tools e.g. Ansible.
- Created playbooks with Jinja templates to deploy applications and databases using ansible.
- Create shell scripts to automate different tasks such as backup and restoration.
- Configured monitoring software like Nagios.
- Installation of new servers using kickstart.
- Scheduled shell scripts to execute daily and weekly tasks.
- Red hat package and patch management using rpm and yum.

- Configured Linux services like LVM, NFS and Disk management.
- Fault toleration using RAID configuration.
- Providing internet access using Squid proxy.
- Setting permissions using chown, chgrp, setfacl, etc.
- Configured and maintained DNS services on a Linux server.