

MD ABDUL MANNAN BHUIYAN

Sr. Cloud Engineer at Spring Rain Pvt. Ltd
Ex. Cloud Infrastructure Engineer [Gigalogy , Japan]



LinkedIn: <https://www.linkedin.com/in/mohammad-abdul-mannan-bhuiyan/>

Mobile/WhatsApp: (+880) 1833314366

E-mail: mash.bhuiyan@gmail.com

Cha -120, Falani Garden, Uttarbadda
Dhaka, Bangladesh

OVERVIEW

I am a **Deployment Automation Consultant**, expert on **AWS, Azure, GCP, CI/CD** (GitHub action, GitlabCI, Jenkins) microservice orchestration tools (Docker, Kubernetes), Infrastructure as Code (CloudFormation, Ansible, and Terraform), Scripting Language (Bash, Python), GitOps Tools (**ArgoCD**)

- Extensive use of Docker, Kubernetes, **AWS** (EKS, ECS, **ECS Fargate**, EC2, VPC, ECS Fargate, EKS, S3, EBS, Route53, Lambda, SES, RDS, AMI, CloudWatch), **Azure (AKS, Azure DevOps, Azure VMs, Azure Monitor, Azure Container Apps)**, **GCP**, Jenkins, Ansible, Terraform, Ngnix, SonarQube, DynamoDB, PostgreSQL, Python & Bash Scripts
- Spun up Linux (RedHat, CentOS, Ubuntu) and Unix/MacOS. I have knowledge on private Cloud with KVM /ESXi/ Hyper-V
- Extensive use of GitHub, GitLab, Artifactory, JIRA, ClickApp, Confluence, Redmine, Slack, Microsoft Teams, Discord.

EXPERIENCES

Spring Rain Pvt. Ltd / Sr. Cloud Engineer

January 2024- Continue

- Establish a Kubernetes Cluster with **AWS EKS** for Higher Environment
- Provision AWS infrastructure using **Terraform**, leveraging infrastructure as code principles for consistency and repeatability.
- Collaborate with cross-functional teams to design scalable software services that leverage cloud infrastructure effectively.
- Configure **CI/CD** pipelines for server technologies using tools like **Docker, Git, GitHub Actions, Gitlab** and **Jenkins** to automate the deployment and delivery processes.
- Implemented monitoring using **Prometheus, Grafana** and **Cloudwatch**, also log analysis tools **ELK**
- Deployed **Docker Swarm** cluster on bare metal server.
- Manage the configuration of production systems ensuring they are optimized for performance, reliability, security, and cost-effectiveness.

Gigalogy / Cloud Infrastructure Engineer

September 2022 – December 2023

- Design infrastructure architecture and implement **ECS Cluster on AWS** for AI Project which is based on Python. Write **laC** code using **Terraform**
- Define **AWS Cloud Architecture** and implement **HA Cluster** using **EC2** and Configure **Elasticsearch** and **RDS Cluster** for 3DPC project which is based on NodeJS.
- Simplify the administration of Linux systems using tools like **Cockpit**.
- Utilized **NVIDIA CUDA GPU-enabled** instances to accelerate compute-intensive applications to significantly reduce training times.
- Implemented production and staging deployments using CI/CD tools, including **GitHub Actions** and **CodePipeline**.
- Design and Deploy 3DPC Application on **AWSCloud** - ECS **EC2** and DevOps pipeline
- Managed and Optimized **Cloudflare** settings for enhanced website performance and security.
- Collaborated with development teams to streamline CI/CD workflows using **CloudFlare Pages**

BJIT Ltd. / Cloud and DevOps Engineer

November 2021 - August 2022

- Worked with Docker, Kubernetes, Automation - CI/CD [**GitHub action, Gitlab-CI, Jenkins**], JMeter (Load Test), established multi-node cluster to manage staging build and test automation pipeline.
- Implemented **ELK (ElasticSearch, Logstash, Kibana dashboard)** monitoring tools.
- Configured and deployed applications and **CI/CD** pipelines, blue/green and canary drops
- Worked on application staging deployment infrastructure using **Terraform, Python**.
- Extensive use of MongoDB, **AWS (IAM, VPC, EC2, ECR, ECS, EFS, S3, SSM, RDS, ASG, ALB, DynamoDB, Lambda, Api Gateway, CodePipeline, SQS and more)**, GitHub action.
- Utilized Git extensively and employed a self-hosted GitLab instance for storing and managing infrastructure code.
- Implemented security measures using AWS security tools, including **WAF, AWS Inspector** and **Secret Manager** to safeguard applications and infrastructure against vulnerabilities and threats.

SKILLS

- Containerization Orchestration (Docker, **Kubernetes**)
- Programming Language / Scripting (**Python, Bash**)
- CI/CD (**GitHub action, Gitlab-CI, Jenkins**) Pipelines
- Database (MySQL, PostgreSQL, Redis)
- Message Broker & streaming (**SQS, SNS, Apache Kafka**)
- Virtualize Technology (**KVM, ESXi, Hyper-V**)
- Amazon Web Service (AWS)** [IAM, VPC, EC2, **ECS Fargate**, Route 53, S3, ELB, Code [Commit / Build / Deploy / Pipeline], CloudTrail, Auto Scaling, Service SSM, KMS, Certificate Manager, **LightSail**]
- Azure** (AKS, Azure DevOps, Azure VMs, Azure Monitor, Azure Container Apps)
- Infrastructure as code [**Terraform, Ansible**]

CERTIFICATIONS

Microsoft Certified:

- [AWS Certified Solution Architect Associate](#)
- AWS Cloud Practitioner

Training:

- Red Hat Certified Engineer (RHCE)
- Red Hat Certified System Administrator (RHCSA)
- Infrastructure as a Code (Terraform)

EDUCATION

BSc inCSE / 2006 - 2010

Stamford University,

Dhaka, Bangladesh

ENGLISH PROFICIENCY - Professional

E. B Solutions Ltd./ Deputy Manager

February 2020 - October 2021

- Designed Cloud infrastructure and implemented **containers-based deployment** for production.
- Design and implement production and test infrastructure with docker orchestration (Docker Compose, ECS).
- Implementing containerization strategies to facilitate agile and portable application development.
- Implement strategies to reduce expenses by 30% through optimize resource allocation.
- Optimize network, compute, and storage systems for performance and cost efficiency.
- Migrate servers, databases, and applications to public Cloud.
- Ensure disaster recovery, high availability, and cost optimization
- Build a Private Cloud with for Development & Testing environment

E. B Solutions Ltd. / Senior Operation Engineer

January 2016 - December 2019

- Implemented team strategies for SDLC automation, configuration, and release management.
- Linux system administration and optimization focus on Centos/Ubuntu, Apache, nginx, DNS, VPN, Email-Server, Proxy, VSFTPD etc.
- Analyzing the requirements, networking architecture design with components of On-prem Cloud, MySQL Cluster for monitoring subsystems, Nagios core, Zabbix, SNMP, Cacti, Syslog have been used.
- Lead a team with 8 people who are assigned to vigilance the DataCenter & application.
- Monitor and respond to security threats, devising detection and mitigation strategies.
- Provide technical guidance and opinions on IT project planning and implementation.
- Document system configurations, deployments, and share knowledge within the team.

E. B Solutions Ltd. / Operation Engineer

August 2012 - December 2015

- Collaboration with cross-functional teams to design and implement solutions that meet business needs.
- Manage on-premises data center, hardware and software configurations
- Install, configure, and maintain Redhat/Centos and Windows servers
- Provide technical support to clients and document technical procedures for projects.
- Management and administration with vendors for IT projects.
- Configuration of hardware and software including fingerprint devices, servers, and IVR.
- Lead the IT department along with 5 team members. A hassle-free dev & testing environment was provided to engineers by establishing a local data center. Designed a fully automated backup system for the development servers into two regions for data fail-safe.