

# Balakumaran T

[www.bkbala3710.in](http://www.bkbala3710.in)

**AWS Cloud Engineer** - AWS | Terraform | CI/CD | Docker | Jenkins | Git | Kubernetes  
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## SUMMARY

AWS Certified Cloud Engineer with 2.9+ years of experience in designing and deploying secure, scalable, and cost-effective cloud architectures. Skilled in VPC, S3, EC2, SNS, ALB, ASG, EFS, RDS, DynamoDB, IAM, CI/CD, and Infrastructure as Code using Terraform. Experienced in SIT and UAT deployments via CodeDeploy and automating CodePipeline with GitHub. Proficient in cloud monitoring with CloudWatch and optimizing resources for cost and performance. Seeking AWS Cloud Engineer or AWS DevOps roles.

## SKILLS

**AWS Cloud:** AWS(EC2, Load Balancer, Auto Scaling, VPC, SG, NACLs, Route53, CloudFront, ACM, S3, EFS, IAM, SNS, SQS, RDS, CodeDeploy, CodePipeline, CloudWatch, CloudTrail, Parameter Store, NAT, IGW, VPC Peering, VPC Endpoints, DynamoDB, Lambda, EKS)      **IaC:** Terraform      **Monitoring:** CloudWatch  
**DevOps:** Jenkins, Docker, Kubernetes, Ansible(Basics)      **Scripting:** BASH      **Version Control:** GitHub

## WORK EXPERIENCE

### AWS Cloud Engineer

**Cognizant | June 2023 - Present**

**Client:** Chubb Insurance (Global Insurance Company)

- Designed and deployed scalable VPC architectures with **Public & Private Subnets**, **NAT gateway** and **Application Load Balancers (ALBs)** across multiple availability zones.
- Deployed and managed **Bastion Hosts** for secure EC2 access.
- Configured **Dynamic Auto Scaling** for EC2 instances to optimize performance and cost.
- Managed **Monolithic Application** deployments on **AWS EC2** instances via CodeDeploy & CodePipeline.
- Deployed **RDS** instances with high availability configurations.
- Mounted **Elastic File System (EFS)** across EC2 instances for scalable shared storage.
- Implemented **S3 bucket policies**, **lifecycle rules** and permissions for secure and cost-optimized data management.
- Created and managed **IAM users**, **groups** and **policies** following least privilege access and security best practices.
- Implemented **Jenkins Multibranch Pipelines** for automated **UAT - Infra Deployment**.
- Configured **Lambda-based Email triggers** and integrated Lambda with various AWS services.
- Configured **CloudWatch alarms** for proactive monitoring and issue detection.
- Designed **Terraform** scripts for consistent and automated **AWS Infrastructure provisioning**.
- Configured **Security Groups**, **NACLs** and **Route tables** to ensure secure & efficient traffic flow within VPCs.
- Deployment of 3 tier frontend & backend Web application via **AWS CodeDeploy & CodePipeline** from Github (CI/CD). Configured **AWS Cross Account limited** access to a specific services.
- Enhanced **System Availability** by deploying solutions across **3 AZs**.
- Reduced cloud costs by **25%** using optimized **S3 lifecycle policies**.
- Managed infrastructure versioning and collaboration using **Terraform** with remote backends like **S3** and state locking using **DynamoDB**.

### GENC - Project Internship

**Cognizant | Jan 2023 - May 2023**

- Trained in AWS services EC2, S3, IAM, VPC, RDS and DevOps tools Git, Jenkins and Terraform. Automating infrastructure and deploying scalable cloud applications through real-time project simulations.

## CERTIFICATIONS

- AWS Certified Solution Architect Associate (SAA-C03)**

## EDUCATION

**SASTRA Deemed to be University - Thanjavur, Tamilnadu, India**  
Bachelor of Technology (B.Tech) | 2018 – 2022

## PROJECTS

- Highly available and scalable three tier architecture (CI/CD) - Web App
- AWS Infra - deployment pipeline using Jenkins & Terraform