

Aswanth Rajan
Senior Cloud Engineer
Email ID: aswanth97r@gmail.com
Contact No.: +65 98962029
LinkedIn: [linkedin.com/in/aswanthrajan](https://www.linkedin.com/in/aswanthrajan)
Website: aswanth-r.github.io/aswanth/

ABOUT ASWANTH

Aswanth is a Senior Cloud Engineer with 5+ years of experience in Managing Cloud IaaS (AWS), Migration Activity, Customer Relationship Management, Solutioning, Design analysis & Cloud implementation. Aswanth has excellent capability of collaboration, communication and reporting to senior stakeholders.

PROFESSIONAL EXPERIENCE

Cloud Security Engineer at Virtusa Singapore. (Oct 2024 – Present).
PS Engineer at Cloud Kinetics Singapore with 2 years of experience. **(Oct 2022 – Oct 2024).**
Cloud Engineer at Cloud Kinetics with 3 years of experience. **(Oct 2019 – Oct 2022).**

Role and Responsibilities:

- Having 5 Years of Experience in AWS, Devops, Micro services, & Linux.
 - Strong familiarity with native cloud services and landing zone design.
 - Experience in Infrastructure as Code platform and automation solutions.
 - Experience in database migrations with minimal downtime
 - Assisted high profile Enterprise customers to resolve critical issues.
 - Perform a Well-Architected Framework for customer workload in AWS and ensure its secure, high-performing, and resilient.
 - Participate in technical meetings with potential clients to explore client demands and offer technological solutions that address those objectives while staying within cost restrictions.
 - Designed & implement serverless solution architecture for migrating the application from Datacenter to the cloud.
 - Designed & provisioned AWS resources such as network, compute, databases, and security depending on the needs based on the well-architected framework.
 - Good knowledge of programming concept, OS related issues, Server configuration and builds and release process.
 - Good knowledge of Kubernetes infrastructure and services.
 - Hands-on Experience in container technology like Docker.
 - Conducted account level audit scan using prowler tool and remediated all the checkpoints which follows the guidelines of CIS AWS Foundations Benchmark, GDPR and HIPAA.
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TECHNICAL SKILLS

- **Cloud Platform** – AWS.
 - **Deployment Tools** – Terraform, CloudFormation.
 - **Orchestration** – Kubernetes, EKS.
 - **Database** – MySQL, PostgreSQL, MSSQL.
 - **Webserver and Application** – Apache, Nginx, Tomcat and WordPress.
 - **Devops Tools** – Git, Docker, GitLab, Github Actions, AWS CodeDeploy, AWS CodeBuild
 - **Scripting** – Python, PowerShell, Bash and AWS CLI.
 - **PaC** – Hashicorp Sentinel, Checkov.
 - **Monitoring Tools** – Cloudwatch, Kibana
 - **Managed Services** – Risk management, Backup & Monitoring operations.
 - **Server Administration** – Linux & Windows platforms
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Certifications

- **AWS Certified Database – Specialty**
- **Certified Kubernetes Administrator (CKA)**
- **AWS Certified Solutions Architect – Associate**
- **HashiCorp – Terraform Associate**

PROJECT

Infrastructure Designing for a Government Agency(Singapore)

- Designed and Implemented secured BIM Platform in AWS GCC cloud.
- Deployed a secure Intranet serverless platform using Terraform(IaC).
- Created GitLab Pipeline to deploy the Terraform code using OIDC Provider Role
- Created GitLab Pipeline to build and push the container images to ECR.
- Implemented the lambda function to scan the s3 bucket for malicious file using trend micro.
- Implemented the lambda function running on python with ApiGateway to forward the URL request to squid proxy server.
- Configured the Squid proxy and deployed in ECS Fargate Container to restrict the domain traffic.
- Configured the Nginx reverse proxy and deployed in ECS Fargate Container for FQDN routing to on-prem systems
- Deployed the ElasticSearch servers for logging and monitoring.
- Providing the best solution in terms of cost and performance.

Infrastructure Designing for one of the leading Bank (Singapore)

- Migrated the On-prem OpenShift application to cloud securely using Direct connect.
- Partnered with AWS Proserve team and designed a secured architecture based on existing on-premises infrastructure.
- Automated the deployment of Kubernetes on AWS through IaC (Infra-as-a-code) Terraform.
- Scanning the Terraform code using Checkov tool and remediated all the findings in code level.
- Implemented a highly secured fully private EKS Architecture with Compliance to CIS benchmark
- Automated the deployment of addons including third party addons using helm charts without any access to the outside network.
- Implemented the high level logging and monitoring solution.
- Providing end-to-end design documents for the Engineering onboarding

Infrastructure Designing for Enterprise Insurance company(Singapore/China)

- Designed and implemented the AWS landing zone with Control Tower.
- Deployed the landing zone with multiple OU's and environments using IAC (Infrastructure-as-a-code) Terraform
- Deployed centralized networking account with Direct Connect, Site-to-site VPN, Transit gateway, NAT-Gateway, Network Firewall and VPC Endpoints.
- Deployed centralized security account with all the native security services like AWS GuardDuty, Inspector, SecurityHub, Detective, Macie.
- Migrated more than 10+ applications from on-prem to cloud with minimal downtime.
- Migrated on-prem NFS server to EFS using AWS Datasync.
- Migrated the largescale databases from Onprem to RDS using AWS DMS. Databases including MySQL and PostgreSQL.
- Supporting the migration with infra level and helping in suggesting the best resources for the application.
- Security Controls based on Bank Standards – MAS TRM, MAS Notice 655, CIS Benchmark v1.4

Migration Solutions and Implementation for Digital Fintech (Thailand)

- Designed and Migrated E-wallet application from Azure to AWS with minimal downtime.
- Installed and configured the AWS MGN replication agent to migrate the virtual machine from Azure to AWS.

- Migrated the MSSQL databases from Azure Managed SQL Instance to MSSQL RDS using Native Backup&Restore for Full-load and AWS DMS for Incremental data(CDC).
- Implemented RDS Read Replica to reduce the load and optimize the performance
- Migrated the firewall rules from Azure firewall to AWS WAF.

ACADEMICS

- **B.E. - ECE | Hindusthan College of Engineering and Technology, Coimbatore | 63%.**
- **HSC – Computer Science | Christ the King Matric Hr. Sec. School, Kumbakonam | 82%.**
- **SSLC | Christ the King Matric Hr. Sec. School, Kumbakonam | 80%.**

PERSONAL TRAITS

- Date of Birth : 28/04/1997. (April 28, 1997).
- Gender : Male.
- Nationality : Indian.
- Marital Status : Single.
- Languages Known : English, Tamil, Malayalam.

DECLARATION

I hereby declare that the information provided above is so true to the best of my knowledge.

(Aswanth)