

**Aswanth Rajan**  
**Senior Cloud Engineer**  
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**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.

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**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.
  - Scripted and monitored end-to-end monitoring solutions in AWS for Infrastructure using Cloud Watch.
  - 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.

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**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%.

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**PERSONAL TRAITS**

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

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**DECLARATION**

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

(Aswanth)