

Hamza Salam

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CERTIFICATES

- AWS Certified Solutions Architect Associate ☑
- AWS Certified Cloud Practitioner ☑



EDUCATION

First Class BEng Aeronautical Engineering Degree
City, University of London
09/2019 – 07/2022



PROFILE

With a background in Aeronautical Engineering, I have developed a strong analytical mindset and a detail-oriented approach to complex systems. These skills have served as a foundation for my transition into cloud computing. Pursuing my interest in the field of cloud technology, I have completed the AWS re/Start programme, which provided me with a hands-on introduction to the essentials of cloud services and infrastructure.

Combining the discipline of engineering with the innovative technologies in cloud computing, I am keen to apply my knowledge and continue growing as a cloud engineer.



PROJECTS

Deploying a Website to AWS Using Terraform Modules and Creating a CI/CD Pipeline with GitHub

- Automated deployment of a scalable, secure AWS cloud environment using Terraform and GitHub Actions for a high-availability web hosting solution.
- Engineered Terraform scripts to provision critical AWS resources, including ACM SSL certificates for secure HTTPS connections, S3 buckets for website hosting, CloudFront for global CDN services, and Route53 for DNS management.
- Implemented a secure CI/CD pipeline in GitHub Actions, set to activate upon code pushes to the main branch, ensuring continuous deployment with zero downtime.

Building Robust Security with Amazon CloudFront, AWS WAF & AWS Secrets Manager

- Implemented robust HTTPS encryption across application services by provisioning ACM Certificates for both Application Load Balancers (ALB) and CloudFront distributions, ensuring the secure transmission of data.
- Configured CloudFront distributions with an ALB as the origin, integrating HTTPS protocols, CNAMEs, custom SSL certificates, and precise header manipulations to fine-tune request and response processing.
- Elevated security measures by establishing Web Application Firewall (WAF) access control lists (ACLs) and designing an X-Origin Verification rule to safeguard ALB endpoints against malicious attacks.
- Automated the rotation of secrets for the X-Origin-Verify header value, utilizing AWS Secrets Manager to maintain high security standards for authentication and data integrity.

Infrastructure Monitoring and Compliance Enhancement

- Configured VPC Endpoints for secure internal communication between AWS Systems Manager and CloudWatch Logs, minimising public internet exposure.
- Installed and configured CloudWatch Agent on EC2 instances using AWS Systems Manager to collect comprehensive metrics and logs for performance optimisation and issue diagnosis.
- Leveraged CloudWatch Logs to monitor application/system logs and set up metric filters and alarms for real-time incident awareness, like exceeding 404 error thresholds.

TECHNICAL EXPERIENCE

Generation UK & Ireland

AWS re/start Program

11/2022 – 02/2023 | London

Participated in a 12-week IT fundamentals and AWS Cloud training program. Developed proficiency in Linux OS, Python, and Shell scripting. Applied core AWS services including EC2, S3, IAM, VPC, Lambda, CloudFormation, RDS, and Route 53.

Achievements:

- Created scalable, highly available environments following AWS Well-Architected and Cloud Adoption Framework.
- Enhanced security by configuring access controls, encrypting data at rest and in transit, and implementing logging and monitoring using CloudTrail and Config.
- Developed serverless architectures with AWS Step Functions, AWS Lambda, Fargate, and EventBridge.

PROFESSIONAL EXPERIENCE

Provide SESS

Security Steward

08/2021 – present | London

As a Security Steward at Provide SESS, I have maintained the safety and security of various venues. My job involved keeping an eye on security measures, handling incidents promptly, and following safety rules. I've sharpened my ability to solve problems and deepened my knowledge of security measures through this role.

I always strive to make sure customers are happy with their service, ensuring tasks are managed effectively in my team for seamless operations. My problem-solving skills and clear communication have been key in resolving any issues, helping to maintain a good relationship with customers and a positive atmosphere.