

Case Study: First Forensics

Client

First Forensics provide digital forensics services and technical education within the law enforcement sector.

Specific Challenge

As an education provider to, among others, The Police Training College First Forensics have adopted the Governments cloud first policy and were keen to prove the efficiency and security that moving their training solution to the cloud would deliver. The solution had to be designed to be scalable to cater for the increased user load as more clients use the system and new training material is released.

Solution Summary

To migrate First Forensics' Moodle training solution into the AWS London Region and meet the security and regulatory requirements of the end client.

Outcome

A secure and reliable training solution that provides a scalable and cost effective platform.



First Forensics

First Forensics provide digital forensics services and technical education within the law enforcement sector. The services they provide are utilised for forensic casework throughout the UK, they regularly provide specialist training on all aspects of digital forensics to both law enforcement, legal and private forensic companies.

The Requirement

First Forensics approached Cloud Fundamental through our partners Amazon Web Services to discuss a project to implement a secure training environment, to include education platform Moodle, within AWS London.

Initial discussions with First Forensics and their end clients, including the Police Training College, indicated that the site will hold Official-Sensitive data. The system will provide training courses for 10,000 registered users with up to 200 of those being concurrent at any one time. The system will be used within office hours and needs to be fully backed up.

The Challenge

Together with the client and their accreditors we detailed the technical controls that would be applied to the system allowing them to make a risk based decision on the storage of the information.

Solution Implementation

Cloud Fundamental's initial design, which included comprehensive access and technical proposals and detailed how they would be applied to the solution, enabled the client to be confident that any risks had been mitigated and achieve accreditation for their data to be stored in AWS.

Together with First Forensics in-house development team, Cloud Fundamental built a proof of concept for a smaller sub-set of 100 test users which hosted a limited cross-section of their available courses. During testing of this small-scale environment, an issue with how Moodle behaved when attempting to scale was discovered. As part of our exhaustive trouble-shooting, we rebuilt all of the servers to eliminate the secure Operating System and the additional security protocols as a cause. The root-cause of the issue was identified promptly which resulted in us splitting out the individual components of Moodle, subsequently allowing the service to scale without issue.





The Outcome

The solution is fully live and successfully scaling as demand for First Forensics' service peaks and flows. The new, Cloud Fundamental designed, AWS solution provides education courses to an initial set of 2,000 users which has gradually increased to 10,000 as training is rolled out.

An Established Team

Thanks to the success of the implementation Cloud Fundamental are now a trusted partner of First Forensics and are currently discussing further projects with them.

Amazon Web Services

AWS has more than 15 years' experience in delivering global infrastructure on a large scale. In 2017, they launched a UK-based Region with the ability to host Government data.

Cloud Fundamental with their experience of AWS and traditional hosting models within UK Government, became an AWS certified partner – cementing their place as a UK leader in cloud migration within secure environments.

Solution Benefits

- Reduced cost
- Ability to adjust capacity on demand with 'Pay as you go' pricing
- Enhanced security
- A performant and scalable platform
- Minimal administration
- No hardware management

About Cloud Fundamental

Cloud Fundamental's reputation and continued success is the result of unrivalled technical expertise in the design and implementation of secure solutions in both the private and public sector. Their technical team has a wealth of experience honed over several decades and are recognized for their successful implementations and unsurpassed service levels.

As an AWS Certified Partner, they specialise in delivering secure, public cloud deployments - from small scale cloud pilots to phased mass migration. Able to work to strict timeframes and within tight budgets, their services range from initial technical guidance and advice to end delivery of full cloud migrations.

Dedication, commitment and flexibility are the cornerstone of Cloud Fundamental's approach, ensuring they are the preferred business partner on an increasing number of cloud migrations..

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