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AWS VAPT Assessment for a Cloud-Based E-Learning Platform CASE STUDY





AWS VAPT - Cloud-Based E-Learning Platform



Business Situation

A rapidly growing e-learning platform offering online courses and educational resources to a global audience. The platform leverages Amazon Web Services (AWS) for its cloud infrastructure.

Cloud Security



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CHALLENGE



1. Protecting a growing user base with sensitive data in a vast cloud environment like AWS.

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3. Ensuring a secure configuration for the e-learning platform within the AWS infrastructure



2. Identifying vulnerabilities that could lead to breaches of sensitive student information.



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TwinTech had a Kick-Off meeting with firm's CEO and IT Manager to define PenTesting scope



Completed an application walkthrough to gain a comprehensive understanding of the application's workflow and underlying technologies

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Mapped vulnerabilities in client's AWS architecture, prioritizing and remediating critical risks.



Conducted VAPT to address security vulnerabilities, followed by a DPIA to assess the impact on data processing activities and ensure compliance with data protection regulations



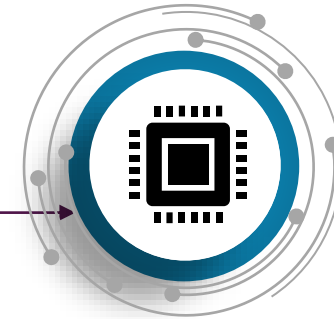
Strengthened access controls for IAM roles, preventing unauthorized resource access and privilege escalation.



Provided a prioritized remediation plan and best practices to maintain a secure AWS environment.



Security audit identified vulnerabilities, leading to optimized and hardened AWS configuration for enhanced security.



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About Client & Client Team

- E-learning platform offering online courses and educational resources to a global audience.
- Head of IT Department

Client Needs

- Strengthen security in their AWS cloud infrastructure.
- Mitigate risks to sensitive student information.
- Safeguard platform from potential breaches.

Key Strategies Implemented

- Conducted a comprehensive security evaluation of their AWS cloud.
- Simulated real-world attacks to identify vulnerabilities.
- Recommended strategies to enhance their AWS security posture.



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BENEFITS



VAPT & DPIA combined proactive threat mitigation with data privacy compliance, demonstrating a holistic security approach.



Security audit findings optimized AWS configuration, proactively reducing security risks.



Reduced risk of unauthorized access, protecting sensitive student information.

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