A USA-BASED HEALTHCARE TECHNOLOGY ORGANIZATION STAYS AHEAD OF CYBER THREATS WITH CONSISTENT SYSTEM'S EXPERTISE

Web API Collection VAPT | Case Study

ABOUT THE CLIENT

The client provides a social networking and wellness platform for healthcare employers to improve the mental and emotional well-being of their staff. It helps organizational leadership unlock insights on mental health trends & drivers of burnout on a departmental level so that they support their staff better.

BUSINESS REQUIREMENT

The Client required us to carry out a detailed Vulnerability Assessment and Penetration testing of the API Collection used in their application to examine its security posture.

AUTOMATED TESTING UTILITIES

- ☑ **BurpSuite Pro**
- ☑ **Postman**

50% Faster Results

40% Lesser Costs

Full coverage on OWASP Top 10, NIST & SANS 25

PROCEDURE FOLLOWED

- We examined the entire API Collection of the client's web application for security loopholes by exercising a vulnerability assessment and penetration test. We ensured exhaustive coverage on OWASP Top 10 API Security Risks.
- Through a rigorous pen-testing simulating real-world attacks, we assessed the potential business impacts of the identified security gaps and recommended effective remediation.

OBSERVATIONS

- The API collection exhibited common yet critical vulnerabilities like sensitive data exposure and insecure data transmission due to lack of encryption.
- Prone to attacks such as Denial of Service (DoS), SQL Injection, Command Injection & Cross-site request Forgery (CSRF).
- Detected a broken access control that lacked RBAC (role-based access control) mechanism & broken user authentication due to weak API keys.

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