# A LEADING GERMAN AUTOMOBILE MANUFACTURER SAFEGUARDS THEIR APPLICATION FROM CYBER ATTACKS

Web Application & API VAPT | Case Study

## ABOUT THE CLIENT

The client is a German multinational automobile manufacturing company that designs, manufactures, and distributes passenger and commercial vehicles, motorcycles, engines, and turbo-machinery, as well as offers related services like financing, leasing, and fleet management.

## BUSINESS REQUIREMENT

The client mandated a comprehensive Vulnerability Assessment and Penetration Test for their Web Application and associated APIs to evaluate its security posture within the specified timeframe.

## AUTOMATED TESTING UTILITIES

- ☑ **BurpSuite Pro**
- ☑ **Metasploit**
- ☑ **Nessus**
- ☑ **Wireshark**
- ☑ **Nmap**
- ☑ **Postman**

## 50% Faster Results

## 40% Lesser Costs

## Full coverage on OWASP Top 10, NIST & SANS 25

## PROCEDURE FOLLOWED

Conducted automated scans and implemented a DAST methodology to conduct an end-to-end VAPT

Assigned weights to all the security gaps based on their severity and business impact

Recommended an effective remediation plan for an enhanced application security

## OBSERVATIONS

- Insufficient access control definition and enforcement led to unauthorized privileged escalations.
- Weak authentication mechanisms made the app vulnerable to attacks like XSS, time-based & boolean-based SQL injections.
- Security misconfigurations like security headers, cookie protection, and network settings were identified.
- Discovered API-related vulnerabilities, including IDOR, excessive data exposure and lack of rate limiting.

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