

## ABSTRAK

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*Application Programming Interface (API)* adalah elemen penting dalam pengembangan aplikasi. API target utama penyerangan karena mengekspos data sensitif. *Penetration Testing* suatu langkah pencegahan penting untuk mengidentifikasi kelemahan serta kebocoran data yang mungkin disebabkan oleh API. *Open Web Application Security Project (OWASP) API Top 10 2023* merupakan standar pengujian keamanan API. Hasil pengujian kerentanan banyak terjadi pada Broken Object Level Authorization (BOLA) dampaknya yaitu berupa perubahan, pengungkapan dan penghapusan data, cara perbaikannya yaitu merubah ID objek menjadi Universally Unique Identifier (UUID).

**Kata Kunci :**

*Application Programming Interface (API), Broken Object Level Authorization (BOLA), Open Web Application Security Project (OWASP), Identifier (ID), Universally Unique Identifier (UUID).*

## ABSTRACT

*Application Programming Interface (API)* is an important element in application development. APIs are prime targets for attacks because they expose sensitive data. *Penetration Testing* is an important preventive measure to identify weaknesses and data leaks that may be caused by APIs. *Open Web Application Security Project (OWASP) API Top 10 2023* is an API security testing standard. The results of testing many vulnerabilities occur in Broken Object Level Authorization (BOLA), the impact is in the form of changes, disclosure and deletion of data, the way to fix it is to change the object ID to a Universally Unique Identifier (UUID).

**Keywords :**

*Application Programming Interface (API), Broken Object Level Authorization (BOLA), Open Web Application Security Project (OWASP), Identifier (ID), Universally Unique Identifier (UUID).*