



API1:2023 - Broken Object Level Authorization (same as 2019)

APIs tend to expose endpoints that handle object identifiers, creating a wide attack surface of Object Level Access Control issues. Object level authorization checks should be considered in every function that accesses a data source using an ID from the user.

https://owasp.org/API-Security/editions/2023/en/0xa1-broken-object-level-authorization/



API Broken Object Level Authorization is a security vulnerability where an API doesn't properly enforce access controls, enabling an attacker to manipulate or access unauthorized data objects;

For example, an e-commerce API allowing a user to change the product ID in a request and view or modify another user's orders.

Example: An online banking API that does not properly enforce authorization checks on individual account transactions, allowing any authenticated user to manipulate and view transactions of other users' accounts.



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Locating Resource IDs

GET /api/v1/user/account/1111

GET /api/v1/user/account/1112

Look for user ID names or numbers, resource ID names or numbers, organization ID names or numbers, emails, phone numbers, addresses, tokens, or encoded payloads.



Testing BOLA

- Create resources as Alice.
- Create resources as Bob.
- Swap out your Alice token for user Bob token.
- Using Bob's token, make the request for Alice's resources.

Create multiple accounts at each privilege level to which you have access.

Using your accounts, create a resource with account A and attempt to interact with it using account B



In a nutshell

Broken Object Level Authorization vulnerabilities are the same concept you are most likely already familiar with:

Broken Access Control and Insecure Direct Object References (IDOR)

