

account information required for access to the admin page access controls can be divided into their intended permissions. function outside the user's limits. Description Common access control vulnerabilities include:

A01:2021 - Broken Access Control

The application uses unverified data in a SQL call that is accessing https://example.com/app/accountInfo?acct=notmyacct An attacker simply forces browses to target URLs. Admin rights are From: https://example.com/app/getappInfo To: https://example.com/app/admin_getappInfo Vertical access controls Horizontal access controls Context-dependent access controls restrict access to functionality and resources based upon the state of the application or the user's Context-dependent access controls interaction with it. Access control enforces policy such that users cannot act outside of Failures typically lead to unauthorized information disclosure, modification, or destruction of all data or performing a business Access control design decisions have to be made by humans, not technology, and the potential for errors is high. where access should only be granted for particular capabilities, roles, or Violation of the principle of least privilege or deny by default users, but is available to anyone. Bypassing access control checks by modifying the URL, internal application state, or the HTML page, or by using an attack tool modifying API requests. Permitting viewing or editing someone else's account, by providing its unique identifier IDOR Accessing API with missing access controls for POST, PUT and DELETE Elevation of privilege. Acting as a user without being logged in or acting as an admin when logged in as a user JSON Web Token (JWT) Metadata manipulation EX:cookie or hidden field manipulated abusing JWT invalidation. CORS misconfiguration allows API access from unauthorized/untrusted Force browsing to authenticated pages as an unauthenticated user or to privileged pages as a standard user.

Access control is only effective in trusted server-side code or server-less API, where the attacker cannot modify the access control check or metadata.