

- Filename: eccouncil-ceh31250-v12-15-3-1-blind-based-sqli-attacks.md
- Show Name: CEHv12 (312-50)
- Topic Name: Web Application Hacking: SQL Injection
- Episode Name: Blind-based SQLi Attacks

=====

Blind-based SQLi Attacks

Objectives:

- Explain and demonstrate how to use Blind-based SQLi to access sensitive information
-
- Today we're looking into 'Blind' SQL Injection. What does that mean?
 - No visible indicators of a (un)successful injection
 - Are there techniques that we can use to verify whether or not an injection is successful?
 - Boolean-based
 - Time-based
 - Can you show us an example of a Boolean-Based Injection?
 - Boolean Demo
 - Test for SQLi with single-quote (')
 - Custom error returned, but it looks like special char filtering
 - Try Boolean injection
 - TRUE/FALSE conditions
 - ' OR 1=1 -- - is TRUE
 - ' OR 1=3 -- - is FALSE
 - One or both could be useful
 - Now we continue with ORDER BY column enumeration
 - iron man' order by 1 -- -
 - Site throws custom error when invalid column is requested
 - iron man' order by 8 -- -
 - "Invalid Syntax Detected!"
 - Now we know there are 7 columns in the table
 - Then continue DB enumeration with UNION SELECT
 - You also mentioned Time-Based Blind injections? How does that work?
 - Lack of feedback from injection tests
 - bWAPP Time-based challenge doesn't return ANY ERRORS!
 - Must find some way of verifying test success/failure
 - Timed responses
 - So we force, the app to wait before it responds?
 - Add -sleep() to the test
 - iron man' -sleep(1) -- -
 - The site should 'sleep' for 10 seconds, then return results
 - If site hangs, then SQLi test is successful

- This becomes our success/failure indicator

- `iron man' order by 1 --` - has no indication of success/fail
- `iron man' order by 8 --` - has no indication of success/fail

- Add `-sleep(0.5)` to make it hang 5 seconds

- `iron man' -sleep(0.5) order by 1 --` - hangs, SUCCESS!
- `iron man' -sleep(0.5) order by 8 --` - no hang, FAILURE!

- We can then deduce that there are 7 columns in the table