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- Show Name: CEHV11 (312-50)
- Topic Name: Web Application Hacking: SQL Injection
- Episode Name: Blind-based SQLi Attacks

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Blind-based SQLi Attacks

Objectives:

- Explain and demonstrate how to use Blind-based SQLi to access sensitive information
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- 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