

Introduction to the Course

With the dominance of cloud and software as a service delivery web portals are now the dominant means of accessing applications and are often supported by a backend SQL server. With the prevalence of SQL, adversaries will look for every opportunity to take advantage of unprotected SQL based applications to gain access to our information and systems. We need to protect our systems and that means understanding the basics of the SQL language and understanding how it can be used to penetrate our systems. This course teaches us how SQL injections work.

Learning objectives

- Injection in Mutillidae
- Injection in Microsoft & Oracle SQL Servers
- Cracking SQL hash
- SQL Injection via Burp Suite
- Defeating WAF
- SQLI Labs

Screenshots

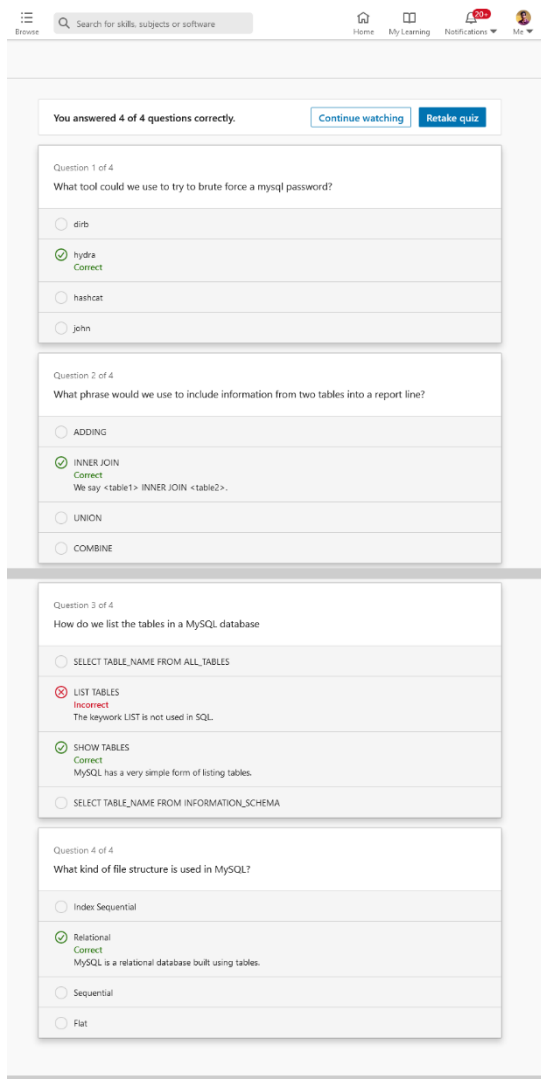


Figure: Section 01 – SQL Basics

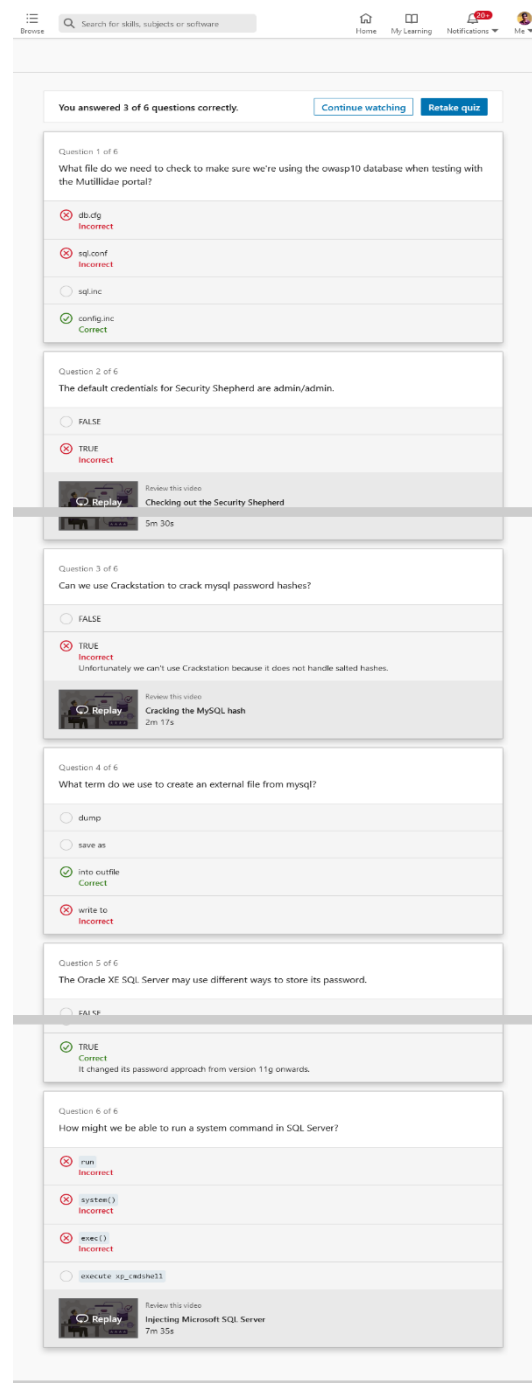


Figure: Section 02- Testing for SQL Injections

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My Learning

Notifications

Me

You answered 6 of 7 questions correctly.

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Retake quiz

Question 1 of 7


What option can we use to help defeat a web application firewall?

--session
Incorrect

--confucate
Incorrect

We can't.
Incorrect

--randm-agent
Incorrect



Review this video

Defeating the WAF

See

Question 2 of 7

What do we use the --data option for in sqlmap?

specifying the output file
Incorrect

Setting its operating configuration
Incorrect

Passing parameter strings
Correct

Providing data to be written into the database
Incorrect

Question 3 of 7

What form of sql injection might we use the sleep function to check for?

Root injection
Incorrect

Deferred execution injection
Incorrect

Blind SQL injection
Correct

In band sql injection
Incorrect

Question 4 of 7

How do we get sqlmap to pass the session id into MySQL?

--session
Incorrect

It can't do that.
Incorrect

Embed it in the URL.
Incorrect

--cookie
Correct

Question 5 of 7

Which Burpsuite function enables us to resend a message to the website?

Intruder
Incorrect

Comparer
Incorrect

Repeater
Correct

Cloner
Incorrect

Question 6 of 7

A simple way to run sqlmap is to provide the complete request message

TRUE
Correct
We can provide it in a file using the -r option.

FALSE
Incorrect

Question 7 of 7

What function would we use to extract multiple values from a database if we only had one output field?

we can't
Incorrect

ascii
Incorrect

concat
Correct

Figure: Section 03 – Automating SQL Injection Exploits

Conclusion

SQL injections are a common way to gain unauthorized access to web applications and extract data from them. In this course, instructor He shows you the SQL command language and how it is used by attackers to craft SQL Injections. He begins with commonly encountered relational databases and the basics of the SQL command language. Then he focuses on advanced SQL commands that may be used by attackers to achieve SQL injections. He explains how to use a simple Python script and how an SQL injection changes the backend SQL query. Then he demonstrates how SQL injections could be used to exploit some testing targets. He steps through the process of automating SQL injection exploits, then finishes with advice on how to continue to hone your skills as a penetration tester.

Certificate

