Security & Defenses Quiz

| **Due** Feb 14 at 11:59pm | **Points** 100 | **Questions** 8 | **Time Limit** None |

This quiz is currently locked.

Attempt History

	Attempt	**Time**	**Score**
LATEST	**Attempt 1**	44 minutes	100 out of 100

> ⊘ Correct answers are hidden.

Score for this quiz: **100** out of 100

Submitted Feb 14 at 7:13pm

This attempt took 44 minutes.

Question 1	**10 / 10 pts**

A _____ injection attack is when an attacker issues database commands to cause havoc

- ◉ SQL

- ○ XSS

- ○ JavaScript

- ○ LDAP

Question 2	**10 / 10 pts**

A _____ attack is when the attacker runs a script to try to guess usernames and passwords

○ Automated Attack

○ Shark Attack

○ Eenie Meenie Miney Mo

◉ Brute Force

Question 3   10 / 10 pts

What is the weakest point of security?

○ System Vulnerabilities

○ Weak Passwords

○ Injection Attacks

◉ Humans

Question 4   15 / 15 pts

What is Username Enumeration?

Your Answer:

A process where an attacker tries to extract usernames from a web application is called username enumeration. These types of attacks most commonly take place on login pages, registration pages, and password reset pages.

Question 5   15 / 15 pts

How do we defend against username enumeration?

Your Answer:

These types of attacks are based on humans interacting with the system which is the weakest point of security and cannot really be eliminated

BUT

The best way to avoid or create a defense is to never inform the user about which field is invalid while doing log in. Always list the common message of the combination of username and password is invalid.

Question 6   15 / 15 pts

What is a DDOS Attack? Give an example

Your Answer:

A DDOS attack is a Distributed Denial of Service attack. This type of attack happens when multiple users try to access the server simultaneously and as a result server is not able to keep up with the requests and crashes and returns a timeout error.

An example of a DDOS attack would be

Imagine a class full of students ready to give tests on the school's testing platform. John although a smart student who didn't prepare for the test wanted to avoid the test for all costs. Since the school didn't spend money

to create a robust system John went onto the school's network and was able to find an entry port in the system. He uses that port to get into the system and runs a script that causes a DDOS attack. With the servers being flooded other students/faculty were not able to get into the system and the test was postponed to a later date. Although this attack was not harmful to anyone but was a clear example of a DDOS attack.

Question 7   10 / 10 pts

Jess is searching social media profiles to see if she can get enough information on people to guess their passwords, usernames or both. She is looking at posts where people post personal information about themselves such as their favorite color, their favorite food, their pet's and their children's names. What is this called?

○ Growth Hacking

○ Brute Force Attack

○ Social Derangement

◉ Social Engineering

Question 8   15 / 15 pts

What is an insecure direct object references attack? Give an example and why is this so bad?

Your Answer:

When some sort of primary key for your system is visible to the end-user which can, in turn, be used to get access to sensitive data.

One common example would be a key visible in the URL params that can be a user id which might be a primary key in the system.

Imagine a user is using a banking application and the URL consists of a number that is actually a user id. The user tries to change the combination on the user id and one of the other combinations actually works and gives out the financial information. With attach like these there is a huge possibility of leaking out sensitive information for potentially all of the users and can be sold on the dark web.

Quiz Score: **100** out of 100