Quiz: 14 Prove: Final Part I

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Started: Dec 9 at 10:06pm

Quiz Instructions

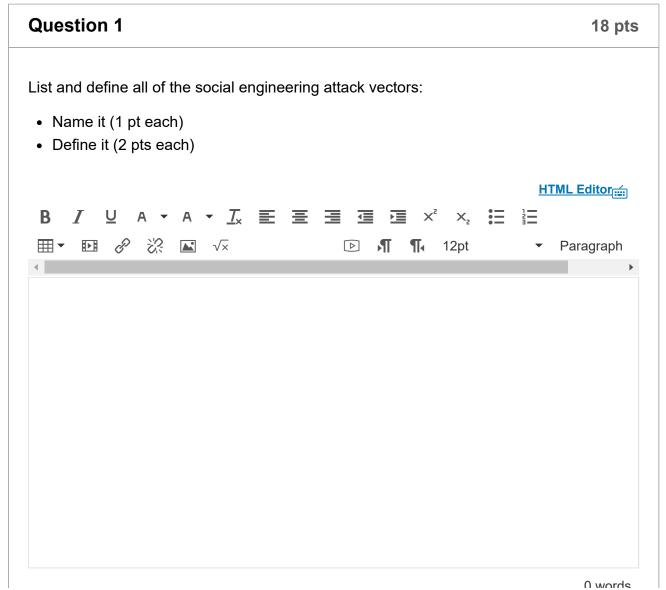
Overview

12/9/2019

- Task: Study Unit 0, 1, 2, and 3. Take the final exam.
- Purpose: Make sure we understand everything in the semester.
- Time: Three hours to study for the final, 90 minutes to take the test.

Instructions

- Details about the final (https://content.byui.edu/file/2390954c-eadb-4592-aa96-5a29275f9404/1/Ponder/470.14.Final1.html)
- · Closed book





Question 2	4 pts
List the attacker's advantage. One point each.	
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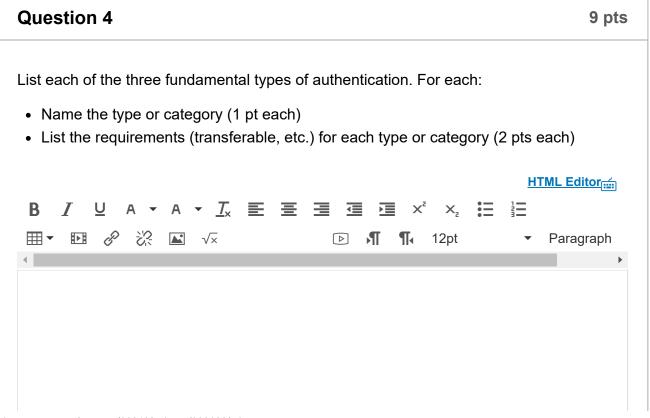
Question 3 9 pts

For each of the following scenarios, name an appropriate access control mechanism. For each mechanism, define the associated data structure in C++.

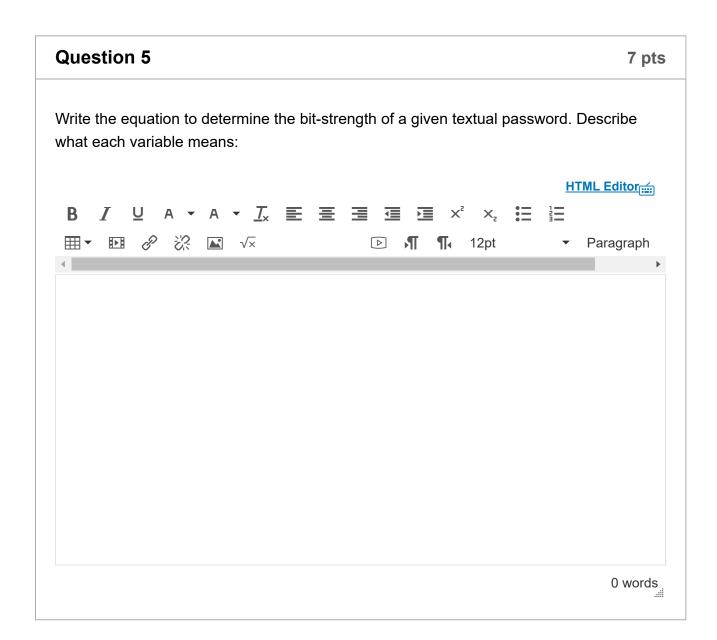
- Name it (1 pt each)
- Define the data structure(s) in C++ (2 pts each)

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Question 6 16 pts

In the following encryption scenario, describe what is going on in each step. In other words, describe what the symbol means, 2 points each

C-(K_c, K-)

C-(K_C, K-)

Alice.com

C+(M_P, K_{AES})

M_C

C-(M_C, K_{AES})

Bob

1	K+	
2	K+	
3	C+(K _{AES} , K+)	
	K _c	
	C-(K _c , K-)	
4	C+(M _p , K _{AES})	
	M _c	
	C-(M _c , K _{AES})	

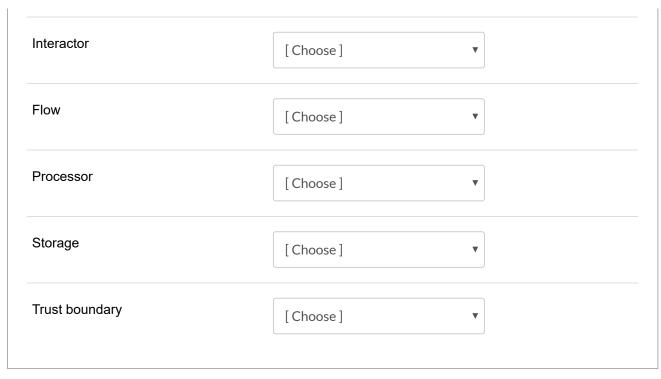
HTML Editor

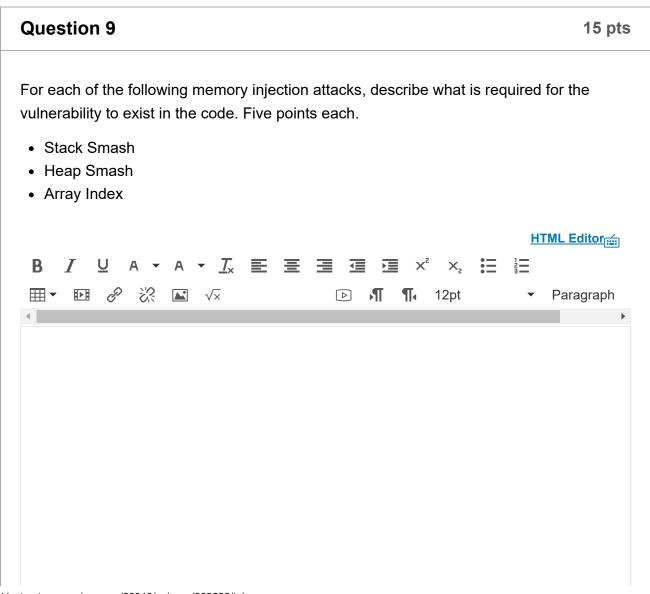
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Question 7 12 pts List all four types of <u>SQL injection</u> vulnerabilities (which happen to be common to almost all command injection attack vectors). For each: • Name it (1 pt each) • Describe it (2 pts each) HTML Editor $I \cup A \cdot A \cdot I_{x} \equiv \Xi \equiv \Xi \boxtimes x^{2} \times_{z} \equiv \Xi$ **■ ? ※ ■** √× ▶ ¶ 12pt Paragraph 0 words

Question 8 10 pts

Match the symbol associated with each of the following components of a data flow diagram. Two points each.





2/9/2019	Quiz: 14 Prove: Final Part I	
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