Started on	Monday, 17 March 2025, 3:32 PM
State	Finished
Completed on	Monday, 17 March 2025, 3:36 PM
Time taken	3 mins 51 secs
Marks	13.00/15.00
Grade	86.67 out of 100.00

Question 1

Complete

Mark 1.00 out of 1.00

Given the following vulnerable code, what type of attack can be performed? $exec(ping {req.body.host}, (error, stdout, stderr) => { ... });$

- a. CSRF Attack
- b. Command Injection
- c. Cross-Site Scripting (XSS)
- d. SQL Injection

Question 2

Complete

Mark 1.00 out of 1.00

How can Broken Access Control be exploited?

- a. By making too many API requests
- $\ igotimes$ b. By modifying JWT tokens or accessing restricted APIs
- oc. By logging in with the wrong password
- Od. By using a strong password

Question 3

Complete

Mark 1.00 out of 1.00

How can the following function be exploited?

app.post('/track-vehicle', (req, res) => {

const { plateNumber } = req.body;

exec('echo Tracking vehicle \${plateNumber}`, (error, stdout, stderr) => { ... });

});

a. By using a VPN

b. By injecting shell commands in the plateNumber field

c. By sending an empty request body

d. By making multiple requests at the same time

Question 4		
Complete		
Mark 1.00 out of 1.00		
If a user inputs `ABC123 && rm -rf /`, what will happen on a Linux	server?	
 a. The vehicle tracking system will show an error 		
 b. The server will shut down immediately 		
c. The entire file system could be deleted		
Od. Nothing will happen		
Question 5		
Complete		
Mark 1.00 out of 1.00		
What command could an attacker enter in the 'track vehicle' and	noint to delete files on a Windows system?	
What command could an attacker enter in the `/track-vehicle` end	point to delete liles on a windows system?	
a. ABC123 && del C:\Windows\System32		
b. ABC123 && shutdown -h now		
c. ABC123 && mv /etc/passwd /dev/null		
○ d. ABC123; rm -rf /		
Question 6		
Complete		
Mark 0.00 out of 1.00		
What is the best way to prevent command injection attacks?		
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17/25, 3:36	6 PM ClandBAC-Quiz: Attempt review
Question 8	3
Complete	
Mark 1.00 d	out of 1.00
What is	s the impact of Broken Access Control on an application?
○ a.	Attackers can execute arbitrary commands on the server
b.	Unauthorized users can access restricted information or perform admin actions
O c.	It allows Cross-Site Scripting (XSS)
O d.	The database gets automatically deleted
Question	
Complete	
Mark 1.00 d	out of 1.00
	s the primary cause of command injection vulnerabilities in applications? Incorrect use of loops in JavaScript
O b.	Using HTTPS instead of HTTP
c.	Lack of input validation when executing system commands
O d.	Poor network security configuration
Question 1	10
Complete	
Mark 0.00 d	out of 1.00
What is	s the safest way to execute system commands in Node.js?
О а.	Concatenating user input into system commands
	Using execFile() with sanitized input
O c.	Using exec() with user input

d. Using eval()

Question 11 Complete Mark 1.00 out of 1.00

What security flaw exists in the following '/users' endpoint?

```
app.get('/users', (req, res) => {
  const token = req.headers.authorization;
  jwt.verify(token, SECRET_KEY, (err, decoded) => {
    db.query('SELECT id, username, role FROM users', (err, results) => {
      res.json({ users: results });
    });
  });
});

a. It does not return JSON data
  b. It does not verify the user's role before returning data
  c. It is vulnerable to SQL injection
```

Question 12

Complete

Mark 1.00 out of 1.00

What would happen if an attacker modified a JWT token to escalate their privileges?

a. They could access admin-only features

od. It does not store passwords securely

- b. They would get logged out
- oc. The server would detect the modification and reject the request
- od. The token would expire immediately

Question 13

Complete

Mark 1.00 out of 1.00

Which function is the most dangerous when handling user input in Node.js?

- a. parseInt()
- b. console.log()
- c. JSON.stringify()
- d. exec()

Question 14

Complete

Mark 1.00 out of 1.00

Which of the following is an effective way to prevent Broken Access Control?

- a. Validate user roles and permissions before processing requests
- O b. Store JWT tokens in Local Storage without encryption
- oc. Remove authentication from sensitive endpoints
- Od. Allow users to modify their own JWT tokens

Question 15

Complete

Mark 1.00 out of 1.00

```
Why is the following endpoint a security risk?
app.get('/users', (req, res) => {
  db.query('SELECT id, username, role FROM users', (err, results) => {
     res.json({ users: results });
  });
});

    a. It uses HTTPS instead of HTTP
```

- b. It exposes all users' details without authentication
- o. It allows SQL Injection
- d. It is vulnerable to CSRF