Started on	Monday, 17 March 2025, 3:36 PM				
	Finished				
Completed on	Monday, 17 March 2025, 3:41 PM				
	5 mins 5 secs				
Marks	14.00/15.00				
Grade	93.33 out of 100.00				
Question 1					
Complete					
Mark 1.00 out of 1.00					
	ulnerable code, what type of attack can be performed? v.host}`, (error, stdout, stderr) => { });				
○ a. CSRF Attack					
b. Cross-Site So	ripting (XSS)				
c. Command In	jection				
d. SQL Injection					
Question 2					
Complete					
Mark 1.00 out of 1.00					
How can Broken Acce	ess Control be exploited?				
a. By logging ir	with the wrong password				
b. By making to	oo many API requests				
c. By using a strong password					
d. By modifying	JWT tokens or accessing restricted APIs				
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 making multiple requests at the same time

c. By sending an empty request body

d. By injecting shell commands in the plateNumber field

17/25, 4:04 PM	ClandBAC-Quiz: Attempt review
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 entire file system could be deleted 	
b. The vehicle tracking system will show an error	
c. Nothing will happen	
d. The server will shut down immediately	
Question 5	
Complete	
Mark 1.00 out of 1.00	
What command could an attacker enter in the `/track-vehi	cle` endpoint to delete files on a Windows system?
a. ABC123 && mv /etc/passwd /dev/null	
b. ABC123 && del C:\Windows\System32	
c. ABC123; rm -rf /	
d. ABC123 && shutdown -h now	
u. Abc125 && silutuowii -ii iiow	
Question 6	
Complete	
Mark 1.00 out of 1.00	
What is the best way to prevent command injection attack	ss?
O a . Hea aval () to process user input	
a. Use eval() to process user input	
b. Use parameterized queries and sanitize input	
c. Use an insecure API to execute shell commands	
 d. Allow user input directly in system commands 	
Question 7	
Complete	
Mark 1.00 out of 1.00	
What is the correct way to restrict access to admin users o	nlv2
What is the correct way to restrict access to autilin users o	· · · · · · · · · · · · · · · · · · ·
a. if (decoded.role !== 'user') return res.status(403).j	son({ error: 'Forbidden' });
b. if (decoded.role !== 'admin') return res.status(403).json({ error: 'Forbidden' });
c. if (decoded.id === 1) return res.status(403).json({	
d. if (!decoded.role) return res.status(403).json({ erro	

17/25, 4:04 PM	ClandBAC-Quiz: Attempt review		
Question 8			
Complete			
Mark 1.00 out of 1.00			
What is the imp	act of Broken Access Control on an application?		
O a Δttacke	ers can execute arbitrary commands on the server		
	tabase gets automatically deleted		
	orized users can access restricted information or perform admin actions		
	rs Cross-Site Scripting (XSS)		
G G. It dilow	s cross site scripting (x35)		
Question 9			
Complete			
Mark 1.00 out of 1.00			
What is the prir	nary cause of command injection vulnerabilities in applications?		
a. Incorre	ct use of loops in JavaScript		
	etwork security configuration		
c. Lack of	input validation when executing system commands		
d. Using I	HTTPS instead of HTTP		
10			
Question 10			
Complete			
Mark 1.00 out of 1.00			
What is the safest way to execute system commands in Node.js?			

- a. Concatenating user input into system commands
- b. Using execFile() with sanitized input
- c. Using eval()
- \bigcirc d. Using exec() with user input

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
- o. It does not store passwords securely
- od. It is vulnerable to SQL injection

Question 12

Complete

Mark 0.00 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
- b. The server would detect the modification and reject the request
- o. The token would expire immediately
- od. They would get logged out

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. JSON.stringify()
- c. console.log()
- 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?

- oa. Store JWT tokens in Local Storage without encryption
- b. Validate user roles and permissions before processing requests
- 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

d. It is vulnerable to CSRF

```
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 allows SQL Injection
    c. It exposes all users' details without authentication
```