

week 3 quiz

Total points 27/30

✓ If a website does not implement CSRF protection, what type of attack can *1/1 an attacker perform?

- Injection attacks
- Unauthorized actions on behalf of an authenticated user ✓
- Session hijacking
- Data interception

✓ How does a CSRF attack typically work? * 1/1

- By using malicious JavaScript embedded in a page to steal credentials
- By embedding a fake form in a site visited by the target user ✓
- By exploiting unvalidated input fields to send malicious payloads
- By intercepting and modifying HTTP requests in transit

✓ Which of the following CORS headers allows servers to specify which *1/1 domains can access their resources?

- Access-Control-Allow-Origin ✓
- Access-Control-Allow-Methods
- Access-Control-Allow-Headers
- Access-Control-Allow-Credentials

✓ Which HTTP method is most commonly exploited in a CSRF attack? * 1/1

- POST ✓
- GET
- DELETE
- PUT

✓ What is a "preflight" request in CORS? * 1/1

- A request that checks whether the origin is valid
- A request sent by the browser to ask the server whether the cross-origin request is allowed ✓
- A request to fetch user credentials
- A request to set custom headers

✓ What does CORS stand for? * 1/1

- Cross-Origin Request Sharing
- Cross-Origin Resource Sharing ✓
- Cross-Site Request Sharing
- Cross-Origin Request Security

✓ Which of the following HTTP headers is used to specify the origin of a *1/1 request in CORS?

- Accept
- Origin ✓
- User-Agent
- Content-Type

✓ Which header is used to allow cookies and credentials to be sent with cross-origin requests? *1/1

- Access-Control-Allow-Method
- Access-Control-Allow-Origin
- Access-Control-Allow-Credentials ✓
- Access-Control-Expose-Headers

✓ Which of the following is a vulnerability in CSRF if the application does not implement proper token validation? *1/1

- Blind SQL Injection
- Insecure Direct Object References
- Unauthenticated API requests
- CSRF attacks where an attacker can force an action on behalf of the user ✓

✓ Which of the following headers helps mitigate CSRF attacks by enforcing same-origin policies? *1/1

- X-XSS-Protection
- Content-Type
- X-Frame-Options
- SameSite cookie attribute ✓

✓ Which HTTP method is commonly used in preflight CORS requests? * 1/1

- POST
- GET
- PUT
- OPTIONS ✓

✓ Which CORS header can be used to expose specific response headers to the browser? *1/1

- Access-Control-Allow-Origin
- Access-Control-Expose-Headers ✓
- Access-Control-Allow-Methods
- Access-Control-Allow-Credentials

✗ Which kind of attack would CSRF be particularly dangerous against in a banking application? *0/1

- Modifying account balance
- Exploiting session fixation
- Performing a cross-site scripting attack ✗

Elevating user privileges

Correct answer

Modifying account balance

✓ Which of the following methods can help prevent CSRF attacks when using REST APIs? *1/1

Using JSON Web Tokens (JWT) ✓

Enabling Cross-Origin Resource Sharing (CORS)

Enforcing strict cookie policies

Validating user input on the server side

✓ What is the default behavior of a browser when a cross-origin request is made without proper CORS headers? *1/1

The request is allowed but with limited access

The request is blocked ✓

The browser automatically adds CORS headers

The request is logged for review

✓ What is the main purpose of a CSRF token? * 1/1

To verify user credentials

To ensure the request is coming from the same user who initiated the session ✓

To authenticate requests from cross-origin domains

To prevent network traffic interception

✓ Which of the following is a valid defense against CSRF attacks using cookies? *1/1

Encrypt the cookies

Make the cookies HTTPOnly

Set cookies with SameSite attribute to 'Strict' ✓

Use a token with every request to ensure validity

✓ What is the major risk if CORS headers are misconfigured or not set properly? *1/1

Cross-Site Scripting (XSS)

Sensitive data leakage across domains ✓

SQL injection

Code execution vulnerability

✗ Which of the following can prevent CSRF attacks? * 0/1

Using HTTPS

Enforcing Content Security Policy ✗

Implementing anti-CSRF tokens

Disabling cookies

Correct answer

Implementing anti-CSRF tokens

✓ How can a CSRF attack target a user who is authenticated on a website? * 1/1

- By injecting malicious content into the web page visited by the user
- By using a cross-origin script to read the user's cookies
- By sending unauthorized requests with the user's credentials without their knowledge ✓
- By forcing the user to log out of the website

✓ Which of the following scenarios would require a preflight CORS request? * 1/1

- A simple GET request without custom headers
- A POST request with a custom Content-Type ✓
- A GET request to a same-origin resource
- A GET request with no headers

✓ Which of the following describes the correct setting for the Access-Control-Allow-Origin header when a server allows requests from multiple origins? *1/1

- Set to "*" ✓
- Set to a list of origins separated by commas
- Set to the domain of the client
- It is not allowed to allow multiple origins

✓ Which technique is commonly used in a CSRF attack to bypass the Same-Origin Policy? *1/1

- DNS poisoning
- Image-based request ✓
- XMLHttpRequest
- Cookie hijacking

✓ Which of the following is an example of a CSRF attack? * 1/1

- Changing a user's password without their knowledge ✓
- Stealing a user's credentials via a keylogger
- Man-in-the-middle attack to alter requests
- Phishing an email to steal personal information

✓ Which of the following CORS headers specifies the HTTP methods allowed for cross-origin requests? *1/1

- Access-Control-Allow-Headers
- Access-Control-Allow-Methods ✓
- Access-Control-Expose-Headers
- Access-Control-Allow-Origin

✓ Which HTTP status code indicates that the server successfully handled the CORS request? *1/1

200 OK ✓

- 403 Forbidden
- 401 Unauthorized
- 405 Method Not Allowed

✓ **What does CSRF stand for? *** 1/1

- Cross-Site Resource Forgery
- Cross-Site Request Forgery ✓
- Cross-Security Request Forgery
- Cross-Server Request Forgery

✓ **Which of the following could result in a CORS error? *** 1/1

- Not including an Authorization header in a GET request
- The server does not include Access-Control-Allow-Origin header ✓
- The client does not include a User-Agent header
- The response code is 500

✗ **Which of the following techniques would NOT mitigate CSRF attacks effectively? *** 0/1

- Anti-CSRF tokens ✗
- User-agent validation
- SameSite cookie attribute
- Custom request headers

Correct answer

- User-agent validation

✓ **What is the purpose of the Access-Control-Allow-Headers header in CORS? *** 1/1

- To specify which HTTP methods are allowed
- To specify the headers allowed in the actual request ✓
- To expose specific headers to the browser
- To allow credentials to be included in the request

This content is neither created nor endorsed by Google. - [Terms of Service](#) - [Privacy Policy](#)

Does this form look suspicious? [Report](#)

Google Forms