# Sri Lanka Institute of Information Technology



Year 2 semester 2

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**SLIIT KANDY UNI** 

**BUG BOUNTY REPORT 9 Web Security – IE2062** 

B.Sc. (Hons) in information Technology Specializing in Cyber Security

# 1. Requirement gathering and analysis

Selected sub domain	aven.com
Hakerone URL	https://hackerone.com/aven_response/
IP address	18.239.153.78

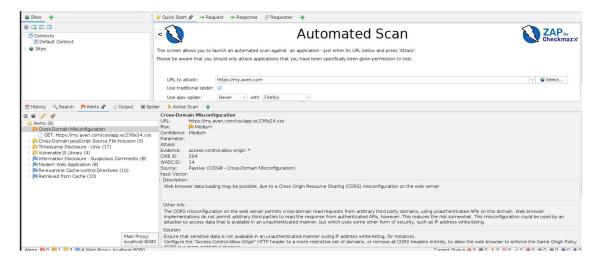
#### Subdomain list

#### Firewall detection:

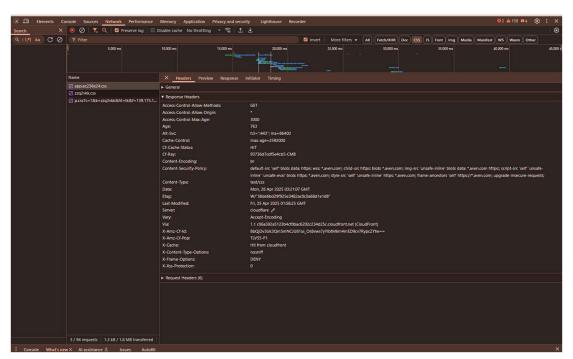
#### Nmap scan:

#### Nikto scan result:

### Active scan result from OWASP ZAP:



## **Developer Tools:**



# 2. Report Details

# 1. Vulnerability Title - Cross-Domain Misconfiguration

# 2. Vulnerability Description:

The server at <a href="https://my.aven.com">https://my.aven.com</a> is improperly configured to allow cross-origin resource sharing (CORS) for unauthorized domains. During testing, it was observed that the Access-Control-Allow-Origin header was set to a wildcard (\*), potentially allowing malicious third-party sites to access resources intended only for same-origin use.

Specifically, the asset app.ec236e24.css can be requested and loaded with a cross-origin without any restriction, suggesting a broader CORS misconfiguration across the domain.

Although the specific file tested (app.ec236e24.css) is a static CSS resource and not sensitive by itself, the misconfiguration could extend to API endpoints or sensitive assets in the future, exposing the system to:

- Unauthorized reading of confidential data
- Session hijacking (if credentials are allowed via Access-Control-Allow-Credentials)
- Cross-origin attacks such as data theft, account takeover, or privilege escalation

# 3. Affected Components:

1. <a href="https://my.aven.com/css/app.ec236e24.css">https://my.aven.com/css/app.ec236e24.css</a>

# 4. Impact Assessment:

# **OWASP** analysis:

Risk level	Medium
Confidence	Medium

# 5. Steps to reproduce -

## On owasp zap –

Start the application, input target URL and run an automated scan.

Observe alerts.

## • Network developer tools -

- Open the web application in your browser
- o Press F12 to open the **Developer Tools**.
- Go to the **Network** tab.
- o Refresh the page and look for the **HTTP Response Headers** section.
- o Look for the Access-Control-Allow-Origin: \*

# 6. Proposed mitigation or fix

- Restrict Access-Control-Allow-Origin to trusted, specific domains only (no wildcards, no reflection).
- Avoid setting Access-Control-Allow-Credentials: true unless absolutely necessary, and only with exact origin matches.
- Regularly audit CORS configurations, especially on authentication endpoints and sensitive API routes.
- Implement strict server-side validation for Origin headers.