

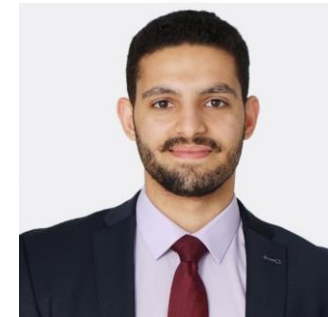


**OWASP  
ALGIERS**





**SPEAKER**



**Ahmed Hassan**

Cyber Security Consultant &  
Penetration Tester AUSTRIA (Vienna)

- Cyber Security Consultation since 6 years (more in the Self-Introduction section)

# Agenda

1. **Self-Introduction**
2. **What is a CVE?**
3. **Where can you find a suitable open-source Application for Testing?**
4. **Installing the open-source Application**
5. **Identification of a Vulnerability in the open-source Application**
6. **Reporting Identified Vulnerabilities: Methods and Platforms**
7. **CVE Acceptance and Publication**
8. **Questions from the audience & further Explanations (Q&A)?**





# Self-Introduction

Working since almost 6 years as a Cyber Security Engineer & Penetration Tester @ Condignum, AUSTRIA

Speaker at various international security conferences & Universities (Egypt, UAE, Saudi Arabia, Austria etc.)

Securing the Clients environment (Web, API, Active Directory, Mobile, Infrastructure etc.)



# Qualifications & professional Certifications

studied and working in Austria in the Cyber Security Field as Cyber Security Engineer, Penetration Tester and Bug Bounty Hunter



Certifications for advanced IT professionals



Certified EC-council Instructor  
Certified Ethical Hacker



Offensive Security Certified Professional  
Offensive Security Web Assessor



# Identified Vulnerabilities & 0-day Vulnerabilities

- Identified more than 52 CVEs. Some as an example:
- My GitHub Repo-Link: <https://github.com/ahmedvienna/CVEs-and-Vulnerabilities>

- [CVE-2024-0351](#)
- [CVE-2024-0350](#)
- [CVE-2024-0349](#)
- [CVE-2024-0348](#)
- [CVE-2024-0347](#)
- [CVE-2024-0262](#)
- [CVE-2024-1972](#)
- [CVE-2024-1922](#)
- [CVE-2024-1919](#)
- [CVE-2024-3735](#)
- [CVE-2024-7466](#)

## Exploitation and Public Announcements

The Cisco Product Security Incident Response Team (PSIRT) is not aware of any public announcements or malicious use of the vulnerabilities that are described in this advisory.

## Source

Cisco would like to thank Ahmed Hassan and Josef Hassan of [REDACTED] for reporting these vulnerabilities.

## URL

<https://sec.cloudapps.cisco.com/security/center/content/CiscoSecurityAdvisory/cisco-sa-spa-web-multi-7kvPmu2F>

Hall of Fame announcement and CVE assignment,  
for identifying a Zero-day Vulnerability in CISCO's  
Devices.



# What is a CVE ?





# CVE-Explanation

The Common Vulnerabilities and Exposures (CVE) system is a framework operated by the U.S. National Cybersecurity FFRDC and maintained by the Mitre Corporation. It provides standardized identification and naming of publicly known security vulnerabilities and other weaknesses in computer systems.

The primary goal of the CVE system is to prevent multiple naming of the same threats by different organizations and institutions. Each known vulnerability is assigned a unique identifier, which consists of the prefix CVE, the year of discovery, and a sequential number (e.g., CVE-2020-1234). This ensures the consistent identification of vulnerabilities and facilitates smooth information exchange between the various databases maintained by individual vendors.





# Criteria for requesting a CVE

Detailed Process how CVEs are reported and assigned:

<https://github.com/CVEProject/cveproject.github.io/blob/master/requester/reservation-guidelines.md>

The Common Vulnerabilities and Exposures (CVE) identifier can be requested when a security vulnerability in a software product or system meets specific criteria.

This process typically applies to different applications such as Desktop applications or even Web applications. It is essential to first clarify with the vendor whether they are authorized to request or assign CVEs.

The basic process for reserving a CVE ID is as follows:

1. [Determine if a CVE ID is needed and appropriate](#). If yes,
2. [Contact a vendor whose product is affected to disclose a vulnerability \(coordinated disclosure\)](#).
3. [Determine whether the request should be made to a vendor CNA](#). If no,
4. [Determine whether the request should be made to a third party coordinator CNA, or to a disclosure mailing list](#). If no,
5. [Request a CVE ID from DWF](#)
6. [Request a CVE ID from MITRE using the CVE Request web form](#).
7. [Provide the required information in the request](#).
8. [Receive a confirmation email with a reference number and save it for your records](#).
9. [Provide follow-up information as needed](#).
10. [Receive a CVE ID \(or an explanation if a CVE ID was not provided\)](#)
11. [Share the CVE ID with all parties](#).
12. [Include the CVE ID in the announcement of the vulnerability](#).
13. [Notify MITRE that the vulnerability has been made public using the CVE Request web form, and selecting "Notify CVE about a Publication."](#)

The CVE is then published by MITRE and will appear on the CVE List.



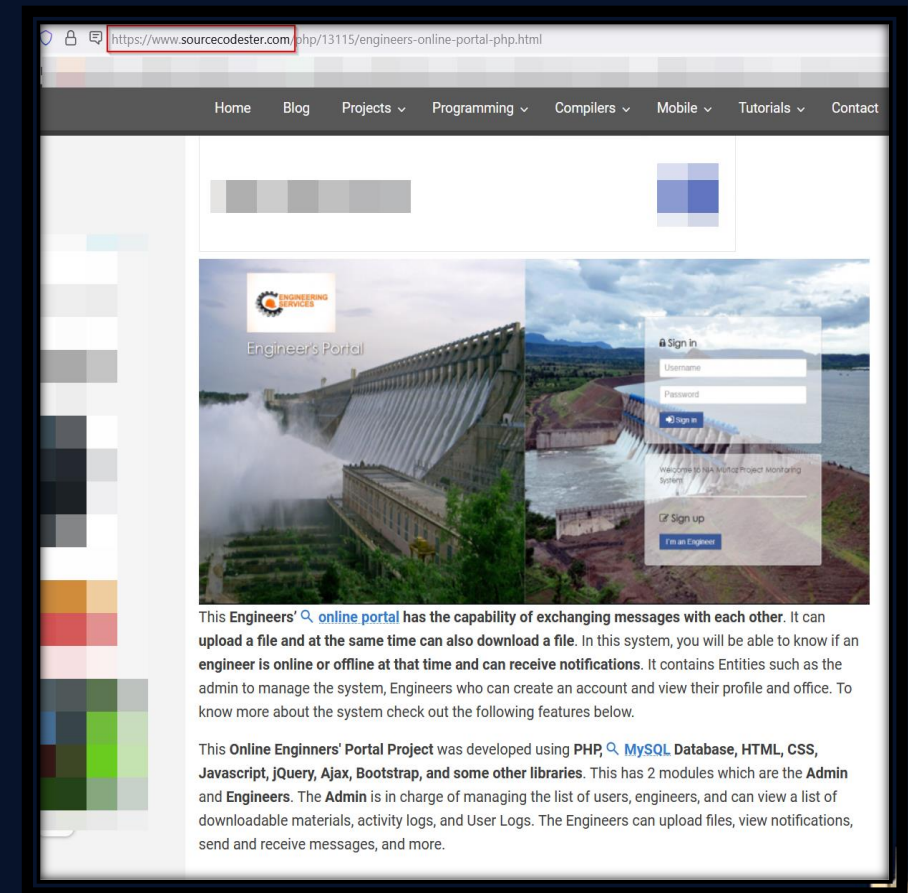
# Workflow for CVE Assignment

This outlines the complete workflow, from identifying the vulnerability to receiving a CVE assignment.



# Where can you find a suitable open-source Application for Testing?

1. This website hosts a vast collection of open-source applications, of which 99% are legitimate candidates for requesting a CVE.
2. The Website link: <https://www.sourcecodester.com/>



# Installing the open-source Application

The installation of the application is well-documented, making it easy and straightforward to download.

- **Download** and **Install** any **local web server** such as **XAMPP/WAMP**.
- **Download** the provided source code **zip** file. (*download button is located below*)

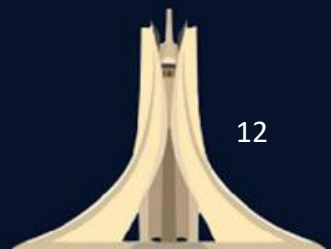
## Installation/Setup

1. **Open** your **XAMPP/WAMP's Control Panel** and start the **Apache** and **MySQL**.
2. **Extract** the **downloaded source code zip** file.
3. If you are using **XAMPP**, **copy** the extracted source code folder and **paste** it into the **XAMPP's "htdocs" directory**. And If you are using **WAMP**, **paste** it into the **"www" directory**.
4. **Browse** the **PHPMyAdmin** in a **browser**. i.e. <http://localhost/phpmyadmin>
5. **Create** a **new database** naming **capstone**.
6. **Import** the provided **SQL** file. The file is known as **capstone.sql** located inside the **db** folder.
7. **Browse** the **Engineers Online Portal Project** in a **browser**. i.e. [http://localhost/nia\\_munoz\\_monitoring\\_system/ring\\_system](http://localhost/nia_munoz_monitoring_system/ring_system) and [http://localhost/nia\\_munoz\\_monitoring\\_system/admin](http://localhost/nia_munoz_monitoring_system/admin) for the admin side.

## Default Admin Access

Username: **admin**

Password: **admin**





# Identification of a Vulnerability in the open-source Application

**Assuming we have identified a vulnerability in this open-source application, it is important to thoroughly document all details before proceeding to the reporting phase.**

**In this phase, we need to collect screenshots, videos, Payloads used and both the request and response data to ensure we provide the vendor with all necessary information.**

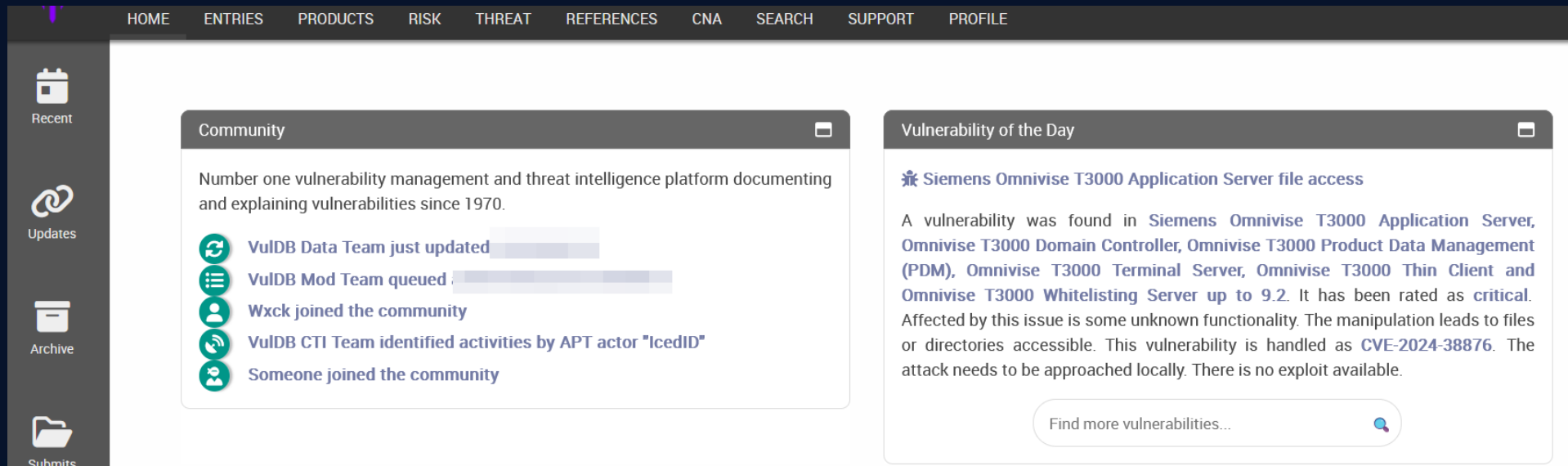


# Reporting identified Vulnerabilities: Methods and Platforms

If you can locate the vendor details, such as those for Cisco, and contact their security team, this should be your first step. They may respond and have the capability to assign a CVE.

In cases where you cannot find the security team or if the company shows no interest in the security aspects of their products, you will need to reach out to a recognized CVE authority for assistance in assigning a CVE after reviewing your vulnerability.

The recognized CVE authority Website: <https://vuldb.com/>



The screenshot displays the VulnDB website interface. The top navigation bar includes links for HOME, ENTRIES, PRODUCTS, RISK, THREAT, REFERENCES, CNA, SEARCH, SUPPORT, and PROFILE. A left sidebar contains icons for Recent, Updates, Archive, and Submits. The main content area is divided into two sections: 'Community' and 'Vulnerability of the Day'. The 'Community' section features a description of VulnDB as a platform for documenting vulnerabilities since 1970, followed by a list of recent updates and community events. The 'Vulnerability of the Day' section highlights a critical vulnerability in Siemens Omnivise T3000 Application Server, detailing its impact and the assigned CVE-2024-38876. A search bar at the bottom of this section allows users to find more vulnerabilities.

HOME ENTRIES PRODUCTS RISK THREAT REFERENCES CNA SEARCH SUPPORT PROFILE

Recent

Updates

Archive

Submits

Community

Number one vulnerability management and threat intelligence platform documenting and explaining vulnerabilities since 1970.

- VulDB Data Team just updated
- VulDB Mod Team queued
- Wxck joined the community
- VulDB CTI Team identified activities by APT actor "IcedID"
- Someone joined the community

Vulnerability of the Day

✳ Siemens Omnivise T3000 Application Server file access

A vulnerability was found in Siemens Omnivise T3000 Application Server, Omnivise T3000 Domain Controller, Omnivise T3000 Product Data Management (PDM), Omnivise T3000 Terminal Server, Omnivise T3000 Thin Client and Omnivise T3000 Whitelisting Server up to 9.2. It has been rated as critical. Affected by this issue is some unknown functionality. The manipulation leads to files or directories accessible. This vulnerability is handled as CVE-2024-38876. The attack needs to be approached locally. There is no exploit available.

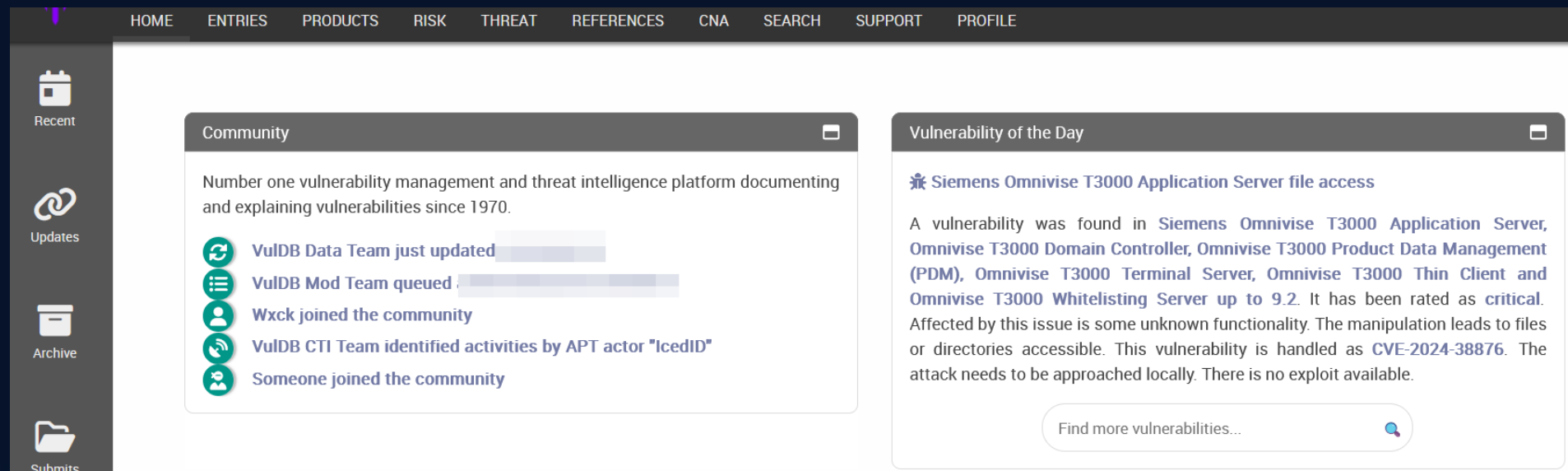
Find more vulnerabilities...

# Detailed Procedure for reporting a Vulnerability

If you can locate the vendor details, such as those for Cisco, and contact their security team, this should be your first step. They may respond and have the capability to assign a CVE.

In cases where you cannot find the security team or if the company shows no interest in the security aspects of their products, you will need to reach out to a recognized CVE authority for assistance in assigning a CVE after reviewing your vulnerability.

The recognized CVE authority Website: <https://vuldb.com/>



The screenshot displays the VulDB website interface. At the top is a navigation bar with links: HOME, ENTRIES, PRODUCTS, RISK, THREAT, REFERENCES, CNA, SEARCH, SUPPORT, and PROFILE. On the left is a sidebar with icons for Recent, Updates, Archive, and Submits. The main content area is divided into two sections. The 'Community' section on the left contains a description: 'Number one vulnerability management and threat intelligence platform documenting and explaining vulnerabilities since 1970.' Below this is a list of recent updates: 'VulDB Data Team just updated', 'VulDB Mod Team queued', 'Wxck joined the community', 'VulDB CTI Team identified activities by APT actor "IcedID"', and 'Someone joined the community'. The 'Vulnerability of the Day' section on the right features a title 'Siemens Omnivise T3000 Application Server file access' with a star icon. The text describes a vulnerability found in Siemens Omnivise T3000 Application Server, Omnivise T3000 Domain Controller, Omnivise T3000 Product Data Management (PDM), Omnivise T3000 Terminal Server, Omnivise T3000 Thin Client and Omnivise T3000 Whitelisting Server up to 9.2. It is rated as critical and affects unknown functionality, leading to accessible files or directories. The vulnerability is handled as CVE-2024-38876, and the attack must be approached locally with no exploit available. At the bottom of this section is a search bar with the text 'Find more vulnerabilities...' and a magnifying glass icon.

# Submitting the form and receiving the Response

Here we can review the message received after submitting the CVE request, along with the response confirming the approval and issuance of a new, valid CVE.

[VulDB] Submit received > [redacted]

**VulDB Support Team**  
an mich ▾

Dear ahmed8199,

You have just submitted a new entry to be reviewed:

- \* Title: <https://pmweb.com/> PMWeb PMWeb Version 7.2.00 stored XSS after bypassing the Web Application Firewall
- \* Source: [redacted]
- \* CVE Requested: yes

Our team is going to review your submit and will process it as quickly as possible. You may receive an email as soon as it is processed

1

[VulDB] Submit # [redacted] accepted (CVE-2024-7466) Posteingang x

**VulDB Support Team**  
an mich ▾

Dear ahmed8199,

You have submitted a new entry to be reviewed:

- \* Submit # [redacted]
- \* Title: <https://pmweb.com/> PMWeb PMWeb Version 7.2.00 stored XSS after bypassing the Web Application Firewall
- \* Disclosure: [redacted]
- \* Submit: [redacted]

Our team did review your submission and accepted it as a new entry (will be live in approx. 15 minutes):

- \* Entry: <https://vuldb.com/> [redacted]
- \* CVE: CVE-2024-7466

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# Successful CVE Acceptance and Publication


[Home](#) [Submit](#)

## Submit # [redacted]: <https://pmweb.com/> PMWeb PMWeb Version 7.2.00 stored XSS after bypassing the Web Application Firewall [info](#)

**Title** <https://pmweb.com/> PMWeb PMWeb Version 7.2.00 stored XSS after bypassing the Web Application Firewall

**Description** We have identified a stored Cross-Site Scripting (XSS) vulnerability in this application. Initially, the Web Application Firewall (WAF) in place prevented us from executing JavaScript code. To demonstrate this, we will start with a basic XSS payload that the WAF blocks.

Subsequently, we will present our custom advanced payload that successfully bypassed the WAF and resulted in a stored XSS in all input fields of the application. Let's proceed with the demonstration.

**Source**  [redacted]

**Request CVE** Yes

**User** ahmed8199 (ID 60803)

**Submission** 07/28/2024 09:18 PM (9 days ago)

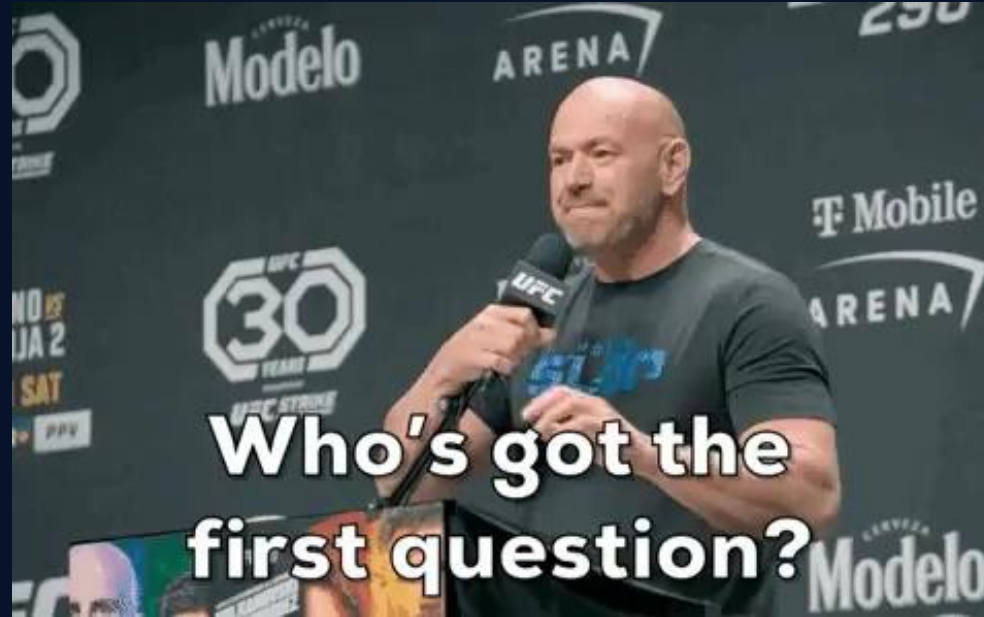
**Moderation** 08/04/2024 10:20 AM (7 days later)

**Status** Accepted

**VulDB Entry** Published

**Points** 20

**Embargo** [redacted]



**THANK YOU**

**My LinkedIn: <https://www.linkedin.com/in/ahmed-hassan-79559487/>**



**OWASP  
ALGIERS**

**Contact us**

**ALGIERS-LEADERS@OWASP.ORG**

**<https://owasp.org/www-chapter-algiers/>**

