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Name	Arachini: Automated Vulnerability Scanning	
URL	URL <a href="https://www.attackdefense.com/challengedetails?cid=2056">https://www.attackdefense.com/challengedetails?cid=2056</a>	
Туре	DevSecOps: Dynamic Code Analysis	

**Important Note:** This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic. Also, note that the IP addresses and domain names might be different in your lab.

# **Challenge Description**

<u>Arachni</u> is an open-source framework for performing dynamic analysis on web applications.

The Arachni instance is running in the lab. The credentials provided below can be used to log in to the Arachni Framework.

Username	Password
admin@admin.admin	administrator

Three examples of vulnerable web portals are also provided. The details of these portals:

Web Portal	Web Portal URL
School Homework Web Portal	school-homework
Article Web Portal	article-site

Job Advertisement Web Portal	job-site

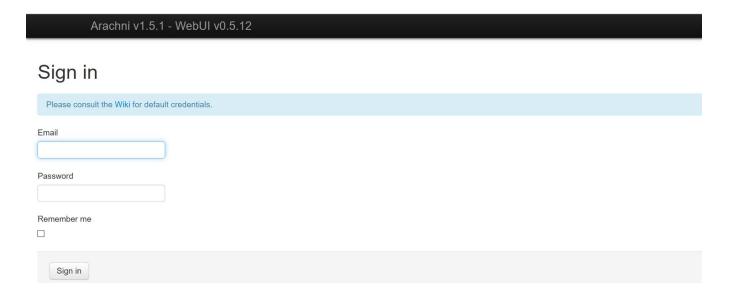
**Objective:** Identify the vulnerabilities in web applications using Archini.

# **Lab Setup**

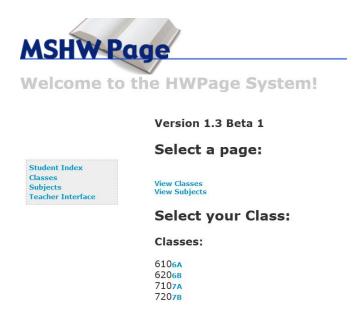
On starting the lab, the following interface will be accessible to the user.

arachni School Homework Article Site Job Site	E
arachni	School Homework
Article Site	Job Site

On choosing (clicking the text in the center) top left panel, a web UI of **Arachni** will open in a new tab



Similarly on selecting the top right panel, a web UI of **School Homework UI** will open in a new tab.



On selecting the bottom left panel, a web UI of **Article Site UI** will open in a new tab.

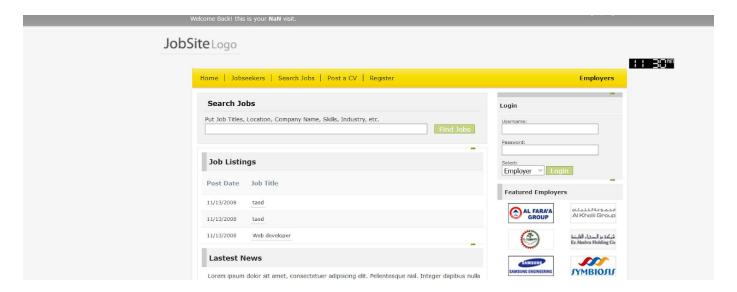
# **Pentester Academy**



### All Categories

- Arts & Entertainment
- Business

And on selecting the bottom right panel, a web UI of **Job Site UI** will open in a new tab.





**Step 1:** Open the Arachni Web UI from the provided Interface.

# Sign in Please consult the Wiki for default credentials. Email Password

Login using the credentials provided in the challenge description

### **Credentials:**

• Username: admin@admin.admin

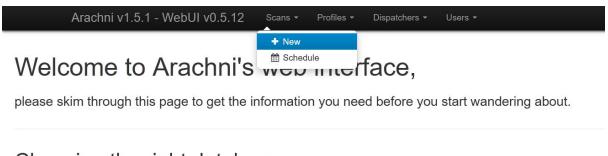
• Password: administrator

	Arachni v1.5.1 - WebUI v0.5.12	Scans ▼	Profiles ▼	Dispatchers ▼	Users ▼		
Signed in s	successfully.						
Welcome to Arachni's web interface,							
please skim through this page to get the information you need before you start wandering about.							

Choosing the right database

This is the web interface of the Arachni framework from where a user can start scans on the target websites.

Step 2: Click on the "New" button under Scans drop-down menu.



# Choosing the right database

**Example 1:** School Homework

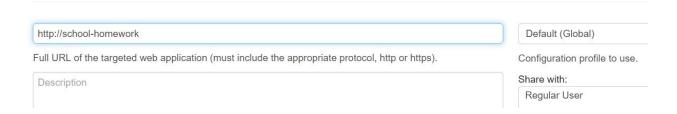
Step A: Enter the target URL in the attack field.

URL: http://school-homework

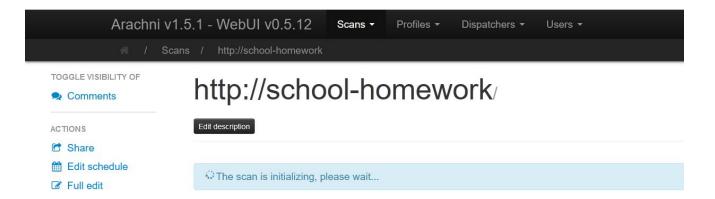


# Start a scan

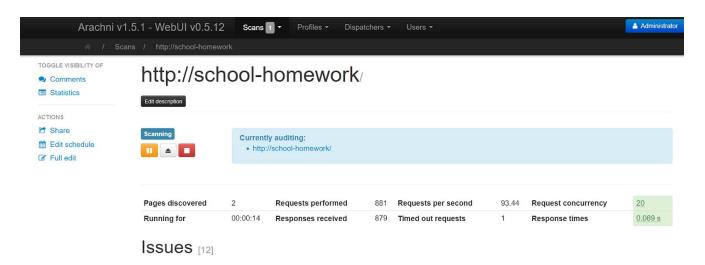
The only thing you need to do is provide some basic information and make a simple choice about



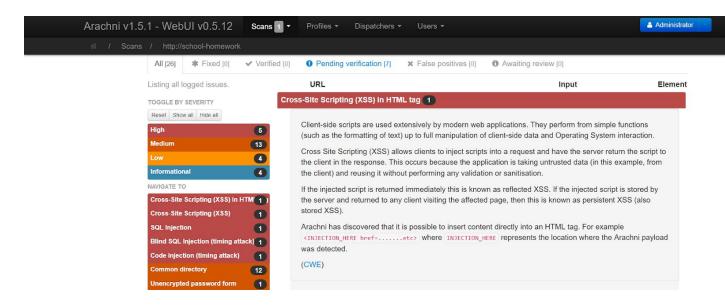
Click on the Go button.



The tool will start the automated attack on the target website.



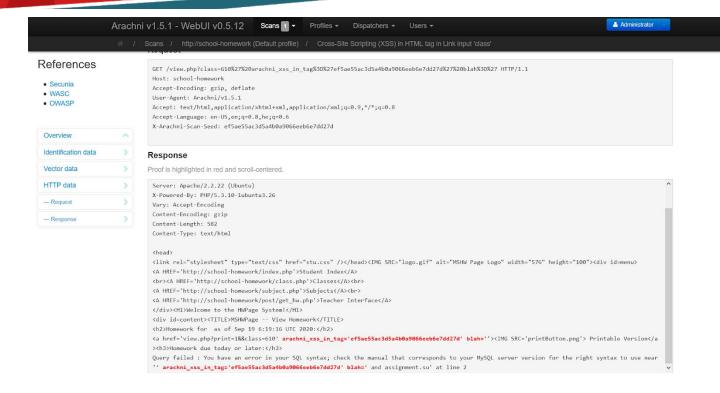
Step B: Scroll down and check the issues found by the tool.



### **Issues Detected**

- XSS vulnerability
- Blind SQL Injection
- Code Injection

**Step C:** The detailed report for a detected vulnerability can be viewed by clicking the question mark.

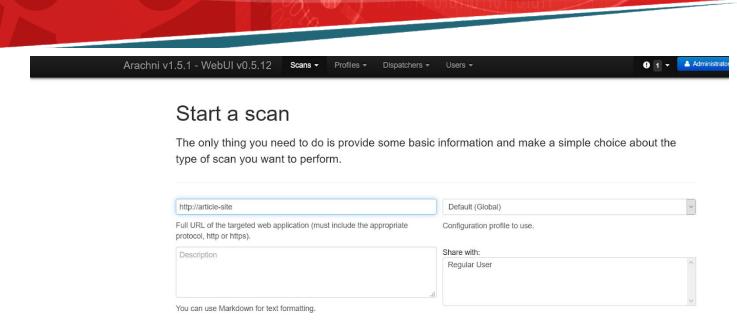


Here, the details of XSS vulnerability are provided. The payload and response of the request are highlighted in red.

# **Example 2: Article Site**

Step A: Enter the target URL in the attack field

URL: http://article-site



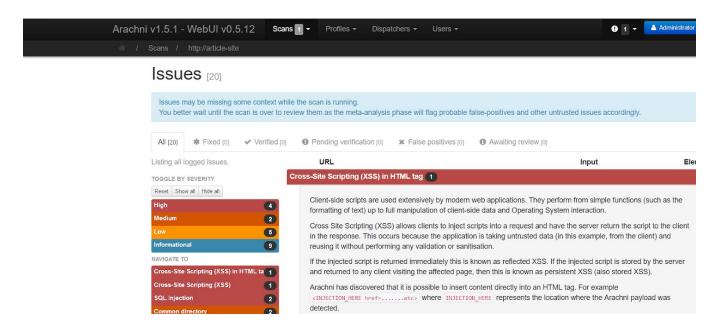
Click on the Go button to start the attack on the website.



The tool will start the automated attack on the target website.



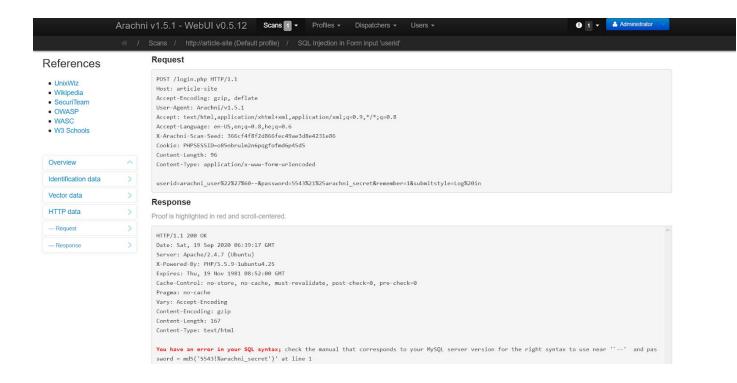
Step B: Scroll down and check the issues found by the tool.



### **Issues Detected**

- Cross-Site Scripting
- SQL Injection

**Step C:** The detailed report for a detected vulnerability can be viewed by clicking the question mark.

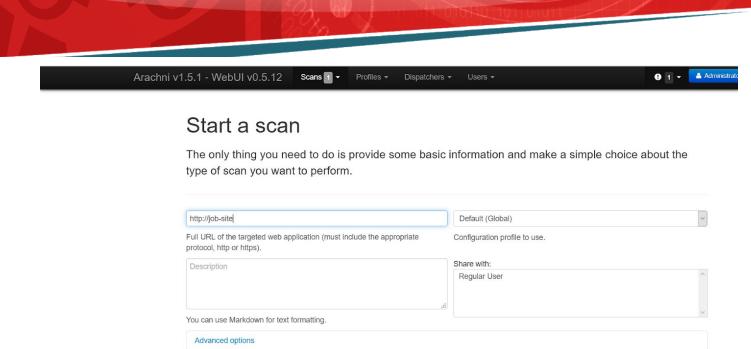


Here, The detailed summary of the SQL Injection is provided where the SQL error is highlighted in the red colour.

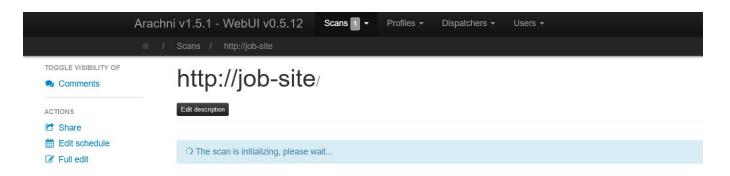
## **Example 3: Job Site**

Step A: Enter the target URL in the attack field

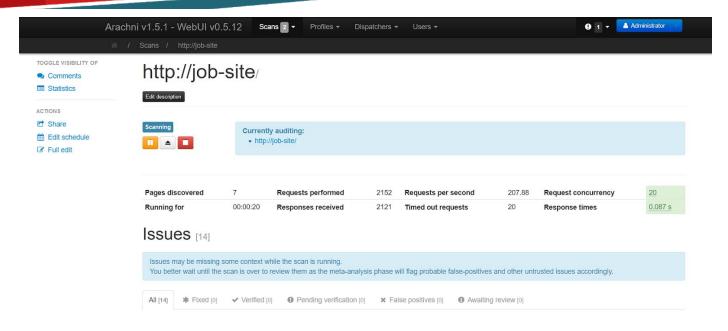
URL: http://job-site



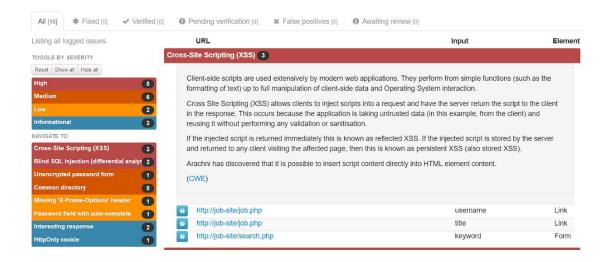
Click on the Go button.



Step B: Scroll down and check the issues found by the tool.



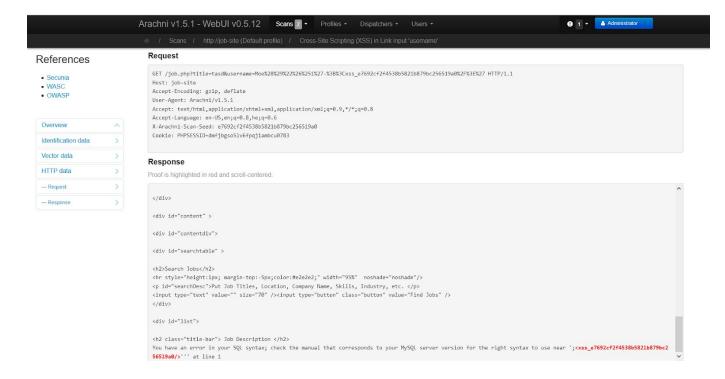
Step C: Scroll down and check the issues found by the tool



### **Issues Detected**

- Cross-Site Scripting
- SQL Injection

**Step D:** The detailed report for a detected vulnerability can be viewed by clicking the question mark.



Here, The detailed summary of the vulnerabilities is provided where the XSS payload is highlighted in the red colour.

# Learnings

Perform Automated tests on the websites using Arachni Framework.