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Name	RIPS: Statically Scanning PHP Code
URL	https://www.attackdefense.com/challengedetails?cid=2158
Type	DevSecOps Basics: Static Application Security Testing

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

The RIPS scanner will audit the PHP code statically for vulnerabilities.

A RIPS scanner instance is provided to the user and the source code for two sample applications is provided in the root directory.

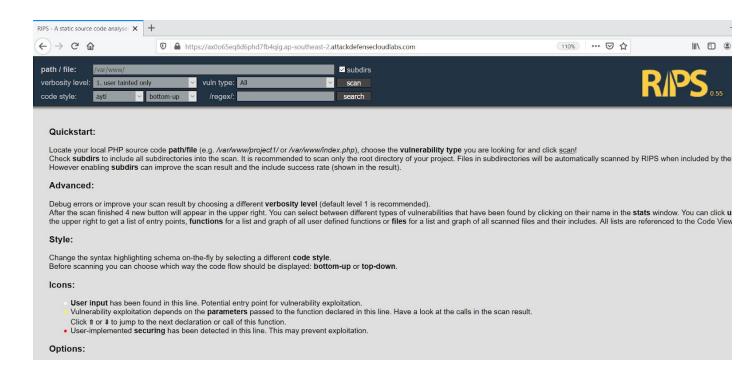
Objective: Use the rips scanner utility to find vulnerabilities in the application!

Instructions:

- The source code of applications is provided at /github-repos
- The names of the projects present in the github-repos are pagekit and mejiro

Solution

Step 1: Open the RIPS scanner website.



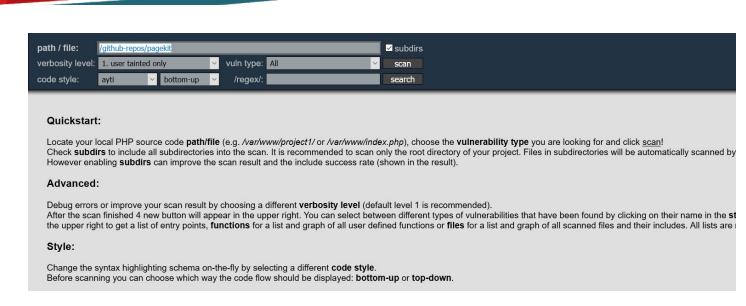
The path/file will accept the path to the project directory and the names of projects have been provided in the challenge description. The base directory of the projects is /github-repos/

We will take one example at a time and run the tool on that.

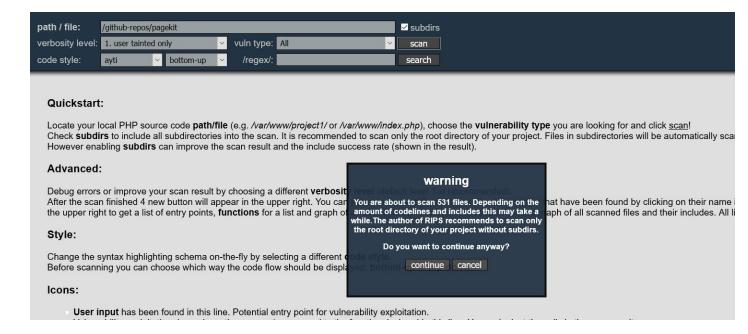
Example 1: pagekit

Step 1: Pass the project directory of pagekit in the path/file section.

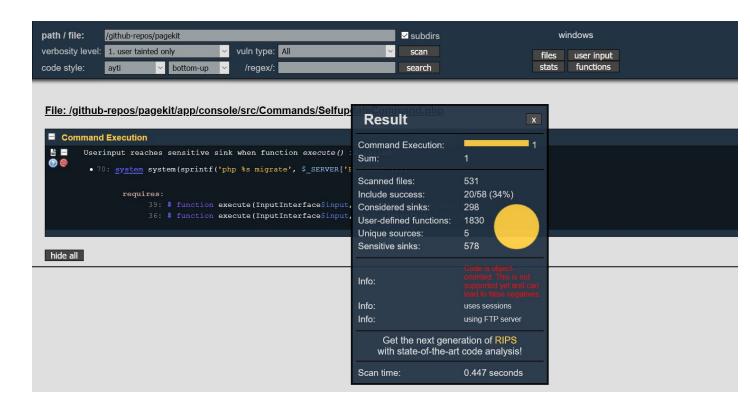
PATH: /github-repos/pagekit



Step 2: Press the scan button.

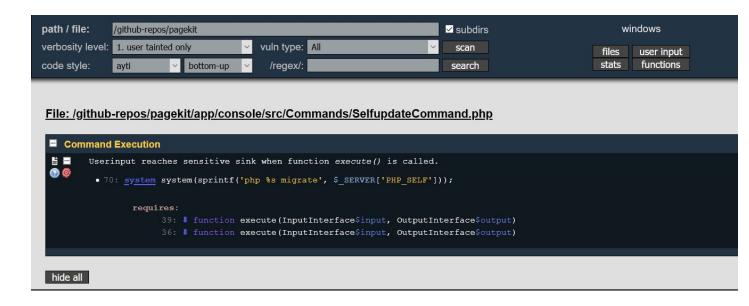


Click on the 'continue' button to scan the project source code.



The scan has been completed and the RIPS scanner found one vulnerability in the project.

Step 3: Close the dialog box and check the source code displayed by RIPS scanner.



The function "execute" is getting the user-input directly without any sanitization which could lead to command injection.

Issues Detected

Command Injection

Example 2: mejiro

Step 1: Change to the project directory in the path/file section.

PATH: /github-repos/mejiro

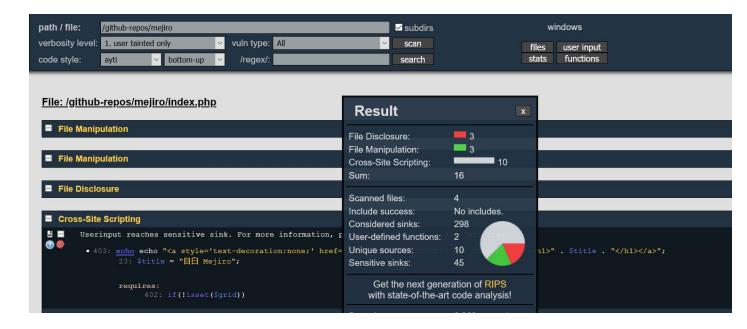


Step 2: Press the scan button.



The RIPS scanner revealed multiple vulnerabilities in the project's source code.

Step 3: Click on any vulnerability to check the source code. In this case, Cross-site scripting is selected



Close the result dialogue box to check the vulnerable source code.

In this case, the filename is getting passed without being checked or sanitised, hence a malicious user can trigger XSS attack by uploading an image with the malicious file name.

Issues Detected:

- File Disclosure
- File Manipulation
- Cross-Site Scripting

Learnings

Perform Static Code Analysis using the RIPS tool.

References:

- Pagekit (https://github.com/pagekit/pagekit.git)
- Mejiro (https://github.com/dmpop/mejiro.git)