

Module 15 Challenge Submission File

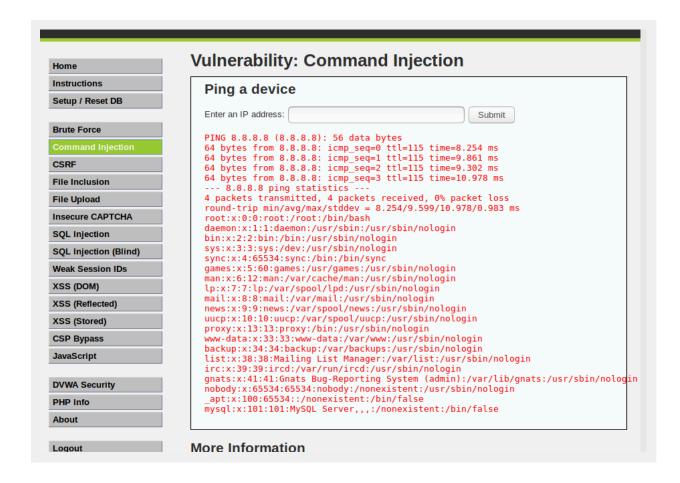
Testing Web Applications for Vulnerabilities

Make a copy of this document to work in, and then respond to each question below the prompt. Save and submit this completed file as your Challenge deliverable.

Web Application 1: Your Wish is My Command Injection

Provide a screenshot confirming that you completed this exploit:

8.8.8.8 && cat ../../../etc/passwd



8.8.8.8 && cat ../../../etc/hosts

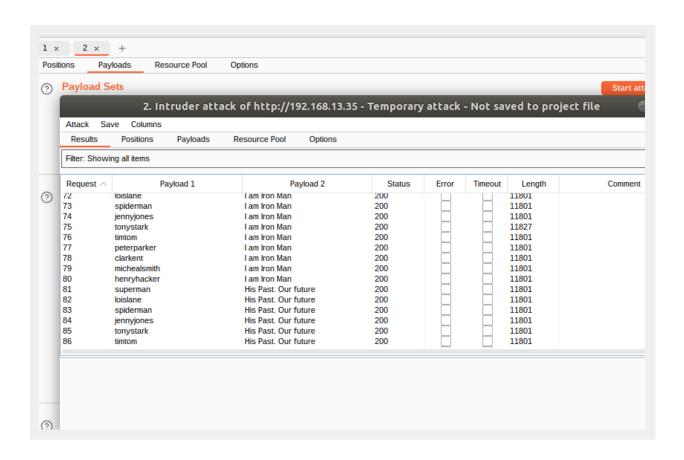


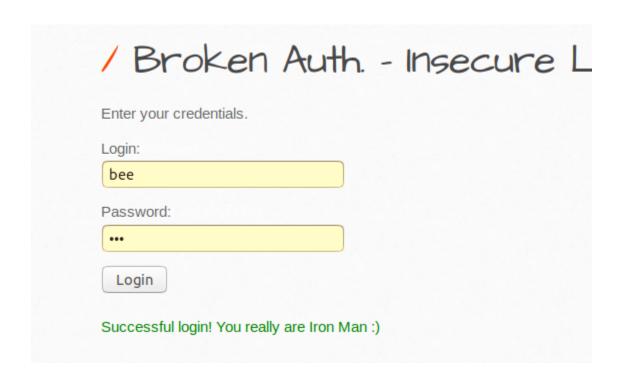
Write two or three sentences outlining mitigation strategies for this vulnerability:

- 1. Separation of confidential files from the web server and directories that are accessible.
- 2. Permissions should be granted to restrict the accessibility of web server accounts.
- 3. Use of Server-side validation that will not enable the selection of unintended files.

Web Application 2: A Brute Force to Be Reckoned With

Provide a screenshot confirming that you completed this exploit:





The chart shows that Tony Stark and I are Iron Man, and we have different numbers from others.

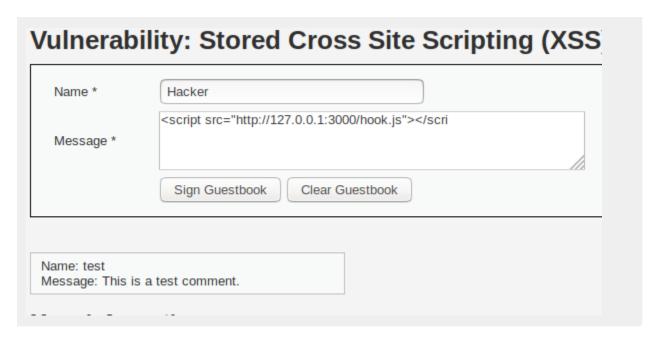
The number is 11827.

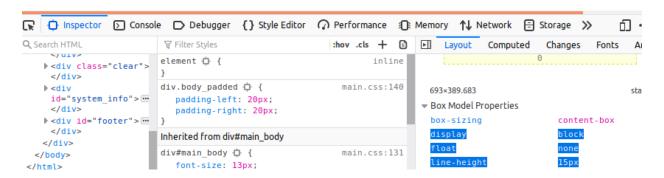
Write two or three sentences outlining mitigation strategies for this vulnerability:

- 1. Users' input should not be trusted. Instead, output should be encoded.
- 2. Strong usernames and passwords should be implemented with multi-factor authentication.
- 3. Introduce a lockout after a certain number of failed login attempts.

Web Application 3: Where's the beef?

Provide a screenshot confirming that you completed this exploit:





Write two or three sentences outlining mitigation strategies for this vulnerability:

- 1. The most commonly used is Input validation, which mitigates cross-site scripting.
- 2. Internet Protocol (IP) location technology with fraud profile data should be used for fraud detection and prevention.

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