

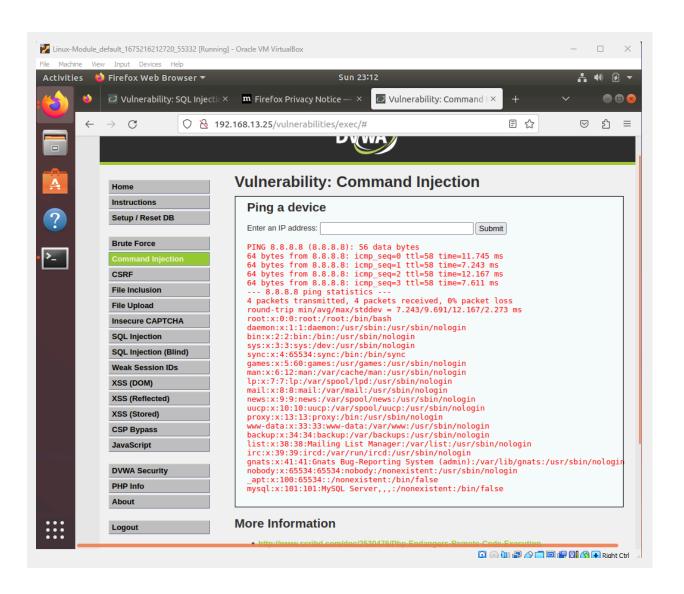
Module 15 Challenge Submission File

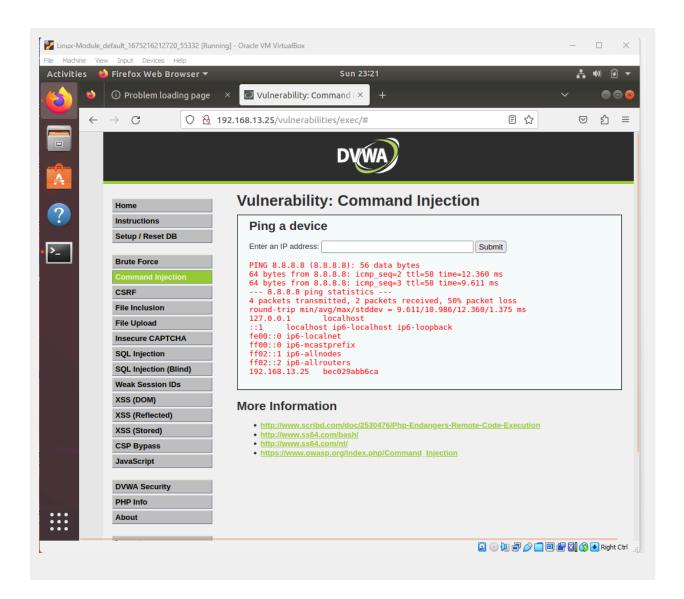
Testing Web Applications for Vulnerabilities

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 successfully completed this exploit:



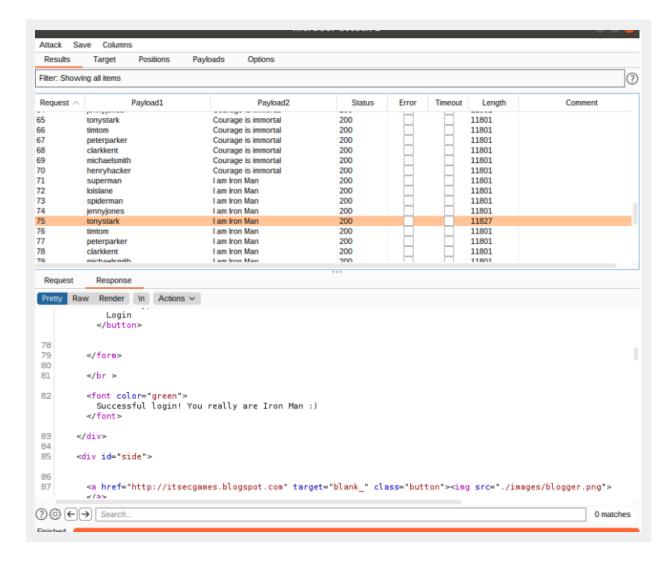


Write two or three sentences outlining mitigation strategies for this vulnerability:

- 1. Implement proper input validation techniques to prevent malicious input from being executed as commands. Sanitize user input to remove any potentially harmful characters or sequences.
- Ensure that the user executing the command has the minimum necessary privileges required to carry out the task, reducing the potential impact of unauthorized access to sensitive files. Limit access rights to critical system files such as /etc/passwd and /etc/hosts to authorized users and processes only.

Web Application 2: A Brute Force to Be Reckoned With

Provide a screenshot confirming that you successfully completed this exploit:

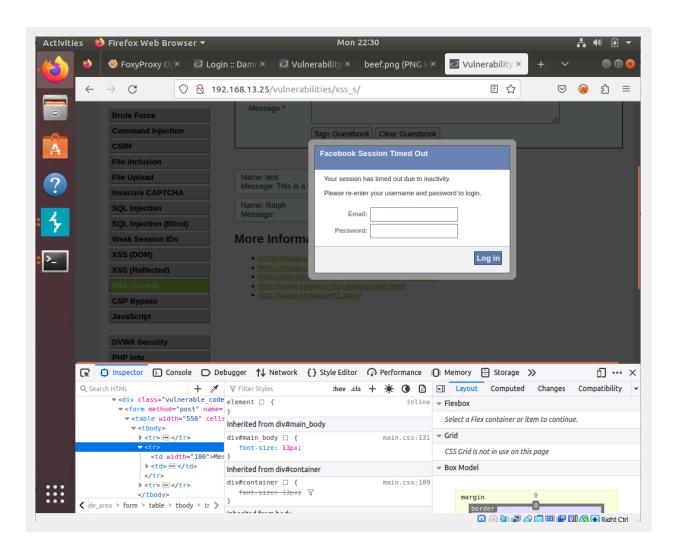


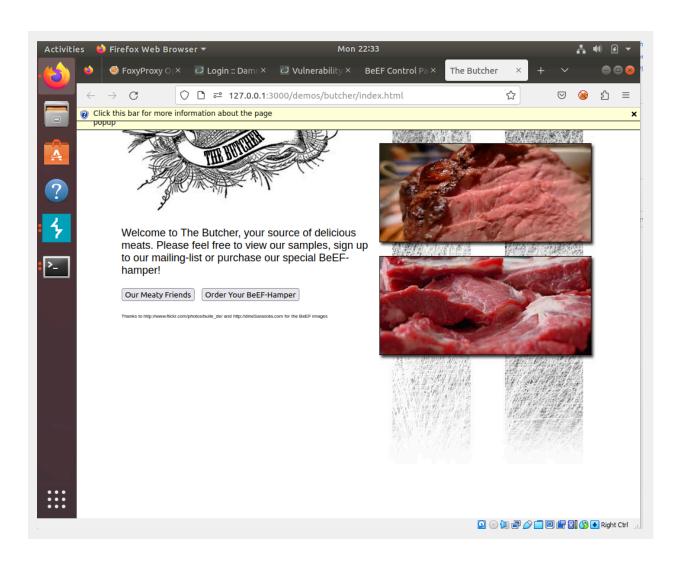
Write two or three sentences outlining mitigation strategies for this vulnerability:

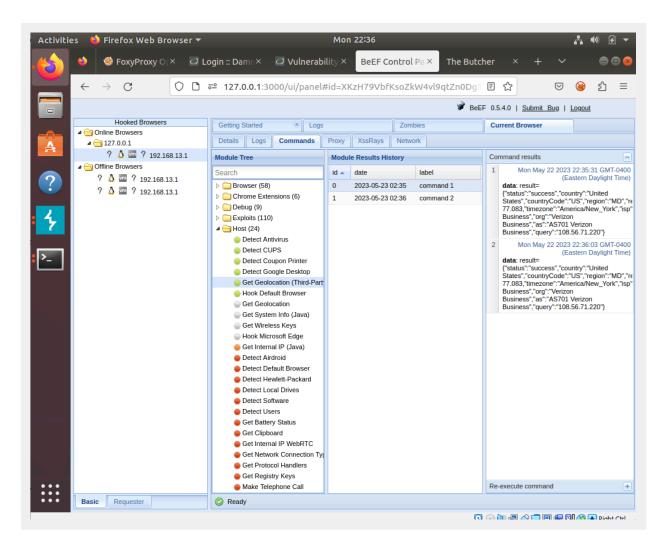
- 1. Require complex usernames and passwords to help increase the strength of authentication.
- 2. Implement a multi-factor authentication to add an additional layer of security.
- 3. Enable a lockout policy after a certain number of failed attempts.

Web Application 3: Where's the BeEF?

Provide a screenshot confirming that you successfully completed this exploit:







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

- 1. Implement strong input validation on both the client and server sides.
- 2. Properly encode and sanitize user-generated content before displaying in web pages.
- 3. Implement a content security policy on the web application.