

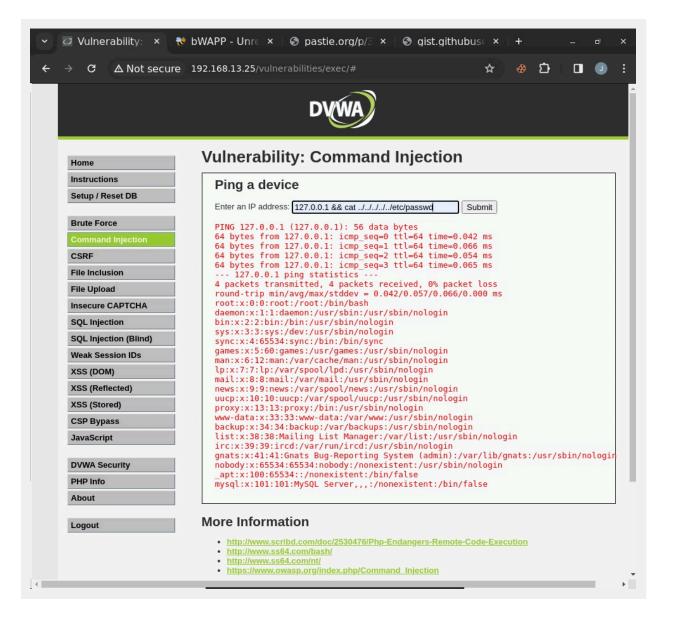
Module 15 Challenge Submission File

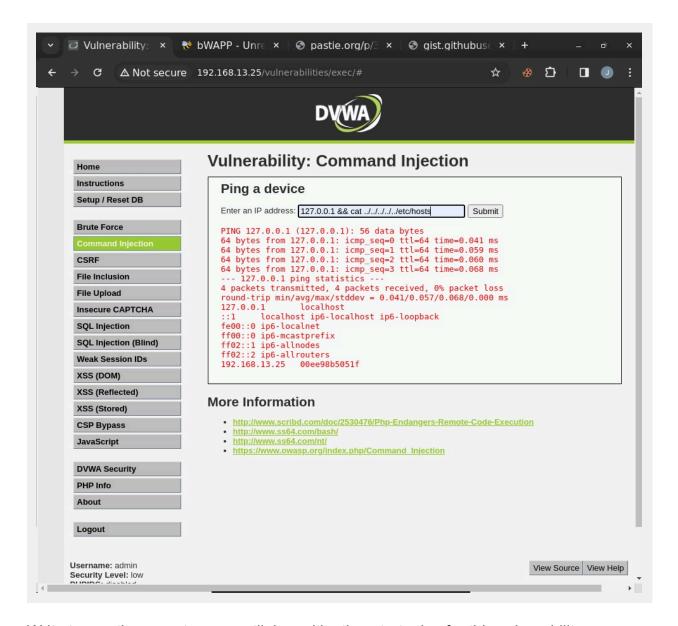
Testing Web Applications for Vulnerabilities

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:



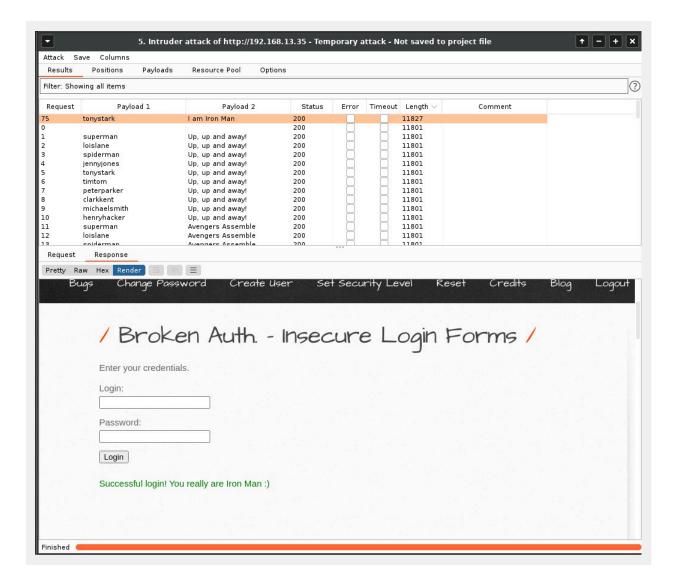


Write two or three sentences outlining mitigation strategies for this vulnerability:

Create a server side validation limiting th\e types of allowed characters to #s and the period. This would prevent someone from being able to type in the necessary commands for this exploit. The confidential data could also be housed in a separate server from the web app so that even if the exploit were attempted, the data would not be there to take.

Web Application 2: A Brute Force to Be Reckoned With

Provide a screenshot confirming that you successfully completed this exploit:

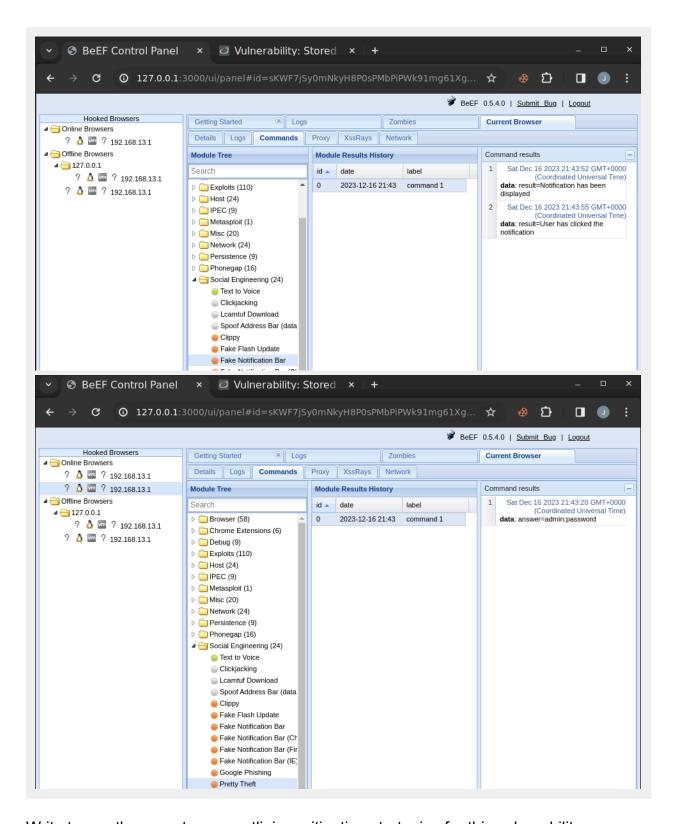


Write two or three sentences outlining mitigation strategies for this vulnerability:

To mitigate the likelihood of a brute force attack in this scenario, I would recommend a lockout after 3 failed attempts, requirement of multi-factor authentication, and require all employees to change passwords as soon as it was known this list was leaked. The combination of MFA and lockout should all but eliminate this risk.

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:

One way to mitigate this vulnerability would be server side validation limiting the type of characters that can be entered in this field. For example, allow letters, numbers, and very specific special characters. Specifically, the < & / should not be included in those characters allowed. You could also use http response headers to prevent a malicious script from being able to run.

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