

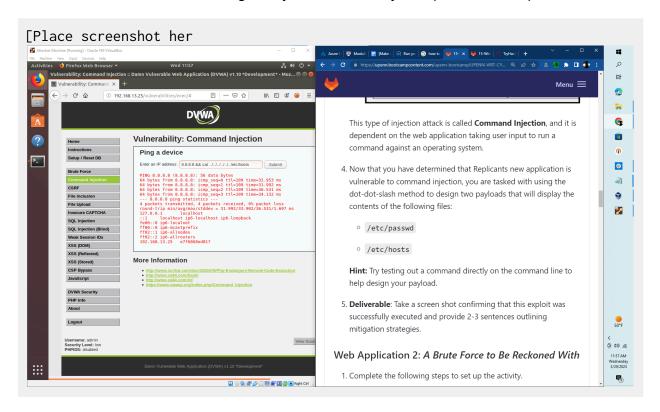
# Module 15 Challenge Submission File

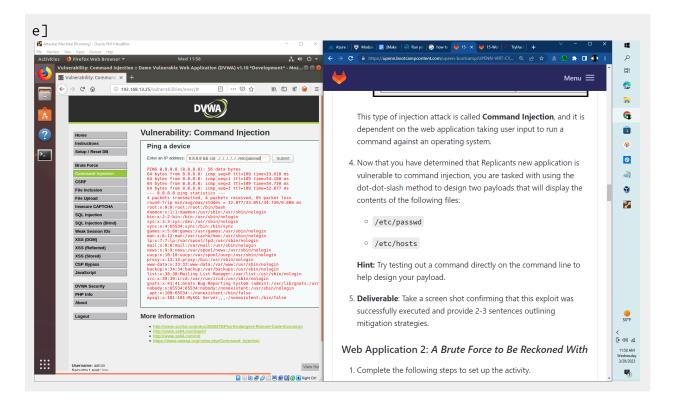
## **Testing Web Applications for Vulnerabilities**

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:





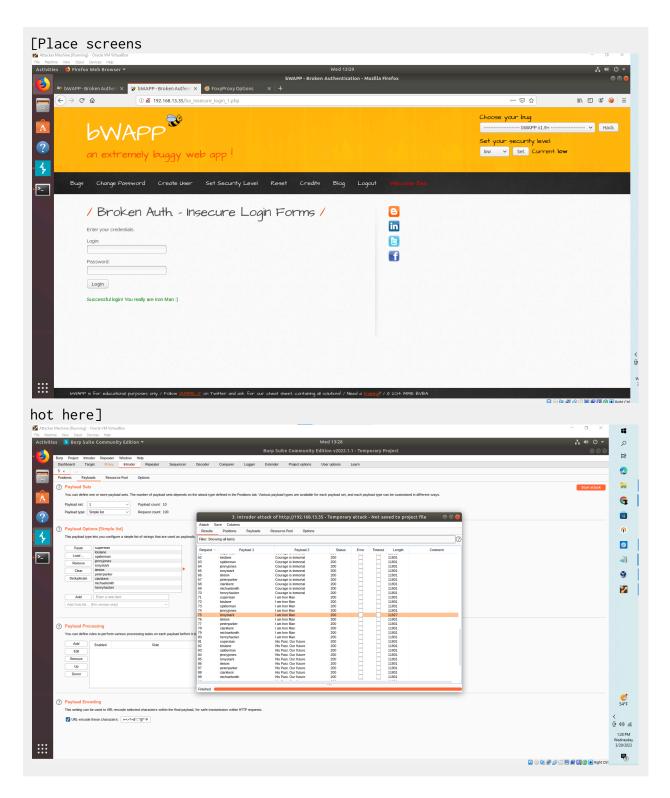
Write two or three sentences outlining mitigation strategies for this vulnerability:

One way to mitigate the problem is to hide the error message on the web application but that is not totally safe cause hackers can exploit blind os commands. According to portswinger.net, having validating parameters in an API is very necessary. Also validating permitted values, the input is a number, or that the input only contains strings with no other syntax, or whitespace.

https://www.imperva.com/learn/application-security/command-injection/ https://portswigger.net/web-security/os-command-injection

### Web Application 2: A Brute Force to Be Reckoned With

Provide a screenshot confirming that you successfully completed this exploit:



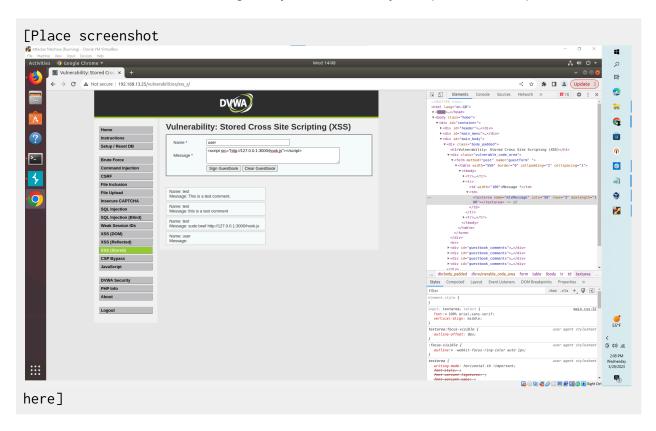
Write two or three sentences outlining mitigation strategies for this vulnerability:

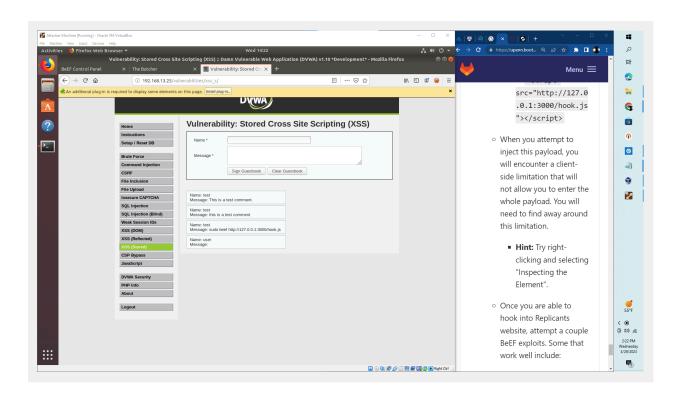
Some ways to help prevent brute force attacks are having a strong password. Also limit login attempts and using a plugin that once they exeed the number of attempts

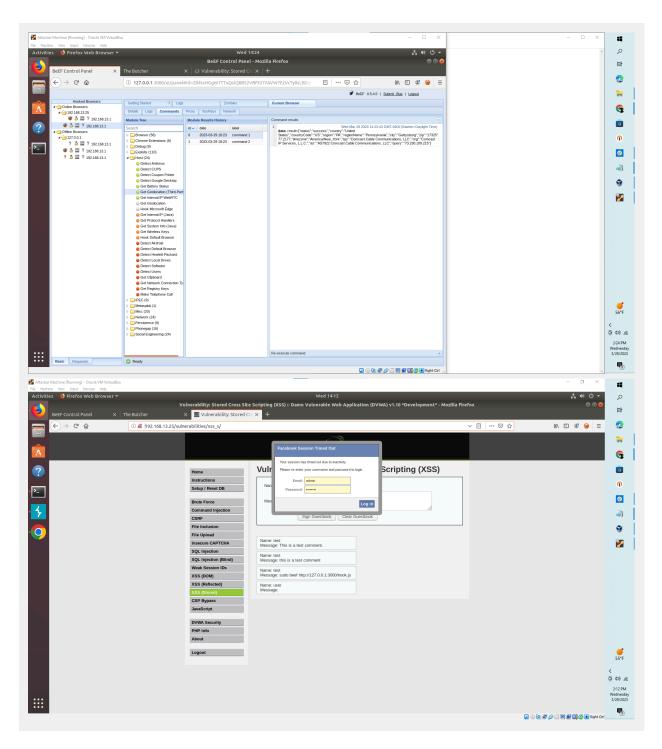
their ip will be banned from the site for a certain about of time. Also monitoring IP's and baning IP that may be malicious. Also require 2FA.

#### 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:

Using SSL and having some parts of the page uneditable or hidden so attackers can not forger the logins. Other than that I do not know would appreciate some feedback.

 $\ensuremath{\texttt{©}}$  2023 edX Boot Camps LLC. Confidential and Proprietary. All Rights Reserved.