

## Setting Up a Web Application

/var/www/html/config/config.inc.php

```
GNU nano 2.9.3 /var/www/html/dvwa/config/config.inc.php

<?php

# If you are having problems connecting to the MySQL database and all of the variables below are correct
# try changing the 'db_server' variable from localhost to 127.0.0.1. Fixes a problem due to sockets.
# Thanks to @digininja for the fix.

# Database management system to use
$DBMS = 'MySQL';
#$DBMS = 'PGSQL'; // Currently disabled

# Database variables
# WARNING: The database specified under db_database WILL BE ENTIRELY DELETED during setup.
# Please use a database dedicated to DVWA.
#
# If you are using MariaDB then you cannot use root, you must use create a dedicated DVWA user.
# See README.md for more information on this.

#CREATE USER dvwa@localhost IDENTIFIED BY 'abc123' ;
#GRANT ALL PRIVILEGES ON dvwa.* TO dvwa@localhost ;

$_DVWA = array();
$_DVWA[ 'db_server' ] = '127.0.0.1';
$_DVWA[ 'db_database' ] = 'dvwa';
$_DVWA[ 'db_user' ] = 'dvwa';
$_DVWA[ 'db_password' ] = 'abc123';

# Only used with PostgreSQL/PGSQL database selection.
$_DVWA[ 'db_port' ] = '5432';

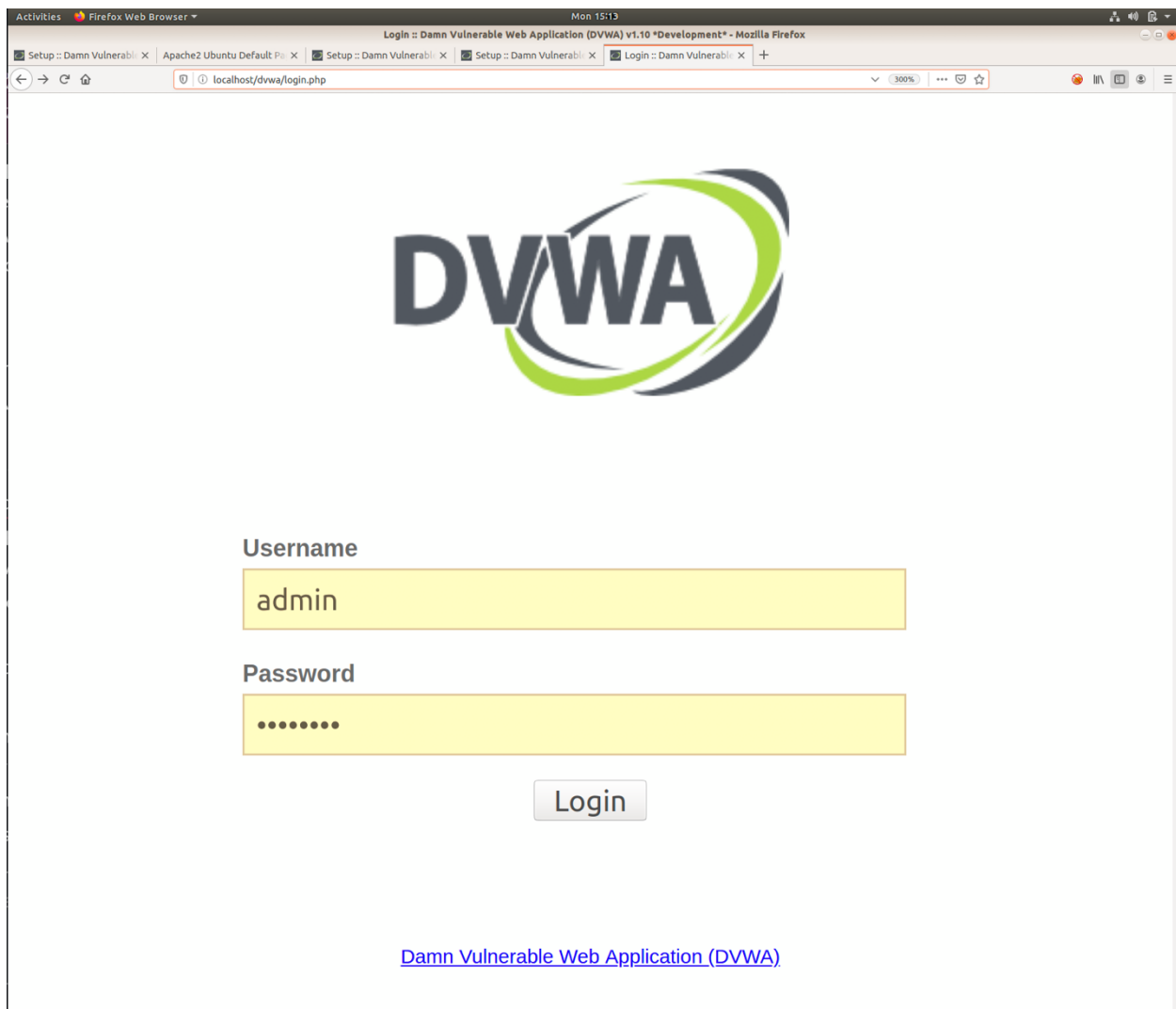
# ReCAPTCHA settings
# Used for the 'Insecure CAPTCHA' modle
# You'll need to generate your own keys at: https://www.google.com/recaptcha/admin
$_DVWA[ 'recaptcha_public_key' ] = '';
$_DVWA[ 'recaptcha_private_key' ] = '';

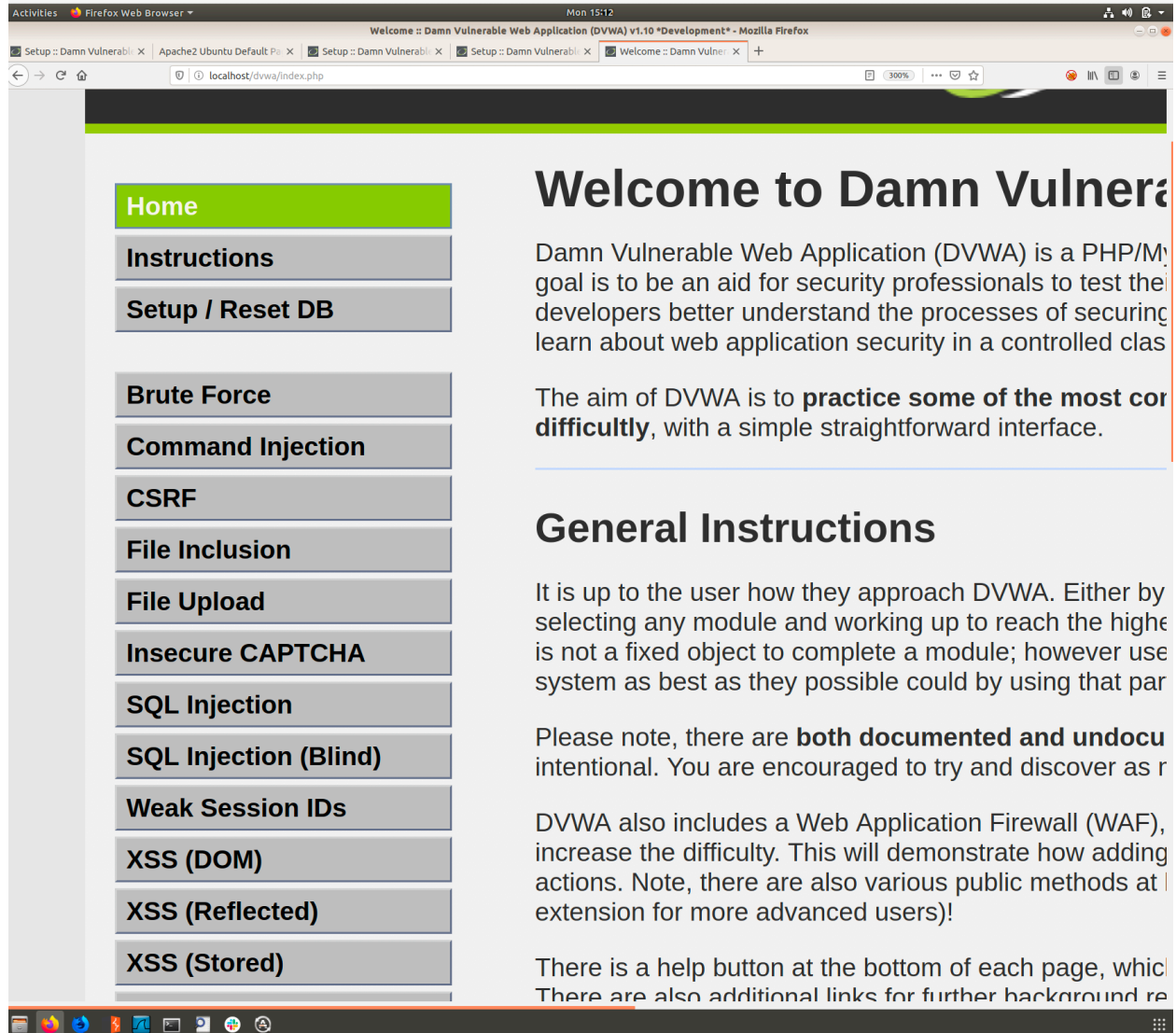
# Default security level
# Default value for the security level with each session.
# The default is 'impossible'. You may wish to set this to either 'low', 'medium', 'high' or impossible'.
$_DVWA[ 'default_security_level' ] = 'impossible';

# Default PHPIDS status

[ Read 51 lines (Converted from DOS format) ]
^G Get Help      ^O Write Out    ^W Where Is     ^K Cut Text     ^J Justify      ^C Cur Pos     M-U Undo        M-A Mark Text
^X Exit          ^R Read File    ^\ Replace      ^U Uncut Text   ^T To Spell     ^_ Go To Line   M-E Redo        M-6 Copy Text
```

Dvwa login





## Challenges:

```
student:/var/www$ cd /var/www/html
student:/var/www/html$ sudo mv DVWA-master dvwa
student:/var/www/html$ sudo mv config/config.inc.php.dist config/config.inc.php
mv: cannot stat 'config/config.inc.php.dist': No such file or directory
You have new mail in /var/mail/student
student:/var/www/html$ sudo mv config/config.inc.php.dist config/config.inc.php
mv: cannot stat 'config/config.inc.php.dist': No such file or directory
You have new mail in /var/mail/student
student:/var/www/html$ cd ..
You have new mail in /var/mail/student
student:/var/www$ sudo mv config/config.inc.php.dist config/config.inc.php
mv: cannot stat 'config/config.inc.php.dist': No such file or directory
student:/var/www$ cd ..
student:/var$ sudo mv config/config.inc.php.dist config/config.inc.php
mv: cannot stat 'config/config.inc.php.dist': No such file or directory
student:/var$ cd config/config.inc.php.dist
bash: cd: config/config.inc.php.dist: No such file or directory
student:/var$ cd /var/www
You have new mail in /var/mail/student
student:/var/www$ ls
html master.zip master.zip.1
student:/var/www$ cd /var/www/html
student:/var/www/html$ ls
classCyber dvwa index.html index.nginx-debian.html nano
student:/var/www/html$ cat dvwa
cat: dvwa: Is a directory
You have new mail in /var/mail/student
student:/var/www/html$ cd dvwa
student:/var/www/html/dvwa$ ls
about.php docs favicon.ico instructions.php php.ini setup.php
CHANGELOG.md dvwa hackable login.php README.md vulnerabilities
config DVWA-master ids_log.php logout.php robots.txt
COPYING.txt external index.php phpinfo.php security.php
student:/var/www/html/dvwa$ sudo mv config/config.inc.php.dist config/config.inc.php
student:/var/www/html/dvwa$
```

```
student:/var/www/html/dvwa$ sudo nano /var/www/html/dvwa/config/config.inc.php
student:/var/www/html/dvwa$ sudo service mysql status
[sudo] password for student:
●mysql.service - MySQL Community Server
   Loaded: loaded (/lib/systemd/system/mysql.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2019-12-19 20:51:36 EST; 2 weeks 3 days ago
     Main PID: 10047 (mysqld)
        Tasks: 29 (limit: 4682)
      CGroup: /system.slice/mysql.service
              └─10047 /usr/sbin/mysqld --daemonize --pid-file=/run/mysqld/mysqld.pid

Dec 19 20:51:36 cyber-security-ubuntu systemd[1]: Starting MySQL Community Server...
Dec 19 20:51:36 cyber-security-ubuntu systemd[1]: Started MySQL Community Server.
You have new mail in /var/mail/student
student:/var/www/html/dvwa$ mysql -u dvwa
ERROR 1045 (28000): Access denied for user 'dvwa'@'localhost' (using password: NO)
You have new mail in /var/mail/student
student:/var/www/html/dvwa$
```

Some challenges included moving and setting up the config.php file. In addition to configuring and creating the database. Although mysql was active and running the server could not connect nor could I access the localhost/login/php page. After some trouble shooting help, I was able to access localhost/dvwa and login with username: admin and password.

```
student:/var/www/html/dvwa$ sudo mysql -u root
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 20
Server version: 5.7.28-0ubuntu0.18.04.4 (Ubuntu)

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owners.

Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
mysql> ^C

^C
mysql> ;
ERROR:
No query specified

mysql> CREATE USER dvwa@localhost IDENTIFIED BY 'abc123' ;
Query OK, 0 rows affected (0.01 sec)

mysql> GRANT ALL PRIVILEGES ON dvwa.* TO dvwa@localhost ;
Query OK, 0 rows affected (0.00 sec)

mysql> █
```