

# Install Damn Vulnerable Web Application under Ubuntu 12.04

This short how-to will guide you through the installation process of DVWA on Ubuntu 12.04 LTS

## Prerequisites

Install a Virtual Machine with Ubuntu 12.04 LTS Server. Next install the additional software packages below.

Ubuntu Software Packages:

```
sudo apt-get install php5 php5-common php5-cli php5-mysql libapache2-mod-php5 mysql-server php5-mysql apache2 libapache2-mod-php5 firefox
```

```
root@stesting:~# dpkg -l | grep php5
ii  libapache2-mod-php5          5.3.10-1ubuntu3.6
server-side, HTML-embedded scripting language (Apache 2 module)
ii  php5                        5.3.10-1ubuntu3.6
server-side, HTML-embedded scripting language (metapackage)
ii  php5-cli                    5.3.10-1ubuntu3.6
command-line interpreter for the php5 scripting language
ii  php5-common                 5.3.10-1ubuntu3.6
Common files for packages built from the php5 source
ii  php5-mysql                  5.3.10-1ubuntu3.6
MySQL module for php5
root@stesting:~# dpkg -l | grep mysql
ii  libdbd-mysql-perl           4.020-1build2
Perl5 database interface to the MySQL database
ii  libmysqlclient18            5.5.29-0ubuntu0.12.04.2
MySQL database client library
ii  mysql-client-5.5             5.5.29-0ubuntu0.12.04.2
MySQL database client binaries
ii  mysql-client-core-5.5        5.5.29-0ubuntu0.12.04.2
MySQL database core client binaries
ii  mysql-common                 5.5.29-0ubuntu0.12.04.2
MySQL database common files, e.g. /etc/mysql/my.cnf
ii  mysql-server                 5.5.29-0ubuntu0.12.04.2
MySQL database server (metapackage depending on the latest version)
ii  mysql-server-5.5             5.5.29-0ubuntu0.12.04.2
MySQL database server binaries and system database setup
ii  mysql-server-core-5.5        5.5.29-0ubuntu0.12.04.2
MySQL database server binaries
ii  php5-mysql                  5.3.10-1ubuntu3.6
MySQL module for php5
root@stesting:~# dpkg -l | grep apache2
```

```

ii  apache2                                2.2.22-1ubuntu1.3
Apache HTTP Server metapackage
ii  apache2-mpm-prefork                    2.2.22-1ubuntu1.3
Apache HTTP Server - traditional non-threaded model
ii  apache2-utils                          2.2.22-1ubuntu1.3
utility programs for web servers
ii  apache2.2-bin                          2.2.22-1ubuntu1.3
Apache HTTP Server common binary files
ii  apache2.2-common                      2.2.22-1ubuntu1.3
Apache HTTP Server common files
ii  libapache2-mod-php5                    5.3.10-1ubuntu3.6
server-side, HTML-embedded scripting language (Apache 2 module)

```

Login into the newly created VM and download this script:

```
ssh -Y <username>@newly-created-vm.inf.unibz.it
```

-Y is important to allow for graphical window (firefox) to open

[dvwa-installer.sh](#)

```

#!/bin/bash echo -e "\n#####" echo -e
"# Damn Vulnerable Web App Installer Script #" echo -e
"#####" echo " Coded By: Travis
Phillips" echo " Website: http://theunl33t.blogspot.com" echo -e -n "\n[*] Changing directory to
/var/www..." cd /var/www > /dev/null echo -e "Done!\n" echo -n "[*] Removing default
index.html..." rm index.html > /dev/null echo -e "Done!\n" echo -n "[*] Changing to Temp
Directory..." cd /tmp echo -e "Done!\n" echo "[*] Downloading DVWA..." wget
http://dvwa.googlecode.com/files/DVWA-1.0.7.zip #wget
http://voxel.dl.sourceforge.net/project/dvwa/DVWA-1.0.7.zip echo -e "Done!\n" echo -n "[*]
Unzipping DVWA..." unzip DVWA-1.0.7.zip > /dev/null echo -e "Done!\n" echo -n "[*] Deleting
the zip file..." rm DVWA-1.0.7.zip > /dev/null echo -e "Done!\n" echo -n "[*] Copying dvwa to
root of Web Directory..." cp -R dvwa/* /var/www > /dev/null echo -e "Done!\n" echo -n "[*]
Clearing Temp Directory..." rm -R dvwa > /dev/null echo -e "Done!\n" echo -n "[*] Enabling
Remote include in php.ini..." cp /etc/php5/apache2/php.ini /etc/php5/apache2/php.ini1 sed -e
's/allow_url_include = Off/allow_url_include = On/' /etc/php5/apache2/php.ini1 >
/etc/php5/apache2/php.ini rm /etc/php5/apache2/php.ini1 echo -e "Done!\n" echo -n "[*]
Enabling write permissions to /var/www/hackable/upload..." chmod 777
/var/www/hackable/uploads/ echo -e "Done!\n" echo -n "[*] Starting Web Service..." service
apache2 start &> /dev/null echo -e "Done!\n" echo -n "[*] Starting MySQL..." service mysql start
&> /dev/null sleep 11 echo -e "Done!\n" echo -n "[*] Updating Config File..." cp
/var/www/config/config.inc.php /var/www/config/config.inc.php1 sed -e 's/\'"/\'mysql\'"/'
/var/www/config/config.inc.php1 > /var/www/config/config.inc.php rm
/var/www/config/config.inc.php1 echo -e "Done!\n" echo -n "[*] Updating Database..." wget --
post-data "create_db=Create / Reset Database" http://127.0.0.1/setup.php &> /dev/null mysql -
u root --password='mysql' -e 'update dvwa.users set avatar = "/hackable/users/gordonb.jpg"
where user = "gordonb";' mysql -u root --password='mysql' -e 'update dvwa.users set avatar =
"/hackable/users/smithy.jpg" where user = "smithy";' mysql -u root --password='mysql' -e
'update dvwa.users set avatar = "/hackable/users/admin.jpg" where user = "admin";' mysql -u
root --password='mysql' -e 'update dvwa.users set avatar = "/hackable/users/pablo.jpg" where

```

```
user = "pablo";' mysql -u root --password='mysql' -e 'update dvwa.users set avatar =  
"/hackable/users/1337.jpg" where user = "1337";' echo -e "Done!\n" echo -e -n "[*] Starting  
Firefox to DVWA\nUserName: admin\nPassword: password" firefox http://127.0.0.1/login.php &>  
/dev/null & echo -e "\nDone!\n" echo -e "[\033[1;32m*\033[1;37m] DVWA Install Finished!\n"
```

```
1.  
2. #/bin/bash  
3. echo -e "\n#####"  
4. echo -e "# Damn Vulnerable Web App Installer Script #"  
5. echo -e "#####"  
6. echo " Coded By: Travis Phillips"  
7. echo " Website: http://theunl33t.blogspot.com"  
8. echo -e -n "\n[*] Changing directory to /var/www..."  
9. cd /var/www > /dev/null  
10. echo -e "Done!\n"  
11.  
12. echo -n "[*] Removing default index.html..."  
13. rm index.html > /dev/null  
14. echo -e "Done!\n"  
15.  
16. echo -n "[*] Changing to Temp Directory..."  
17. cd /tmp  
18. echo -e "Done!\n"  
19.  
20. echo "[*] Downloading DVWA..."  
21. wget http://dvwa.googlecode.com/files/DVWA-1.0.7.zip  
22. #wget http://voxel.dl.sourceforge.net/project/dvwa/DVWA-1.0.7.zip  
23. echo -e "Done!\n"  
24.  
25. echo -n "[*] Unzipping DVWA..."  
26. unzip DVWA-1.0.7.zip > /dev/null  
27. echo -e "Done!\n"  
28.  
29. echo -n "[*] Deleting the zip file..."  
30. rm DVWA-1.0.7.zip > /dev/null  
31. echo -e "Done!\n"  
32.  
33. echo -n "[*] Copying dvwa to root of Web Directory..."  
34. cp -R dvwa/* /var/www > /dev/null  
35. echo -e "Done!\n"  
36.  
37. echo -n "[*] Clearing Temp Directory..."  
38. rm -R dvwa > /dev/null  
39. echo -e "Done!\n"  
40.  
41. echo -n "[*] Enabling Remote include in php.ini..."  
42. cp /etc/php5/apache2/php.ini /etc/php5/apache2/php.ini1  
43. sed -e 's/allow_url_include = Off/allow_url_include = On/'  
    /etc/php5/apache2/php.ini1 > /etc/php5/apache2/php.ini  
44. rm /etc/php5/apache2/php.ini1  
45. echo -e "Done!\n"  
46.  
47. echo -n "[*] Enabling write permissions to /var/www/hackable/upload..."  
48. chmod 777 /var/www/hackable/uploads/  
49. echo -e "Done!\n"  
50.
```

```
51. echo -n "[*] Starting Web Service..."
52. service apache2 start &> /dev/null
53. echo -e "Done!\n"
54.
55. echo -n "[*] Starting MySQL..."
56. service mysql start &> /dev/null
57. sleep 11
58. echo -e "Done!\n"
59.
60. echo -n "[*] Updating Config File..."
61. cp /var/www/config/config.inc.php /var/www/config/config.inc.php1
62. sed -e 's/'\''\''/'\''mysql'\''/' /var/www/config/config.inc.php1 >
    /var/www/config/config.inc.php
63. rm /var/www/config/config.inc.php1
64. echo -e "Done!\n"
65.
66. echo -n "[*] Updating Database..."
67. wget --post-data "create_db=Create / Reset Database"
    http://127.0.0.1/setup.php &> /dev/null
68. mysql -u root --password='mysql' -e 'update dvwa.users set avatar =
    "/hackable/users/gordonb.jpg" where user = "gordonb";'
69. mysql -u root --password='mysql' -e 'update dvwa.users set avatar =
    "/hackable/users/smithy.jpg" where user = "smithy";'
70. mysql -u root --password='mysql' -e 'update dvwa.users set avatar =
    "/hackable/users/admin.jpg" where user = "admin";'
71. mysql -u root --password='mysql' -e 'update dvwa.users set avatar =
    "/hackable/users/pablo.jpg" where user = "pablo";'
72. mysql -u root --password='mysql' -e 'update dvwa.users set avatar =
    "/hackable/users/1337.jpg" where user = "1337";'
73. echo -e "Done!\n"
74.
75. echo -e -n "[*] Starting Firefox to DVWA\nUserName: admin\nPassword:
    password"
76. firefox http://127.0.0.1/login.php &> /dev/null &
77. echo -e "\nDone!\n"
78. echo -e "[\033[1;32m*\033[1;37m] DVWA Install Finished!\n"
79.
```

Now stop the apache2 and mysql service

```
service apache2 stop
service mysql stop
```

Now you are ready to execute the dvwa-installer.sh script

```
./dvwa-installer.sh
```

This will download the DVWA Program, set it up and open firefox to create/reset the Database.

## Links

<http://www.dvwa.co.uk/DVWA>

From:

<https://wiki.inf.unibz.it/> - **Engineering-Tech Wiki**

Permanent link:

<https://wiki.inf.unibz.it/doku.php?id=public:dvwa&rev=1365080515>

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