dotDefender v4.25 Apache

Installation Guide

Applicure Web Application Firewall

Installation Process

The installation guide contains the following sections:

System Requirements

Installing dotDefender

Troubleshooting

System Requirements

When installing dotDefender, the following information is needed:
1. Path to the HTTPD binary
2. Path to the httpd.conf
3. Command for restarting Apache

dotDefender operation requires any of the following:
Web Server: Apache 2.0.X or higher, Apache 2.2.X

Platform: Linux (packages: RPM, Debian, Generic)

Perl Interpreter

GLIBC 2.3.2 or higher

If present - SQLite 3.5.6 or higher

Installing dotDefender

1.Extract the downloaded gz file.

> For example: **gunzip dotDefender-3.8-5.Linux.i386.rpm.bin.gz**

Note: Installation must be performed using root permissions.

> After installation has finished – Restart Apache server!

Make sure that "umask" equals to "022".

2.Start the installation dialog by executing the bin file.

> For example: **sh ./dotDefender-3.8-5.Linux.i386.rpm.bin**

---

3. The Welcome screen appears. Select **Next**.

```
lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqWelcomeqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                              x
x Welcome to the installer for dotDefender, from Applicure Technologies.       x
x                                                                              x
x If at any stage you require assistance, please email                         x
x support@applicure.com.                                                       x
x                                                                              x
x For more information about dotDefender, please visit the dotDefender         x
x website:                                                                     x
x www.applicure.com.                                                           x
x                                                                              x
x Thank you,                                                                   x
x The dotDefender Team                                                         x
x                                                                              x
x                                                                              x
tqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqu
x                      < Next >                <Cancel>                         x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

4. The License Agreement screen appears. Read, and select **I Agree**.

```
lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqLicense Agreementqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x APPLICURE SOFTWARE LICENSE AGREEMENT                                          x
x                                                                              x
x The license agreement absolves Applicure Technologies of any and all lia x
x resultant from the installation of its software, and prohibits reverse       x
x engineering and/or unauthorized redistribution of its software in any fo x
x                                                                              x
x NOTE: IF YOU INSTALL THE SOFTWARE YOU WILL BE DEEMED TO HAVE ACCEPTED TH x
x TERMS OF THIS LICENSE AGREEMENT.  Subject to the following terms and          x
x conditions, Applicure Technologies Corporation ("Applicure") grants to y x
x ("User") a non-exclusive license to use the Software.                         x
x                                                                              x
x 1. SCOPE OF LICENSE                                                           x
x This is a worldwide, royalty-free, non-exclusive license.  Applicure gra x
x the User the right to use the Software for its own internal business pur x
tqqqqv(+)qqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqql6%qqqqqu
x              <I Agree>              < Back  >              <Cancel >          x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```
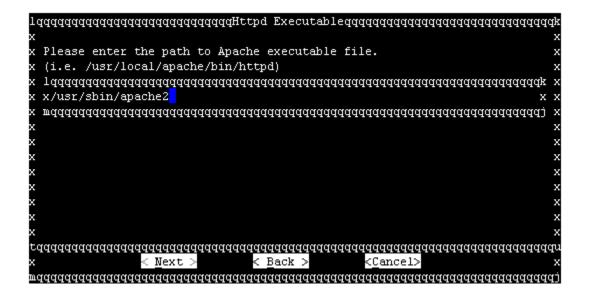
5. The Configuration Options screen appears. Click **Next**.

```
lqqqqqqqqqqqqqqqqqqqqqqqqqqqConfiguration Optionsqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                            x
x Setup can perform required configuration automatically.                    x
x lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk x
x x [*] WebSites  Add existing websites to the dotDefender configuration x x
x x [*] Apache    Add dotDefender module to the httpd.conf               x x
x x [*] Log       Add log maintanance to rc scripts                      x x
x x [*] License   Run license daemon                                     x x
x mqqqqqv(+)qqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
tqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqu
x              < Next >          < Back >          <Cancel>                   x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

6. The Httpd Executable screen appears.

Type the path to the httpd/apache2 executable and select **Next**.

```
lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqHttpd Executableqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                            x
x Please enter the path to Apache executable file.                           x
x (i.e. /usr/local/apache/bin/httpd)                                         x
x lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk x
x x/usr/sbin/apache2                                                     x x
x mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
tqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqu
x              < Next >          < Back >          <Cancel>                   x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

7.   The Httpd Conf screen appears.
The httpd.conf path is inserted automatically. Select **Next** or modify the path if Apache is configured to use a file other than the default configuration file.

```
lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqHttpd Confqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                            x
x Please enter the path to Apache config file.                              x
x (i.e. /usr/local/apache/conf/httpd.conf)                                  x
x lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk x
x x/etc/apache2/apache2.conf                                             x x
x mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
x                                                                            x
tqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqu
x              < Next >           < Back >          <Cancel>                 x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

8.   The GUI Directory screen appears.
Type a name for the dotDefender's URI (for example "dotDefender"), and **Next**.

```
lqqqqqqqqqqqqqqqqqqqqqqqqqqqqdotDefender GUI Directoryqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                             x
x Type a name of a directory (URI only) to be used to access dotDefender     x
x lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk x
x xdotDefender                                                          x x
x mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj x
x                                                                             x
x                                                                             x
x                                                                             x
x                                                                             x
x                                                                             x
x                                                                             x
x                                                                             x
x                                                                             x
tqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqu
x              < Next >           < Back >          <Cancel>                  x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```
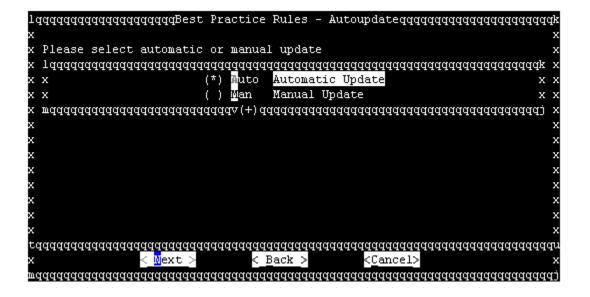
9. <u>The Admin GUI screen appears.</u>

The Administration GUI is now accessible at http://<hostname>/dotDefender (Defined previously). To access the Administration GUI, a password must be configured for the admin user. Enter a password in each of the two fields. Select **Next**.

```
lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqAdmin GUIqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                        x
x The admin GUI will be accessible at the following URL:                 x
x http://<hostname>/dotDefender                                          x
x User name is 'admin'.                                                  x
x                                                                        x
x Please define the password for accessing the admin GUI                 x
x (using the arrow keys to alternate between fields below).              x
x lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk x
x x                                                                  x x
x x Enter   password: *                                             x x
x x Confirm password: *                                             x x
x x                                                                  x x
x x                                                                  x x
x mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj x
tqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqu
x             < Next >          < Back >         <Cancel>                 x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

10. <u>The Rule-Updates screen appears.</u>

Select either **Automatic Update** or **Manual Update**, and then **Next.**

```
lqqqqqqqqqqqqqqqqqqqqBest Practice Rules - Autoupdateqqqqqqqqqqqqqqqqqqqqqqk
x                                                                        x
x Please select automatic or manual update                              x
x lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk x
x x                     (*) Auto   Automatic Update                  x x
x x                     ( ) Man    Manual Update                     x x
x mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqv(+)qqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj x
x                                                                        x
x                                                                        x
x                                                                        x
x                                                                        x
x                                                                        x
x                                                                        x
x                                                                        x
x                                                                        x
x                                                                        x
tqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqu
x             < Next >          < Back >         <Cancel>                 x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```
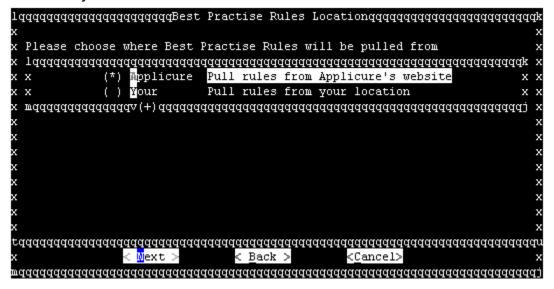
11. The Rule-Updates screen appears.

For automatic update, select the **frequency** of the updates and then **Next.**

```
lqqqqqqqqqqqqqqqqqqqqBest Practice Rules - Check Periodqqqqqqqqqqqqqqqqqqqqk
x                                                                          x
x Please select period for Best Practice Rules check                       x
x lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk x
x x                              ( ) 1    1 day                          x x
x x                              (*) 7    1 weak                         x x
x x                              ( ) 30   1 month                        x x
x x                              ( ) 90   3 months                       x x
x mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqv(+)qqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj x
x                                                                          x
x                                                                          x
x                                                                          x
x                                                                          x
x                                                                          x
x                                                                          x
tqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqu
x            < Next >           < Back >          <Cancel>                  x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

12. The Rule-Updates screen appears.

Select to download the rules from either Applicure's website or a custom location of your choice and the **Next**.

```
lqqqqqqqqqqqqqqqqqqqqqqqqBest Practise Rules Locationqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                          x
x Please choose where Best Practise Rules will be pulled from              x
x lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk x
x x           (*) Applicure   Pull rules from Applicure's website        x x
x x           ( ) Your        Pull rules from your location             x x
x mqqqqqqqqqqqqqqqqv(+)qqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj x
x                                                                          x
x                                                                          x
x                                                                          x
x                                                                          x
x                                                                          x
x                                                                          x
x                                                                          x
x                                                                          x
tqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqu
x            < Next >           < Back >          <Cancel>                  x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

13. <u>The Verify Settings screen appears. Select</u> **Next.**

```
lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqVerify Settingsqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                            x
x Please review the installation settings below:                            x
x                                                                            x
x Apache version: 2.2                                                        x
x Path to config: /etc/apache2/apache2.conf                                  x
x                                                                            x
x Add WebSites  : Yes                                                        x
x Add Module    : Yes                                                        x
x Add Log       : Yes                                                        x
x Add License   : Yes                                                        x
x                                                                            x
x AutoUpdate    : On                                                         x
x Check Period  : 7 day(s)                                                   x
x Rules URI     : Applicure's website                                        x
tqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqu
x             < Next >          < Back >          <Cancel>                    x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```


14. <u>The Confirm Installation screen appears. Select</u> **Go.**

```
lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqConfirm Installationqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                            x
x Proceed now ?                                                             x
x                                                                           x
x                                                                           x
x                                                                           x
x                                                                           x
x                                                                           x
x                                                                           x
x                                                                           x
x                                                                           x
x                                                                           x
x                                                                           x
x                                                                           x
x                                                                           x
tqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqu
x             <  Go   >          < Back >          <Cancel>                   x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

15. Installation is running...

```
lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqInstalling filesqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x ./usr/local/APPCure-full/lib/GUI/images/rules/spacer.jpg                        x
x ./usr/local/APPCure-full/lib/GUI/images/rules/tick_16.png                       x
x ./usr/local/APPCure-full/lib/GUI/images/toolbar/disabled_search_16.png          x
x ./usr/local/APPCure-full/lib/GUI/images/toolbar/disabled_shield_16.png          x
x ./usr/local/APPCure-full/lib/GUI/images/toolbar/disabled_stop_16.png            x
x ./usr/local/APPCure-full/lib/GUI/lib/jquery/                                     x
x ./usr/local/APPCure-full/lib/GUI/lib/jquery/dynatree7src7mit-license.txt x
x ./usr/local/APPCure-full/lib/GUI/lib/jquery/dynatree/src/jquery.dynatree x
x ./usr/local/APPCure-full/lib/GUI/lib/jquery/dynatree/src/skin/                   x
x ./usr/local/APPCure-full/lib/GUI/lib/jquery/dynatree/src/skin/cb-ck.gif          x
x ./usr/local/APPCure-full/lib/GUI/lib/jquery/dynatree/src/skin/cb-nock.gi x
x ./usr/local/APPCure-full/lib/GUI/lib/jquery/dynatree/src/skin/cbIntermed x
x ./usr/local/APPCure-full/lib/GUI/lib/jquery/dynatree/src/skin/cbIntermed x
x ./usr/local/APPCure-full/lib/GUI/lib/jquery/dynatree/src/skin/cbUnchecke x
x ./usr/local/APPCure-full/lib/GUI/lib/jquery/dynatree/src/skin/cbUnchecke x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

16. Installation has finished. Restart Apache server.

```
lqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqSetup Completeqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqk
x                                                                              x
x                                                                              x
x To launch dotDefender admin GUI:                                            x
x [GUI URL: http://<hostname>/dotDefender]                                    x
x [user name: 'admin']                                                        x
x [password: <defined previously>]                                           x
x                                                                              x
x dotDefender has been successfully installed.                               x
x                                                                              x
x Please restart your Web server at this time.                               x
x                                                                              x
x                                                                              x
x                                                                              x
x                                                                              x
x                                                                              x
mqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqqj
```

Note: After installation, an Apache restart is required.
After restarting Apache, the dotDefender will be accessible through the pre-defined URI and Password. ***The user name is 'admin', which cannot be changed.***

1. Troubleshooting

If you experience any issues loading the dotDefender interface, please review the following points to isolate your problem.

Cannot run the installer – no execute permissions:
If you are executing the command "# sh dotDefenderr-3.8-5.Linux.i386.deb.bin" (for example), in order to run the installer, and a "No Execute Permissions" error appears, it most likely relates to the "/tmp" directory or its mount:
1. Create a directory with permissions – simply execute mkdir /[some_dir_name] ("mkdir /dD_ttt")
22 Use the following command (for example) to run the installer under the newly created directory: "TMPDIR=/dD_ttt sh dotDefenderr-3.8-5.Linux.i386.deb.bin"

libXML issue:
a) Get the process ID of one apache child (run "ps aux | grep httpd")
b) Run # "cat /proc//maps | grep libxml" to get the path to libxml
c) Run the utility from "/usr/local/APPCure/bin/change_soname", which receives two arguments:
- The path from the second step, and
- An output location, for example: change_soname /usr/lib/libxml2 /tmp
d) Copy the output file called libXML2.so.2 and replace the one at /usr/local/APPCure/contrib
e) Restart Apache

suEXEC integration (From the Applicure knowledgebase):
**http://applicuresupport.helpserve.com/index.php?
_m=knowledgebase&_a=viewarticle&kbarticleid=29&nav=0,13**

cPanel integration (From the Applicure knowledgebase):
http://applicuresupport.helpserve.com/index.php?
_m=knowledgebase&_a=viewarticle&kbarticleid=30&nav=0,13

Please help us help you!

Link to our knowledgebase: **http://applicuresupport.helpserve.com/index.php?
_m=knowledgebase&_a=view&parentcategoryid=13&pcid=0&nav=0**

support@applicure.com