

## td2

### 3

```
~> openssl genpkey -algorithm RSA -out private.key -aes256
~> openssl req -new -key private.key -out demande.csr
~> openssl x509 -req -days 365 -in demande.csr -signkey private.key -out
certif.crt
```

### 4

```
~> sudo nvim /etc/apache2/sites-available/default-ssl.conf
```

dans le fichier `/etc/apache2/sites-available/default-ssl.conf` :

```
SSLCertificateFile      /home/kali/certif.crt
SSLCertificateKeyFile   /home/kali/private.key``
```

### 5

```
~> sudo a2enmod ssl
```

### 6

```
~> sudo nvim /etc/apache2/sites-available/000-default.conf
```

dans `/etc/apache2/sites-available/000-default.conf` ajouter:

```
Redirect permanent / https://localhost/
```

### 7

```
~> sudo service apache2 restart #ou reload
```

### 8

```
~> sudo apache2ctl -M
```

## 9

### test de la configuration

```
~> sudo apache2ctl configtest
AH00558: apache2: Could not reliably determine the server's fully qualified
domain name, using 127.0.1.1. Set the 'ServerName' directive globally to suppress
this message
Syntax OK
```

### informations sur les hotes virtuels

```
~> sudo apache2ctl -S
```

```
AH00558: apache2: Could not reliably determine the server's fully qualified
domain name, using 127.0.1.1. Set the 'ServerName' directive globally to suppress
this message
VirtualHost configuration:
*:80                  getSpooled.fun (/etc/apache2/sites-enabled/000-
default.conf:1)
ServerRoot: "/etc/apache2"
Main DocumentRoot: "/var/www/html"
Main ErrorLog: "/var/log/apache2/error.log"
Mutex watchdog-callback: using_defaults
Mutex ssl-stapling-refresh: using_defaults
Mutex ssl-stapling: using_defaults
Mutex ssl-cache: using_defaults
Mutex default: dir="/var/run/apache2/" mechanism=default
Mutex mpm-accept: using_defaults
PidFile: "/var/run/apache2/apache2.pid"
Define: DUMP_VHOSTS
Define: DUMP_RUN_CFG
User: name="www-data" id=33
Group: name="www-data" id=33
```

## 10

```
~> sudo nvim /etc/apache2/ports.conf
```

Dans `/etc/apache2/ports.conf` :

Listen 8080

Listen 8443

# b

# 1

```
~> sudo nvim /var/www/html/index.html
```

```
<!DOCTYPE html PUBLIC "-//W3C//DTD XHTML 1.0 Transitional//EN"
"http://www.w3.org/TR/xhtml1/DTD/xhtml1-transitional.dtd">
<html xmlns="http://www.w3.org/1999/xhtml">
  <head>
    <meta http-equiv="Content-Type" content="text/html; charset=UTF-8" />
    <title>Apache2 Debian Default Page: It works</title>
    <style type="text/css" media="screen">
      * {
        margin: 0px 0px 0px 0px;
        padding: 0px 0px 0px 0px;
      }

      body, html {
        padding: 3px 3px 3px 3px;

        background-color: #D8DBE2;

        font-family: Verdana, sans-serif;
        font-size: 11pt;
        text-align: center;
      }

      div.main_page {
        position: relative;
        display: table;

        width: 800px;

        margin-bottom: 3px;
        margin-left: auto;
        margin-right: auto;
        padding: 0px 0px 0px 0px;

        border-width: 2px;
        border-color: #212738;
        border-style: solid;
```

```
background-color: #FFFFFF;

text-align: center;
}

div.page_header {
  height: 99px;
  width: 100%;

  background-color: #F5F6F7;
}

div.page_header span {
  margin: 15px 0px 0px 50px;

  font-size: 180%;
  font-weight: bold;
}

div.page_header img {
  margin: 3px 0px 0px 40px;

  border: 0px 0px 0px;
}

div.table_of_contents {
  clear: left;

  min-width: 200px;

  margin: 3px 3px 3px 3px;

  background-color: #FFFFFF;

  text-align: left;
}

div.table_of_contents_item {
  clear: left;

  width: 100%;

  margin: 4px 0px 0px 0px;

  background-color: #FFFFFF;

  color: #000000;
  text-align: left;
```

```
}

div.table_of_contents_item a {
    margin: 6px 0px 0px 6px;
}

div.content_section {
    margin: 3px 3px 3px 3px;

    background-color: #FFFFFF;

    text-align: left;
}

div.content_section_text {
    padding: 4px 8px 4px 8px;

    color: #000000;
    font-size: 100%;
}

div.content_section_text pre {
    margin: 8px 0px 8px 0px;
    padding: 8px 8px 8px 8px;

    border-width: 1px;
    border-style: dotted;
    border-color: #000000;

    background-color: #F5F6F7;

    font-style: italic;
}

div.content_section_text p {
    margin-bottom: 6px;
}

div.content_section_text ul, div.content_section_text li {
    padding: 4px 8px 4px 16px;
}

div.section_header {
    padding: 3px 6px 3px 6px;

    background-color: #8E9CB2;

    color: #FFFFFF;
    font-weight: bold;
}
```

```
font-size: 112%;
text-align: center;
}

div.section_header_red {
    background-color: #CD214F;
}

div.section_header_grey {
    background-color: #9F9386;
}

.floating_element {
    position: relative;
    float: left;
}

div.table_of_contents_item a,
div.content_section_text a {
    text-decoration: none;
    font-weight: bold;
}

div.table_of_contents_item a:link,
div.table_of_contents_item a:visited,
div.table_of_contents_item a:active {
    color: #000000;
}

div.table_of_contents_item a:hover {
    background-color: #000000;

    color: #FFFFFF;
}

div.content_section_text a:link,
div.content_section_text a:visited,
div.content_section_text a:active {
    background-color: #DCDFE6;

    color: #000000;
}

div.content_section_text a:hover {
    background-color: #000000;

    color: #DCDFE6;
}
```

```

div.validator {
}
</style>
</head>
<body>
  <div class="main_page">
    <div class="page_header floating_element">
      
      <span class="floating_element">
        Apache2 Debian Default Page
      </span>
    </div>
    <!--      <div class="table_of_contents floating_element">
      <div class="section_header section_header_grey">
        TABLE OF CONTENTS
      </div>
      <div class="table_of_contents_item floating_element">
        <a href="#about">About</a>
      </div>
      <div class="table_of_contents_item floating_element">
        <a href="#changes">Changes</a>
      </div>
      <div class="table_of_contents_item floating_element">
        <a href="#scope">Scope</a>
      </div>
      <div class="table_of_contents_item floating_element">
        <a href="#files">Config files</a>
      </div>
    </div>
    -->
    <div class="content_section floating_element">

      <div class="section_header section_header_red">
        <div id="about"></div>
        It works!
      </div>
      <div class="content_section_text">
        <p>
          This is the default welcome page used to test the correct
          operation of the Apache2 server after installation on Debian
          systems.

          If you can read this page, it means that the Apache HTTP server
          installed at
          this site is working properly. You should <b>replace this
          file</b> (located at
          <tt>/var/www/html/index.html</tt>) before continuing to operate
          your HTTP server.

```

```

    </p>

    <p>
        If you are a normal user of this web site and don't know what
this page is
        about, this probably means that the site is currently unavailable
due to
        maintenance.
        If the problem persists, please contact the site's administrator.
    </p>

</div>
<div class="section_header">
    <div id="changes"></div>
        Configuration Overview
</div>
<div class="content_section_text">
    <p>
        Debian's Apache2 default configuration is different from the
        upstream default configuration, and split into several files
optimized for
        interaction with Debian tools. The configuration system is
        <b>fully documented in
        /usr/share/doc/apache2/README.Debian.gz</b>. Refer to this for
the full
        documentation. Documentation for the web server itself can be
        found by accessing the <a href="/manual">manual</a> if the
<tt>apache2-doc</tt>
        package was installed on this server.

    </p>
    <p>
        The configuration layout for an Apache2 web server installation
on Debian systems is as follows:
    </p>
    <pre>
/etc/apache2/
|-- apache2.conf
|   `-- ports.conf
|-- mods-enabled
|   |-- *.load
|   `-- *.conf
|-- conf-enabled
|   `-- *.conf
|-- sites-enabled
|   `-- *.conf
    </pre>
    <ul>

```



remaining configuration

- `<tt>apache2.conf</tt>` is the main configuration file. It puts the pieces together by including all files when starting up the web server.

listening ports for  
anytime.

- `<tt>ports.conf</tt>` is always included from the main configuration file. It is used to determine the incoming connections, and this file can be customized anytime.

directories contain  
modules, global configuration  
respectively.

- Configuration files in the `<tt>mods-enabled/</tt>`, `<tt>conf-enabled/</tt>` and `<tt>sites-enabled/</tt>` particular configuration snippets which manage fragments, or virtual host configurations, respectively.

- They are activated by symlinking available configuration files from their respective \*-available/ counterparts. These should be managed by using our helpers
  - `<tt>a2enmod,</tt>`  
`<tt>a2dismod,</tt>`
  - `<tt>a2ensite,</tt>`  
`<tt>a2dissite,</tt>`
  - and
  - `<tt>a2enconf,</tt>`  
`<tt>a2disconf</tt>`.See their respective man pages for detailed information.

- The binary is called `apache2`. Due to the use of environment variables, in the default configuration,

apache2 needs to be

started/stopped with `<tt>/etc/init.d/apache2</tt>` or

`<tt>apache2ctl</tt>`.

**Calling `<tt>/usr/bin/apache2</tt>` directly will not**

work **with the**

default configuration.

`</li>`

`</ul>`

`</div>`

`<div class="section_header">`

`<div id="docroot"></div>`

Document Roots

`</div>`

`<div class="content_section_text">`

`<p>`

By default, Debian does not allow access through the web browser

to

**any** file apart of those located in `<tt>/var/www</tt>`,

`<a href="http://httpd.apache.org/docs/2.4/mod/mod_userdir.html" rel="nofollow">public_html</a>`

directories (when enabled) and `<tt>/usr/share</tt>` (for web applications). If your site is using a web document root located elsewhere (such as in `<tt>/srv</tt>`) you may need to

whitelist your

document root directory in `<tt>/etc/apache2/apache2.conf</tt>`.

`</p>`

`<p>`

The default Debian document root is `<tt>/var/www/html</tt>`. You can make your own virtual hosts under `/var/www`. This is different to previous releases which provides better security out of the

box.

`</p>`

`</div>`

`<div class="section_header">`

`<div id="bugs"></div>`

Reporting Problems

`</div>`

`<div class="content_section_text">`

`<p>`

Please use the `<tt>reportbug</tt>` tool to report bugs in the Apache2 package with Debian. However, check `<a`

`href="http://bugs.debian.org/cgi-bin/pkgreport.cgi?ordering=normal;archive=0;src=apache2;repeatmerged=0"`

`rel="nofollow">existing bug reports</a>` before reporting a new bug.

`</p>`

```
<p>
    Please report bugs specific to modules (such as PHP and others)
    to respective packages, not to the web server itself.
</p>
</div>

</div>
<div class="validator">
</div>
</body>
</html>
```

Maxime Soulié