

```
GET / HTTP/1.1
Host: leo.com
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101
Firefox/91.0
Accept: text/html,application/xhtml+xml,application/xml;q=0.9,image/
webp,*/*;q=0.8
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate
DNT: 1
Connection: keep-alive
Upgrade-Insecure-Requests: 1
Authorization: Basic cXVlbnRpbjpxdWVudGluMTIz
```

```
HTTP/1.1 200 OK
Date: Wed, 12 Apr 2023 16:23:32 GMT
Server: Apache/2.4.56 (Debian)
Last-Modified: Tue, 12 Apr 2022 08:58:05 GMT
ETag: "29cd-5dc714252b140-gzip"
Accept-Ranges: bytes
Vary: Accept-Encoding
Content-Encoding: gzip
Content-Length: 3041
Keep-Alive: timeout=5, max=100
Connection: Keep-Alive
Content-Type: text/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">

```

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 **fully documented in** `/usr/share/doc/apache2/README.Debian.gz`. Refer to this for the full documentation. Documentation for the web server itself can be found by accessing the [manual](/manual) if the `apache2-doc` package was installed on this server.

The configuration layout for an Apache2 web server installation on Debian systems is as follows:

```
/etc/apache2/
|-- apache2.conf
|   |-- ports.conf
|-- mods-enabled
|   |-- *.load
|   |-- *.conf
|-- conf-enabled
|   |-- *.conf
|-- sites-enabled
|   |-- *.conf
--
```

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

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

- Configuration files in the `mods-enabled/`, `conf-enabled/` and `sites-enabled/` directories contain

particular configuration snippets which manage modules, global configuration fragments, or virtual host configurations, respectively.

</li>

<li>  
They are activated by symlinking available configuration files from their respective \*-available/ counterparts. These should be managed

by using our helpers

<tt>

a2enmod,  
a2dismod,

</tt>

<tt>

a2ensite,  
a2dissite,

</tt>

and

<tt>

a2enconf,  
a2disconf

</tt>. See their respective man pages for

detailed information.

</li>

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

```

```

GET /icons/openlogo-75.png HTTP/1.1
Host: leo.com
User-Agent: Mozilla/5.0 (X11; Linux x86_64; rv:91.0) Gecko/20100101
Firefox/91.0
Accept: image/webp, */*
Accept-Language: en-US,en;q=0.5
Accept-Encoding: gzip, deflate

```



DNT: 1  
Authorization: Basic cXVlbnRpbjpxdWVudGluMTIz  
Connection: keep-alive  
Referer: http://leo.com/

HTTP/1.1 200 OK  
Date: Wed, 12 Apr 2023 16:23:33 GMT  
Server: Apache/2.4.56 (Debian)  
Last-Modified: Wed, 08 Mar 2023 02:44:05 GMT  
ETag: "167a-5f65a8062c740"  
Accept-Ranges: bytes  
Content-Length: 5754  
Keep-Alive: timeout=5, max=99  
Connection: Keep-Alive  
Content-Type: image/png

.PNG  
.  
...  
IHDR...K...c.....  
pHYs.....tIME.....^.....IDATx...]y.T...?.....  
.8  
. {p.M.AA@.`D.Q3f.8IL..#.....T...  
D.....{/..`#.{...{...j^..@.....s...u..@/.  
3..d^...a!...)..<<.H."...w=...<....bk...@..T..O.....U[8}.J.'..y..  
.....</"\_E..8.....<.....`./..Y.4G.&GM..#...P.D."..]R1...  
(.rm`. - .}zw.w.....~.D...W.b.9[  
...g...y\.....[.....0.....1.....0...|. )...y..o.X...  
(Um.\_.L...}..C.V.H.....4.....a..k@.\_W.>.....3\*TS.....  
.....F...j2..... J, ..A)  
8....P.xP4...o/.....T.....  
VM..#T".<...u../1.1.....%{.7..~.NK.y.+T4u.J.w.RC.0.....j..  
7...>.\*(i..G...\.Q..  
,...oh....g.v5Y.o. ...9(..\*..<z ....FE.....B.@!6..... .  
6U.q.....m.M.....6.>..d;TG.....\*...`;d.Y..|.+. =...#.S..e..  
..\_...{.!e..\$.fU..\..sRN.....). ....+..V....,"...Xn0..  
H.....kVM...\*.|. ....@..9.u..z,..  
0=...r .9v.....U.....>...L... ..ev[P..= .....rvGG..9..  
(eN.9t..1.6....G..q....8?.."...  
[A.gwF.....n.....] ,.....X..A1.j.....j.>...  
.....9..gh...<....  
...u.4.(X5.).U.|...B.6.....H.....{..x...../^....}n...Y...  
8(.....=..U.X.J.\_.hS.,zo+R.....}  
..-:.d.o.M.W..Q.|..zM5G.^.=gguh...Vbz.J.....LP .....\$R.#A...|  
Vm....9..#.h..0.2.....}.X..|...{..5.9.....a..(.S.tb.. 'k"....  
1....?lg.(.7...|e.vd@.fQk1,.....v.M.....9[..  
|.....M9..^?x..b.s.....M..t..j..~...9.%'z....n(.....,Q.^  
..?....zeYs.B..0.....'O.....Z(.....`W.d...'..  
..\$. - ..%.m.\_]0...V.(..@mb... ;.}.W..  
N.J..7..5.....~.i...\*a>C)...N...{BE...z2).....0....C...0.y+  
.....=Y. ....a=[.....!.....Dq....k.i..  
(.r.....S.....n;x...N...~.;.....2.....1.'/...LC..@...  
6.z..N.C.....)w.d9%...\_..zL..\..pD8l....0v.[.....!  
I.....&.....@.hbe..!..W.....(..."@M....A.....P....3D,q..\*)U.?  
`u..U4.\j.!0,x...d.yg...\_O..  
3..A/.h...v3.....<..F...=Y<.....Ld;.Dg....?.a.7?.s.NC.Q.

d...\_...V.5...<.{.,.L%\=...,g' .(u\^i..YGF.^sH...s:l...'.}m.|  
Y....I)Y....1....lP..y+.R-....q....1W.U..q.....#.....  
49.....x...N...dz~.f..3P.;..#..Hm.....a.....C./x?w.m.  
...L..g.....Hg.o.G.".....|..mxd'  
.: .....3EM.. ...?^\_.....e..=....@((...n...+....y.....,ls.  
9G..Y..#.....j...D..l.{.y...P.....3+..y.~....  
4.~R>....0...cY.o...t.....u.T,.W`.....y.#....H..R.....x..  
../....D.OJ....I..z.....T.]pT....G)...r2....S.t3...Cf.)..@.4P..p.  
[...| .. /u.%Z..]...-y:.g.Q...>:\_...J~...hJY/..&../  
k4^.....I5D\_"...t.p...d..~.....o...A..\*p...p.V.....F.g...l.....M.R..  
.L-...r.6z..+..Y... \_P....)i.....c&...dh.\*.z.k...m.j...U4..d;  
3.....m..^C.M..V%.g.Q.. r..c.I...0.....(: .P.'....d.....  
5R^.....ed;w...}.....\*v<...  
S..4..... ..f...@P  
..@.0....4..v.|  
...+.=..z...+8e,.3@...B...G..lx1.'0.....k"...T...i"...K....b;..U..  
(....5.....D..{.y...1W..0.....@.W...i...!Xu.T..z.J.GQ... ..\*..  
7q..... ..o2.o\$.sl...0P^.....R..h... ..Q....V.|  
G)o.....sK.Lk.x.m.`. Y.....D.....M..z....  
5..P.....t..%...  
+.U6/.....FIk.w...w..s.....UQ...^..e....B.1H..K.\....^..r..  
[.nECN.D.....8;..Z?`~!.`..\_/\_...@.j5Y..NklF.....`}-...0...>..&.W..  
4.7.S.P.fe...'...LGG...^e^.....?.{...X...(u..h Y...~\_m.....`.. m...Q..  
33.N.....y.V.z.....(.%..(.....@.T|.J.jH.....,.....4 \*@..  
6.W[...V./.....T.<.l.EJ]...p..}.....V...;\_'.)!....,\*P.B)..  
9....UsR.`.I."...R.L....>...0]  
[.<..C6...z.z.z.z.z.z.z.z.E.PH....HD...n.S..twM.....tQQQ....H)..  
.Fr...d...0.=z.VUU.6M....rD<YJ.,.....".`F.=.15.....3.....k..  
7lmm.n..|"...D...  
2ihh..x|.m.#.....}.K....f...S.n{v.f.X..`.....@D.D..Q.....d...  
..!"... ..y|.T\_e(..1H/1!\_:.f.W.t]o...G.X.....@.....E.e..X.;.  
5...4..C@x....g  
mXd}#.....;  
...0r..'.....e.....N2...L..W.U\_\_\_\_.;.I"..Y...  
%.P,...:Cw..].}.Q.FI...;SJ...<#.\..x~.....D..0(G.,5..zM.^.  
4m..i.....Y.....STTD..>..X)..8.....s~;u.....g...EEE.>.....  
0..4.^..R.....Z.....x<8j..  
(..D.k.....R..B..i...@.....<x03.c.c,.s....@.3....uM..K\_...0J..  
4..  
....4mL..."6.....u.....1e.F..p8|.....8D\.q.F...\$!.{].....o..|c....  
1..9L...\.....:&..1.5M.....GB..8.wr....+...1).9...mFP!.j).0..?  
g.mt.v...a..`..N)...19...x<#.x9.....z.....!^.....^..  
1.8f.....p..4.ZD\$.?9..]s.....;.....!.....|.PYY.,.....U  
..iAc~.....}....,9..  
...m(si...7..z..9.....08.o....|>.h...YZ9'...~..I.....Ve.....0..F).  
.0".@ ..xB...^...L.....x.f.x..K..A.0....?.I)....`08.ujj..1.l.o...  
8..f..  
.B...j.K.Y...i.....~.....=...q.7..1(3>..V .W.C{G.u..1c....  
\`...G...v.....}.....%R..cl.....X2.....5kbYL;  
%.....d.....la.R..IS...1;k..d2..U).p..q?.q.~...R.E@..  
+...o....T.F..  
...r.....N)...  
6"6d^[V{...R...X.#...TG.....C..)r..'aj..W9Nv.k.R"r.r.....!^t....  
7.p.....eh/--.....!.....NJ`.v.u.UY..0}.3;::v%Q...dPu+M]]].;  
%H\$./...{qJ.R.wIM..5Ms..&|.j.f...cCo..f.mw...K....x....,[#..t.[[[  
....L!.....hI&w..mmm9.I..  
....Ju.j..@.....t].....

G...R2.J)w.C !.M...>...8.c....  
.....|.4...1.....'-70'.{k.t.J.....7R..n'QPP ZZZ..8....B.  
4M{...a.U..j..J).....[SS...\*.L^...1...i...4heUUU+...n.....X^..  
\..u...ks.'.....|o.6R.....-...  
%....~/..q.^2.....2...D..R..n...&N.h,]..W...x<.c.XmUU...D.vkd.....  
X...t.32{@\*.b..A.....7...!..w.Y.]5..R.]/?b.9;v.@.....b..  
1..`..o.....u..J.W..aE.C.. 9.x...~..R....wr.;...H\$~x  
U.q...[.....s.v  
2..!.....n.].."....i.r...].%x.....Yc..@.K.}i.^r.W..0....;YA"....  
1.p.g\z#q.....R[#.(.Z{.1...I[M...8N.....(.....].r.E.3|.   
1.ri...`.4.....C....z..  
.P.B.....Op.....rf.....'.I;.....B.Nw.....W...B.co..  
8..t.b.....].].n.....L&.`.....].....2.p."...B....].  
(..w.....v.E...i.....1K.....  
0..R...S...m...t...C..t].>S.#b4..T..?.....  
\~hc...>xb.mc...\*.eiV.....~..u.....@...l...B.....'....t.(...  
7.....u..9.....c.}.....9..\2}..\_.....N@d...C..  
(!.m.....VuEE.=^..)Y...1..KAV...t.o  
....R..1.1.E..9.....#.hhh...[.!=!.g.D.].4..x\).V...0...1.&..u].  
!v..Z.....?  
.q.T."n.B\$u]...a..].[.9.'.....-a...  
%..8..0.>...R.T.eY\_.yS.....[j../...:~)e.....'.....R.Pn.fH.....?.  
4.....\*.....P.....J.....ypI.....IEND.B`.GET /favicon.ico HTTP/1.1

Host: leo.com

User-Agent: Mozilla/5.0 (X11; Linux x86\_64; rv:91.0) Gecko/20100101  
Firefox/91.0

Accept: image/webp, \*/\*

Accept-Language: en-US,en;q=0.5

Accept-Encoding: gzip, deflate

DNT: 1

Authorization: Basic cXVlbnRpbjpxdWVudGluMTIz

Connection: keep-alive

Referer: http://leo.com/

HTTP/1.1 404 Not Found

Date: Wed, 12 Apr 2023 16:23:33 GMT

Server: Apache/2.4.56 (Debian)

Content-Length: 269

Keep-Alive: timeout=5, max=98

Connection: Keep-Alive

Content-Type: text/html; charset=iso-8859-1

<!DOCTYPE HTML PUBLIC "-//IETF//DTD HTML 2.0//EN">

<html><head>

<title>404 Not Found</title>

</head><body>

<h1>Not Found</h1>

<p>The requested URL was not found on this server.</p>

<hr>

<address>Apache/2.4.56 (Debian) Server at leo.com Port 80</address>

</body></html>