

Linux / BSD: Check if Apache web server is listening on port 80 and 443

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If you're configuring a new Webserver or adding a new VirtualHost to an existing Apache configuration you will need to **restart Apache with or without graceful option** once Apache is restarted to assure Apache is continuously running on server (depending on Linux distribution) issue:

1. On Debian Linux / Ubuntu servers

```
# ps axuwf|grep -i apache|grep -v grep
```

```
root 23280 0.0 0.2 388744 16812 ? Ss May29 0:13 /usr/sbin/apache2 -k start
www-data 10815 0.0 0.0 559560 3616 ? S May30 2:25 _/usr/sbin/apache2 -k start
www-data 10829 0.0 0.0 561340 3600 ? S May30 2:31 _/usr/sbin/apache2 -k start
www-data 10906 0.0 0.0 554256 3580 ? S May30 0:20 _/usr/sbin/apache2 -k start
www-data 10913 0.0 0.0 562488 3612 ? S May30 2:32 _/usr/sbin/apache2 -k start
www-data 10915 0.0 0.0 555524 3588 ? S May30 0:19 _/usr/sbin/apache2 -k start
www-data 10935 0.0 0.0 553760 3588 ? S May30 0:29 _/usr/sbin/apache2 -k start
...
```

2. On CentOS, Fedora, RHEL and SuSE Linux and FreeBSD

`ps ax | grep httpd | grep -v grep`

```
7661 ? Ss 0:00 /usr/sbin/httpd
7664 ? S 0:00 /usr/sbin/httpd
7665 ? S 0:00 /usr/sbin/httpd
7666 ? S 0:00 /usr/sbin/httpd
7667 ? S 0:00 /usr/sbin/httpd
7668 ? S 0:00 /usr/sbin/httpd
7669 ? S 0:00 /usr/sbin/httpd
7670 ? S 0:00 /usr/sbin/httpd
7671 ? S 0:00 /usr/sbin/httpd
```

Whether **a new Apache IP Based VirtualHosts are added** to already existing Apache and you have added new

Listen 1.1.1.1:80

Listen 1.1.1.1:443

directives, after Apache is restarted to **check whether Apache is listening on port :80 and :443**

`netstat -ln | grep -E ':80|443'`

```
tcp      0      0 0.0.0.0:80          0.0.0.0:*          LISTEN
tcp      0      0 0.0.0.0:443         0.0.0.0:*          LISTEN
```

Meaning of **0.0.0.0** is that *Apache is configured to Listen on Any Virtualhost IPs and interfaces*. This output is usually returned whether in Apache config **httpd.conf / apache2.conf** webserver is configured with directive.

Listen *:80

If in **netstat** output there is some IP popping up for example "**192.168.1.1:http**", this means that only connections to the "192.168.1.1" IP address will be accepted by Apache.

Another way to look for Apache in netstat (in case Apache is configured to listen on some non-standard port number) is with:

```
netstat -l |grep -E 'http|www'
```

```
tcp      0      0 *:www          *.*      LISTEN
```

As sometimes it might be possible that Apache is listening but its processes are in *defunct (Zombie state)* it is always a good idea, also to check if pages server by Apache are opening in browser (check it with **elinks**, **lynx** or **curl**)

To get more thorough information on Apache listened ports, protocol, user with which Apache is running nomatter of Linux distribution use **lsof** command:

```
/usr/bin/lsof -i|grep -E 'httpd|http|www'
```

```
httpd  6982 nobody  3u  IPv4  29388359  0t0  TCP pc-freak.net:https (LISTEN)
httpd  18071 nobody  3u  IPv4  702790659  0t0  TCP pc-freak.net:http (LISTEN)
httpd  18071 nobody  4u  IPv4  702790661  0t0  TCP pc-freak.net.net:https (LISTEN)
...
```

If Apache is not showing up even though restarted check what is going wrong in the error logs:

- on Debian standard error log is **/var/log/apache2/error.log**
- On RHEL, CentOS, SuSE std. error log is in **/var/log/httpd/error.log**
- on FreeBSD **/var/log/httpd-error.log**