



# How to Monitor Apache Performance Using mod\_status in Ubuntu

James Kiarie | September 28, 2020 | Apache, Ubuntu | 6 Comments

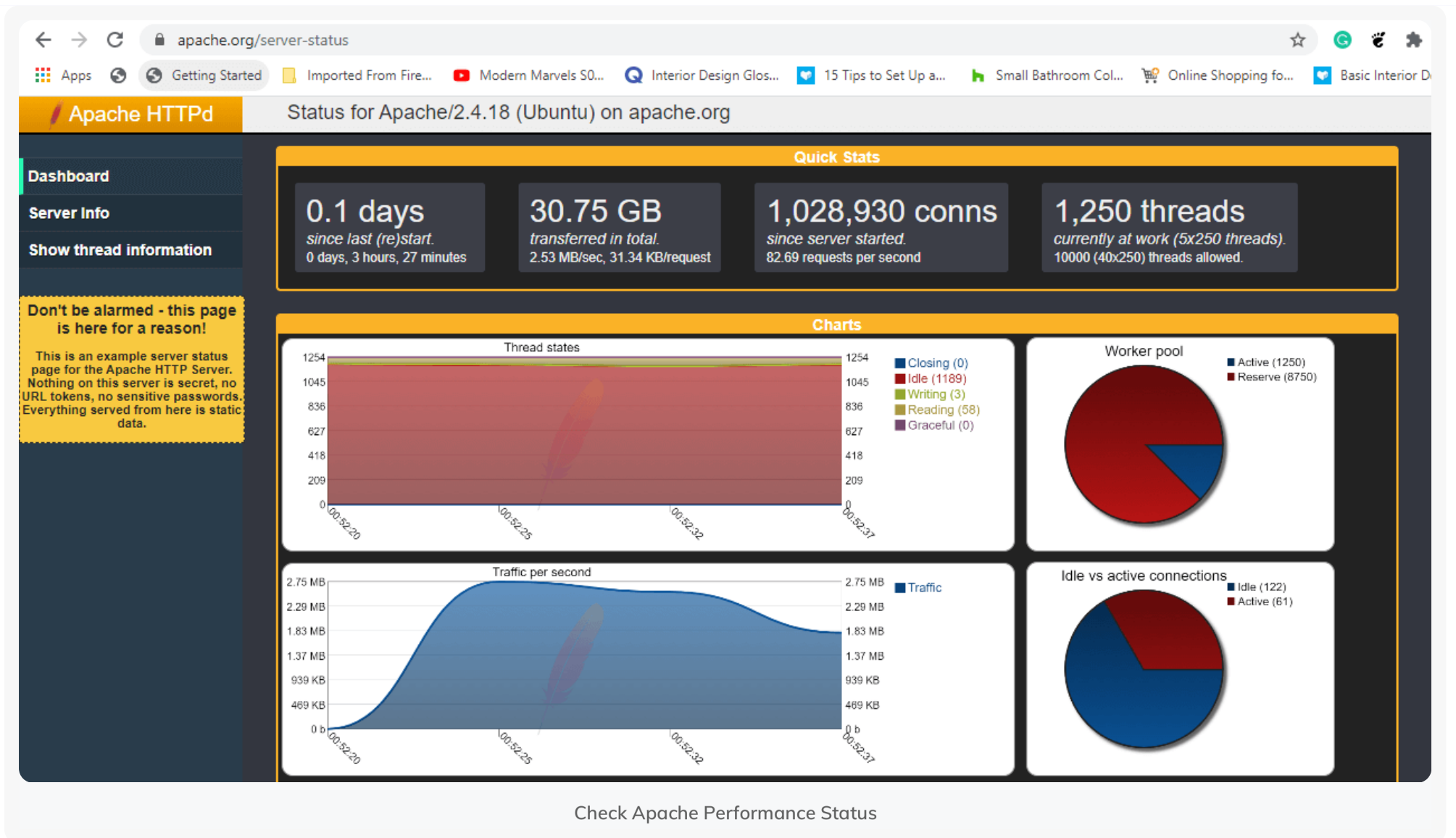
While you can always have a peek at Apache log files to get information about your webserver such as active connections, you can get a very detailed overview of your web server's performance by enabling the **mod\_status** module.

## What is the mod\_status module?

The **mod\_status** module is an Apache module that allows users to access highly detailed information about Apache's performance on a plain HTML page. In fact, Apache maintains its own server status page for general public viewing.

You can view status for Apache (Ubuntu) by heading over to the address below:

- <https://apache.org/server-status>



The Apache **mod\_status** makes it possible to serve a plain HTML page containing information such as:

- Server version
- Current day and time in UTC
- Server Uptime
- Server load
- Total traffic
- Total number of incoming requests
- The webserver's CPU usage
- PIDs with the respective clients and so much more.

Let's now shift gears and see how you can get up-to-date statistics about Apache web server.

## Testing Environment

```
Operating System:    Ubuntu 20.04
Application:         Apache HTTP server
Version:             2.4.41
IP address:          34.123.9.111
Document root:       /var/www/html
```

## Enable mod\_status in Apache Ubuntu

By default, Apache ships with the **mod\_status** module already enabled. You can verify this by checking the **mods\_enabled** directory by running [ls command](#) as shown:

```
$ ls /etc/apache2/mods-enabled
```

```
tecmin@apache:~$ ls /etc/apache2/mods-enabled/
access_compat.load  authn_file.load  autoindex.load  env.load  mpm_event.load  setenvif.conf
alias.conf          authz_core.load  deflate.conf     filter.load  negotiation.conf setenvif.load
alias.load          authz_host.load  deflate.load     mime.conf   negotiation.load status.conf
auth_basic.load     authz_user.load  dir.conf         mime.load   reqtimeout.conf  status.load
authn_core.load     autoindex.conf   dir.load         mpm_event.conf reqtimeout.load

tecmin@apache:~$
tecmin@apache:~$
```

Check mod\_status Module in Apache Ubuntu

Ensure that the `status.conf` and `status.load` files are present. If not, you need to enable `mod_status` module by invoking the command:

```
$ sudo /usr/sbin/a2enmod status
```

## Configure mod\_status in Apache Ubuntu

As stated earlier, the `mod_status` is already enabled. However, additional tweaks are required for you to access the server-status page. To do so, you need to modify the `status.conf` file.

```
$ sudo vim /etc/apache2/mods-enabled/status.conf
```

Set the **Require ip** directive to reflect the IP address of the machine that you will be accessing the server from.

```
<IfModule mod_status.c>
# Allow server status reports generated by mod_status,
# with the URL of http://servername/server-status
# Uncomment and change the "192.0.2.0/24" to allow access from other hosts.

<Location /server-status>
    SetHandler server-status
    Require local
    Require ip 192.0.2.0/24
</Location>

# Keep track of extended status information for each request
ExtendedStatus On
```

Configure mod\_status Module in Apache Ubuntu

Save the changes and restart Apache for the changes to take effect to confirm the status as shown:

```
$ sudo systemctl restart apache2
```

Then verify the status of Apache and ensure it up and running.

```
$ sudo systemctl status apache2
```

```

tecmint@apache:~$
tecmint@apache:~$ sudo systemctl restart apache2
tecmint@apache:~$
tecmint@apache:~$
tecmint@apache:~$ sudo systemctl status apache2
● apache2.service - The Apache HTTP Server
   Loaded: loaded (/lib/systemd/system/apache2.service; enabled; vendor preset: enabled)
   Active: active (running) since Thu 2020-09-24 20:38:09 UTC; 13s ago
     Docs: https://httpd.apache.org/docs/2.4/
   Process: 3363 ExecStart=/usr/sbin/apachectl start (code=exited, status=0/SUCCESS)
  Main PID: 3386 (apache2)
    Tasks: 55 (limit: 4713)
   Memory: 5.3M
    CGroup: /system.slice/apache2.service
            └─3386 /usr/sbin/apache2 -k start
               └─3387 /usr/sbin/apache2 -k start
                  └─3388 /usr/sbin/apache2 -k start

```

Check Apache Status in Ubuntu

Thereafter, browse the web server's URL as shown.

```
http://server-ip/server-status
```

You will get a status HTML page displaying a host of Apache's information and an array of statistics as shown.

**Apache Server Status for 34.123.9.111 (via 34.123.9.111)**

Server Version: Apache/2.4.41 (Ubuntu)  
 Server MPM: prefork  
 Server Built: 2020-08-12T19:46:17

---

Current Time: Monday, 28-Sep-2020 06:20:23 UTC  
 Restart Time: Monday, 28-Sep-2020 06:17:44 UTC  
 Parent Server Config. Generation: 1  
 Parent Server MPM Generation: 0  
 Server uptime: 2 minutes 38 seconds  
 Server load: 0.27 1.31 0.88  
 Total accesses: 3 - Total Traffic: 5 kB - Total Duration: 3  
 CPU Usage: u.04 s.01 cu0 cs0 - .0316% CPU load  
 .019 requests/sec - 32 B/second - 1706 B/request - 1 ms/request  
 1 requests currently being processed, 5 idle workers

W.....  
 .....  
 .....

Scoreboard Key:  
 " " Waiting for Connection, "S" Starting up, "R" Reading Request,  
 "W" Sending Reply, "K" Keepalive (read), "D" DNS Lookup,  
 "C" Closing connection, "L" Logging, "G" Gracefully finishing,  
 "I" Idle cleanup of worker, "." Open slot with no current process

| Srv | PID  | Acc   | M | CPU  | SS  | Req | Dur | Conn | Child | Slot | Client       | Protocol | VHost               | Request                     |
|-----|------|-------|---|------|-----|-----|-----|------|-------|------|--------------|----------|---------------------|-----------------------------|
| 0-0 | 2664 | 0/0/0 | W | 0.00 | 0   | 0   | 0   | 0.0  | 0.00  | 0.00 | 192.168.1.65 | http/1.1 | mail.tecmint.com:80 | GET /server-status HTTP/1.1 |
| 2-0 | 2666 | 0/3/3 | _ | 0.00 | 149 | 0   | 3   | 0.0  | 0.01  | 0.01 | 192.168.1.65 | http/1.1 | mail.tecmint.com:80 | GET /server-status HTTP/1.1 |

Srv: Child Server number, generation

Monitor Apache Ubuntu Performance

**NOTE:** To have the page refresh after every a given time interval, for example, 5 seconds, append the `"?refresh=5"` at the end of the URL.

```
http://server-ip/server-status?refresh=5
```

This provides a better monitoring capacity of your server's performance than the plain static HTML page earlier on.

That's all for now about the `mod_status` module. Stay Tuned to Tecmint for so much more.

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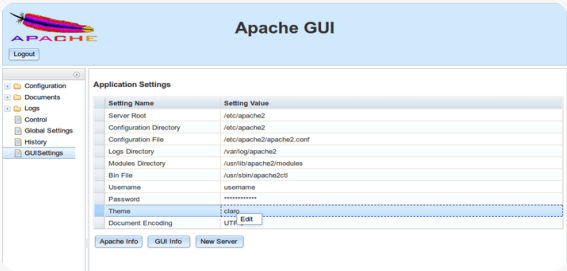
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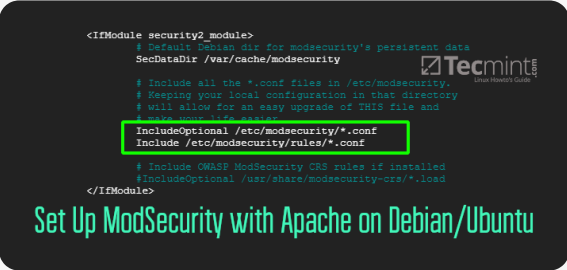
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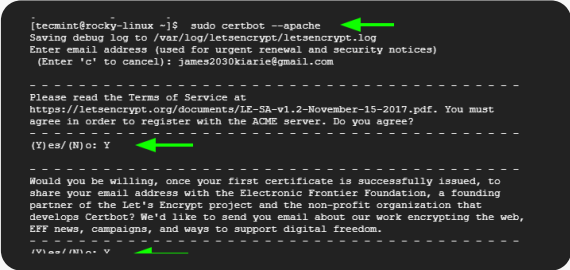
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