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Linux and Unix tutorials for new and seasoned sysadmin

nginx: See Active connections / Connections Per Seconds

last updated February 25, 2013 **in Linux, Nginx, UNIX**

How do I monitor my nginx server status and connections requests per seconds under Linux or Unix like operating systems?

NGIИX

nginx server has a module called HttpStubStatusModule. This module provides the ability to get some status from nginx. You will get the following information:

1. Number of all open connections.
2. Stats about accepted connections.
3. Connections per second and so on.

Configuration

Edit nginx.conf file:

```
# vi nginx.conf
```

Add or append the following in context location:

```
location /nginx_status {
        # Turn on stats
        stub_status on;
        access_log   off;
        # only allow access from 192.168.1.5 #
        allow 192.168.1.5;
        deny all;
    }
```

Save and close the file. Reload nginx server:

```
# service nginx reload
```

OR

```
# nginx -s reload
```
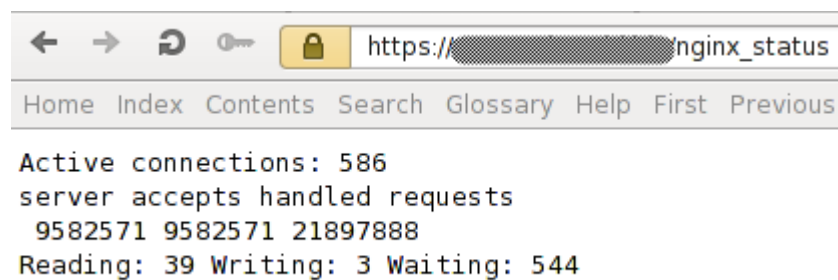
Test it

Open a web-browser and type the following url:

```
http://your-domain-name-here/nginx_status
```

OR

```
http://ip.address.here/nginx_status
```

Sample outputs:

Fig.01: nginx Status Monitor with HttpStubStatusModule

Where,

1. 586 = Number of all open connections
2. 9582571 = Accepted connections
3. 9582571 = Handled connections
4. 21897888 = Handles requests

How do I calculate connections per seconds?

```
Requests per connection = handles requests / handled connections
Requests per connection = 21897888/9582571 (pass this to bc -l using echo '21897888
Requests per connection = 2.28
```

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Posted by: Vivek Gite

The author is the creator of nixCraft and a seasoned sysadmin, DevOps engineer, and a trainer for the Linux operating system/Unix shell scripting. Get the **latest tutorials on SysAdmin, Linux/Unix and open source topics via RSS/XML feed** or weekly email newsletter.

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Centreon March 3, 2013 at 3:42 pm

Very interesting tips !
Thank for that ;) I'll test it soon

Julien March 9, 2013 at 9:31 pm

Have you tried logtop ?

logtop provide live statistics on a "tail -f any_log_file" :
For example, to get your top articles if your articles contains the pattern /article/ :
tail -f /var/log/*/access.log | grep –line-buffered /article/ | logtop

Or to get top IPs :
tail -f /var/log/*/access.log | cut -d' ' -f1 | logtop
(You may prefer awk '{print $1; fflush();}' if you have a very slow traffic cause cut is buffering)

logtop is in Debian testing and backports, or : https://github.com/JulienPalard/logtop

Paul September 17, 2013 at 4:28 pm

Works like a charm, thanks.

Any idea if it's possible to Ajax / real-time this data?

jaydeep June 8, 2015 at 6:50 am

Hi all,

I have done limited connections configuration to the nginx.

But i want ot know how to test the following configurations

For example i have limited one connection per ip in the nginx.

But if I opened 2 tabs from the browser and open the web even it is accessing

So i need to know how we can test the configurations for following
1). limited connections per ip
2). limited rate
3). and I have to access the particular files from the php file only, if we access directly it should not show
suppose any documents, audio and video files should not play directly, if i access through php file

it should show.

I have attached my nginx.conf file png.

Francesco April 21, 2016 at 8:18 pm

```
curl --silent http://127.0.0.1/nginx_status|sed '3q;d'|awk '{ print "echo " $3"/"$2"|bc -l"
}'|sh
```

test May 5, 2016 at 8:45 pm

Thank you!

Lito July 17, 2017 at 3:24 pm

Is it possible to get the total connections made to every server block? I have nginx serving several domains, and I would like to know how many connections are made to every domain, not the total. Is it possible?

Still, have a question? Get help on our forum!

Tagged as: /etc/nginx/nginx.conf, /usr/local/etc/nginx/nginx.conf, /usr/local/nginx/conf/nginx.conf, nginx HttpStubStatusModule, Easy

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