





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nginx virtual host traffic status module







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added traffic calculation description

 **vozlt** authored a day ago latest commit 2995495f4c 

 share	first commit	4 days ago
 src	first commit	4 days ago
 util	first commit	4 days ago
 LICENSE	first commit	4 days ago
 README.md	added traffic calculation description	a day ago
 config	first commit	4 days ago


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Dependencies

- [nginx](#)

Compatibility

- 1.7.x (last tested: 1.7.10)
- 1.6.x (last tested: 1.6.2)

Earlier versions is not tested.

Screenshots

Nginx Vhost Traffic Status

Server main

Version	Uptime	Connections				Requests			
		active	reading	writing	waiting	accepted	handled	Total	Req/s
1.7.10	4m 9s	1	0	1	0	45920	45920	46169	0

Server zones

Zone	Requests		Responses					Traffic				
	Total	Req/s	1xx	2xx	3xx	4xx	5xx	Total	Sent	Rcvd	Sent/s	Rcvd/s
server2	8940	0	0	8940	0	0	0	8940	2.8 MiB	742.1 KiB	0 B	0 B
server3	7983	0	0	7983	0	0	0	7983	2.5 MiB	662.7 KiB	0 B	0 B
server0	19626	0	0	19626	0	0	0	19626	979.6 MiB	1.6 MiB	835 B	333 B
server1	9619	0	0	9619	0	0	0	9619	3.0 MiB	798.5 KiB	0 B	0 B
*	46168	0	0	46168	0	0	0	46168	987.9 MiB	3.7 MiB	835 B	333 B

Upstreams

group0

Server	State	Response Time	Weight	MaxFails	FailTimeout	Requests		Responses					Traffic						
						Total	Req/s	1xx	2xx	3xx	4xx	5xx	Total	Sent	Rcvd	Sent/s	Rcvd/s		
10.10.10.21:80	up		2ms	1	1	10	9619	0	0	9619	0	0	0	0	9619	3.0 MiB	798.5 KiB	0 B	0 B
10.10.10.21:80	up		2ms	1	1	10	9619	0	0	9619	0	0	0	0	9619	3.0 MiB	798.5 KiB	0 B	0 B

group1

Server	State	Response Time	Weight	MaxFails	FailTimeout	Requests		Responses					Traffic						
						Total	Req/s	1xx	2xx	3xx	4xx	5xx	Total	Sent	Rcvd	Sent/s	Rcvd/s		
10.10.10.31:80	up		2ms	10	1	10	8462	0	0	8462	0	0	0	0	8462	2.6 MiB	702.4 KiB	0 B	0 B
10.10.10.32:80	up		2ms	10	1	10	8461	0	0	8461	0	0	0	0	8461	2.6 MiB	702.3 KiB	0 B	0 B
10.10.10.33:80	down		0ms	10	1	10	0	0	0	0	0	0	0	0	0	0 B	0 B	0 B	0 B
10.10.10.34:80	backup		0ms	10	1	10	0	0	0	0	0	0	0	0	0	0 B	0 B	0 B	0 B

::nogroups

Server	State	Response Time	Weight	MaxFails	FailTimeout	Requests		Responses					Traffic						
						Total	Req/s	1xx	2xx	3xx	4xx	5xx	Total	Sent	Rcvd	Sent/s	Rcvd/s		
127.0.0.1:9000	up		4ms	0	0	0	12711	0	0	12711	0	0	0	0	12711	963.7 MiB	1.0 MiB	0 B	0 B
127.0.0.1:8080	up		1ms	0	0	0	6666	0	0	6666	0	0	0	0	6666	15.7 MiB	488.2 KiB	0 B	0 B

Installation

1. Clone the git repository.

```
shell> git clone git://github.com/vozlt/nginx-module-vts.git
```

2. Add the module to the build configuration by adding `--add-module=/path/to/nginx-module-vts`
3. Build the nginx binary.
4. Install the nginx binary.

Synopsis

```
http {  
    vhost_traffic_status_zone;  
  
    ...  
  
    server {  
  
        ...  
  
        location /status {  
            vhost_traffic_status_display;  
            vhost_traffic_status_display_format html;  
        }  
    }  
}
```

Description

This is an Nginx module that provides access to virtual host status information. This is similar to the live activity monitoring of nginx plus. The built-in html is also taken from the demo page.

First of all, the directive `vhost_traffic_status_zone` is required, and then if the directive `vhost_traffic_status_display` is set, can be access to as follows:

- /status/format/json
- /status/format/html
 - If you request `/status/format/json`, will respond with a JSON document containing the current activity data for using in live dashboards and third-party monitoring tools.
 - If you request `/status/format/html`, will respond with the built-in live dashboard in HTML that requests internally to `/status/format/json`.

JSON document contains as follows:

```
{
  "nginxVersion": "...",
  "loadMsec": "...",
  "nowMsec": "...",
  "connections": {
    ...
  },
  "serverZones": {
    ...
  },
  "upstreamZones": {
    ...
  }
}
```

- main
 - Basic version, uptime(nowMsec - loadMsec)
- connections
 - Total connections and requests(same as stub_status_module in NGINX)
- serverZones
 - Traffic(in/out) and request and response counts per each server zone
 - Total traffic(In/Out) and request and response counts(It zone name is `*`)

- upstreamZones
 - Traffic(in/out) and request and response counts per server in each upstream group
 - Current settings(weight, maxfails, failtimeout...) in nginx.conf

The directive `vhost_traffic_status_display_format` sets the default output format that is one of json or html. (Default: json)

Traffic calculation as follows:

- ServerZones
 - in += requested_bytes
 - out += sent_bytes
- UpstreamZones
 - in += requested_bytes via the ServerZones
 - out += sent_bytes via the ServerZones

All calculations are working in log processing phase of Nginx. Internal redirects(X-Accel-Redirect or error_page) does not calculate in the UpstreamZones.

Caveats: this module relies on nginx logging system, so the traffic may be in certain circumstances different than real bandwidth traffic. Websocket, canceled downloads may be cause of inaccuracies.

Directives

vhost_traffic_status

-	-
Syntax	vhost_traffic_status [on off]
Default	off

-	-
Context	http, server, location

Description: Enables or disables the module working. If you set `vhost_traffic_status_zone` directive, is automatically enabled.

vhost_traffic_status_zone

-	-
Syntax	<code>vhost_traffic_status_zone [shared:name:size]</code>
Default	<code>shared:vhost_traffic_status:1m</code>
Context	http

Description: Sets parameters for a shared memory zone that will keep states for various keys. The cache is shared between all worker processes.

vhost_traffic_status_display

-	-
Syntax	<code>vhost_traffic_status_display</code>
Default	-
Context	http, server, location

Description: Enables or disables the module display handler.

vhost_traffic_status_display_format

-	-
Syntax	vhost_traffic_status_display_format [json html]
Default	json
Context	http, server, location

Description: Sets the display handler's output format. If you set json, will respond with a JSON document. If you set html, will respond with the built-in live dashboard in HTML.

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