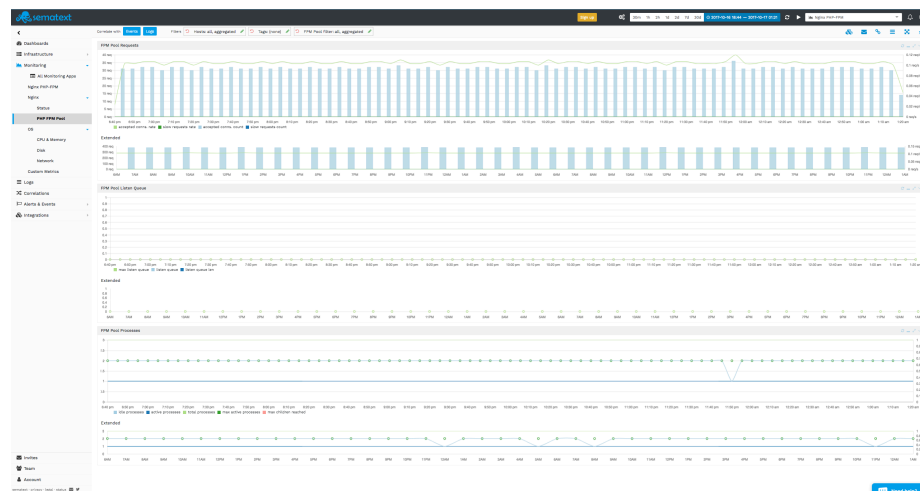


title: PHP FPM Monitoring Integration description: PHP FPM module is integrated with Nginx and Apache and its metrics are displayed as part of Nginx and Apache monitoring in Sematext. The integration automatically collects FPM metrics and lets you visualize and correlate them with the rest of your applications, and set up custom service checks and monitors to notify you in case there are problems with your FPM instances

Overview

PHP FPM module is integrated with Nginx and Apache and its metrics are displayed as part of Nginx and Apache monitoring in Sematext.



Integration

PHP-FPM monitoring instructions are below. To set up Nginx monitoring or Apache monitoring see their integration instructions.

**** Preparation for PHP-FPM monitoring ****

Activate PHP-FPM status page in your php-fpm config by removing the leading semicolon in the `;pm.status_path = /status` entry:

```
sudo sed -i -e "s/^;pm.status_path/pm.status_path/" /etc/php-fpm.d/www.conf
```

Or edit the file `/etc/php-fpm.d/www.conf` manually and ensure it contains this line:

```
pm.status_path = /status
```

Restart php-fpm:

```
# for upstart
```

```
sudo service php-fpm restart
```

```
# for systemd
sudo systemctl restart php-fpm.service
```

**** Get Node.js ****

Sematext Nginx and Apache monitoring agents are written in Node.js. Ensure Node.js > 4.x is installed where Nginx or Apache are running. See <https://nodejs.org/en/download/package-manager/>

Integration with Apache

**** Install sematext-agent-httpd via npm ****

```
sudo npm i sematext-agent-httpd -g
```

**** Setup monitoring with PHP-FPM status page via UNIX socket (recommended) ****

Run the service setup for the PHP-FPM monitoring agent. Pass your Sematext Monitoring App token (aka MONITORING_TOKEN), Apache status URL, and the PHP-FPM status URL to the setup command:

```
# sematext-httpd-setup -t YOUR_MONITORING_TOKEN_HERE -u HTTPD_STATUS_URL -p PHP_FPM_STATUS_URL
sudo sematext-httpd-setup -t YOUR_MONITORING_TOKEN_HERE -u http://localhost/server-status -p
```

**** Setup monitoring with PHP-FPM status page via HTTP ****

In some scenarios, e.g. in Docker containers, the monitoring agent might not have access to the local UNIX socket. In such cases the PHP-FPM status page needs to be exposed via Apache httpd. To expose the PHP-FPM status page via Apache httpd change the configuration /etc/httpd/conf.d/mod_fastcgi.conf e.g.:

```
LoadModule fastcgi_module modules/mod_fastcgi.so
```

```
<IfModule mod_fastcgi.c>
    DirectoryIndex index.php index.html index.shtml index.cgi
    AddHandler php5-fcgi .php
    Action php5-fcgi /php5-fcgi
    Alias /php5-fcgi /usr/lib/cgi-bin/php5-fcgi
    FastCgiExternalServer /usr/lib/cgi-bin/php5-fcgi -socket /var/run/php-fpm.sock -pa
```

```
    # For monitoring status with e.g. Sematext Monitoring for Apache httpd
    <LocationMatch "/(ping|status)">
        SetHandler php5-fcgi-virt
        Action php5-fcgi-virt /php5-fcgi virtual
    </LocationMatch>
</IfModule>
```

Run the setup command using HTTP URLs for status pages:

```
# sematext-httpd-setup YOUR_MONITORING_TOKEN_HERE HTTPD_STATUS_URL PHP_FPM_STATUS_URL
sudo sematext-httpd-setup YOUR_MONITORING_TOKEN_HERE -u http://localhost/server-status ht
```

Integration with Nginx

** Install sematext-agent-nginx via npm **

```
sudo npm i sematext-agent-httpd -g
```

** Setup Nginx Agent with php-fpm UNIX socket (recommended) **

Run the service setup for the PHP-FPM monitoring agent. Pass the Sematext Monitoring App token (aka SPM token), Nginx status URL, and the PHP-FPM status URL to the setup command:

```
sematext-nginx-setup -t YOUR_MONITORING_TOKEN_HERE -n http://localhost/nginx_status -p http:
```

** Setup with PHP-FPM status page via HTTP **

In some scenarios, e.g. in Docker containers, the monitoring agent might not have access to the local UNIX socket. In such cases the PHP-FPM status page needs to be exposed via Nginx. To expose the PHP-FPM status page via Nginx change the Nginx configuration

```
location ~ ^/(status|ping)$ { # access_log off; allow all; # allow SPM-
MONITOR-IP; # deny all; fastcgi_pass unix:/var/run/php-fpm.sock;
fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
fastcgi_param SCRIPT_NAME $fastcgi_script_name; include fastcgi_params;
} "
```

Then run the setup command using HTTP URLs for status pages:

```
# sematext-nginx-setup -t YOUR_MONITORING_TOKEN_HERE -n NGINX_STATUS_URL -p PHP_FPM_STATUS_U
sematext-nginx-setup -t YOUR_MONITORING_TOKEN_HERE -n http://localhost/nginx_status -p http:
```

Metrics

Metric Name	Key	Agg	Type	Description
total processes	php.fpm.processes	total	Long	the number of idle + active processes
active processes	php.fpm.processes	active	Long	the number of active processes

Metric Name	Key	Agg	Type	Description
max active processes	php.fpm.processes	Max	Long	the maximum number of active processes since FPM has started
idle processes	php.fpm.processes	Avg	Long	the number of idle processes
accepted conns. count	php.fpm.requests	Acceptedconns.count	Long	the number of requests accepted by the pool
listen queue	php.fpm.queue	listen	Long	the number of requests in the queue of pending connections
listen queue len	php.fpm.queue	listen.len	Long	the size of the socket queue of pending connections
max listen queue	php.fpm.queue	listen.max	Long	the maximum number of requests in the queue of pending connections since FPM has started
slow requests count	php.fpm.requests	Slow.count	Long	the number of requests that exceeded your request_slowlog_timeout value

Metric Name	Key	Agg	Type	Description
max children reached	php.fpm.processes	Sum	Long	the number of times, the process limit has been reached, when pm tries to start more children (works only for pm dynamic and ondemand)