title: Nginx Monitoring Integration description: The Sematext monitoring agent can collect many metrics from NGINX instances, including requests, reading, writing, waiting, active and more. Utilize built-in anomaly detection, threshold, and heartbeat alerting and send notifications to email and various chatops messaging services. Correlate events & logs, filter metrics by server or time, and visualize your cluster's health with out of the box graphs and custom dashboards

Sematext offers a simple, easy to install, Nginx monitoring agent with minimal CPU and memory overhead.

Install Nginx Monitoring Agent

This lightweight, open-source Nginx monitoring agent collects Nginx performance metrics and sends them to Sematext. It is available as an npm package that runs as a system service on your host. First create an Nginx Monitoring App in Sematext, then follow these instructions:

1. Make sure Node.js is installed. Version 10.* and newer are fully supported. Older versions may work too (but ensure npm is installed first).

2. Install Sematext Nginx Agent using npm:

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

3. Activate the Nginx stub_status module in the server section of your Nginx config file. If you are using the default Nginx config file it will be in /etc/nginx/sites-enabled/default:

   ```
   location /nginx_status {
     stub_status on;
     access_log off;
   }
   ```

4. Run the Agent setup script to generate the config file and upstart/systemd services. If needed, replace the `nginx_status` URL with your URL to the Nginx status page.

   ```
   sudo sematext-nginx-setup -t <your-token-goes-here> -n http://localhost/nginx_status
   ```

Configure Nginx Monitoring Agent

The setup script stores the configuration in **/etc/sematext/sematext-agent-nginx.config**

Change settings

In case you want to change settings later edit **/etc/sematext/sematext-agent-nginx.config**. A typical use case is to add a receiver URL for an On-Premises installation of Sematext Monitoring in the config file:

Default value for Sematext Cloud: `https://spm-receiver.sematext.com:443/receiver/v1/_bulk`

```
spmSenderBulkInsertUrl: http://your-server:8084/_bulk
```

Default value for Sematext Cloud: `https://event-receiver.sematext.com`

```
eventsReceiverUrl: http://your-server:8083
```

Restart the Sematext Nginx Agent after config changes, depending on the init system:

- Upstart:

```
sudo service sematext-agent-nginx restart
```

- Systemd:

```
sudo systemctl restart sematext-agent-nginx
```

- Launchd (Mac OS X):

```
sudo launchctl restart com.sematext.sematext-agent-nginx
```

- For tests you can just run the agent from command line:

```
sematext-agent-nginx --config /etc/sematext/sematext-agent-nginx.config
```

Note: To enable PHP-FPM stats monitoring see the PHP instructions.

Collected Nginx Metrics

Metric Name	Key	Agg	Type	Description
requests	nginx.request.count	Sum	Long	requests: Request count
reading	nginx.requests.connections.reading	Avg	Double	reading: Nginx reads request header
writing	nginx.requests.connections.writing	Avg	Double	writing: Nginx reads request body, processes request, or writes response to a client
waiting	nginx.requests.connections.waiting	Avg	Double	waiting: keep-alive connections

Metric Name	Key	Agg	Type	Description
active	nginx.requests.connections.active	Avg	Double	active: number of all open connections

Troubleshooting

If you are not seeing some or any Nginx metrics, you can create a "diagnostics dump" and contact us via live chat or email. To create the diagnostics dump just run the following:

```
sudo spm-nginx-diagnostics
```

This will create a ZIP file and show the Sematext Support email address to which the ZIP file should be sent.