

Php App Fine tuning and Deployment(Docker, Php-Fpm, Nginx, Supervisor, Cronjobs)

Step 1: Create a custom PHP settings file:

Touch custom-php-setting.ini

```
max_execution_time=300
```

```
upload_max_filesize=30M
```

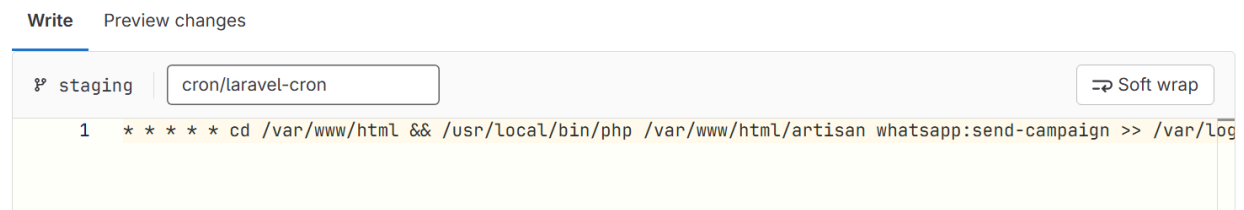
```
post_max_size=120M
```

A screenshot of a code editor window titled 'custom-php-setting.ini 69 B'. The editor shows four lines of configuration: '1 max_execution_time=300', '2 upload_max_filesize=30M', '3 post_max_size=120M', and '4'. On the right side of the editor, there are three icons: a copy icon, a save icon, and a download icon. A horizontal scrollbar is visible at the bottom of the editor area.

```
1 max_execution_time=300
2 upload_max_filesize=30M
3 post_max_size=120M
4
```

Step 2: Create a custom File for cronjobs in cron folder:

Touch laravel-cron

A screenshot of a code editor window. At the top, there are two tabs: 'Write' (selected) and 'Preview changes'. Below the tabs, there is a search bar containing 'cron/laravel-cron' and a 'Soft wrap' button. The editor shows a single line of a cron job: '1 * * * * cd /var/www/html && /usr/local/bin/php /var/www/html/artisan whatsapp:send-campaign >> /var/log'. The line is highlighted in yellow.

```
1 * * * * cd /var/www/html && /usr/local/bin/php /var/www/html/artisan whatsapp:send-campaign >> /var/log
```

Step 3: Create a custom File for php-fpm

Touch custom-fpm-setting.conf

```
[www]
```

```
; Unix user/group of the child processes.
```

```
user = www-data
```

```
group = www-data
```

```
; The address on which to accept FastCGI requests.
```

```
listen = 127.0.0.1:9000
```

; Process management settings

pm = dynamic

pm.max_children = 20

pm.start_servers = 5

pm.min_spare_servers = 3

pm.max_spare_servers = 10

Step4: Create a supervisor configuration file(php-artisan.conf inside supervisor folder):

A screenshot of a code editor window. The title bar at the top shows a gear icon, the filename 'php-artisan.conf', and the file size '2.00 KiB'. On the right side of the title bar are three icons: a folder, a document, and a download arrow. The editor area contains a configuration file with line numbers 1 through 16 on the left. The configuration is in INI format, with sections in square brackets. The first section is '[supervisord]' with settings for nodaemon, logfile, pidfile, childlogdir, and user. The second section is '[program:php-fpm]' with settings for process_name, command, autostart, autorestart, user, redirect_stderr, stdout_logfile, and priority. The file ends with '..' on line 16.

```
1 [supervisord]
2 nodaemon=true
3 logfile=/var/log/supervisord.log
4 pidfile=/var/run/supervisord.pid
5 childlogdir=/var/log/
6 user=root
7
8 [program:php-fpm]
9 process_name=%(program_name)s
10 command=php-fpm --nodaemonize
11 autostart=true
12 autorestart=true
13 user=root
14 redirect_stderr=true
15 stdout_logfile=/var/log/php-fpm.log
16 priority=5
..
```

```
18 [program:nginx]
19 process_name=(program_name)s
20 command= /bin/sh -c "sleep 3 && nginx -g 'daemon off;'"
21 autostart=true
22 autorestart=true
23 user=root
24 redirect_stderr=true
25 stdout_logfile=/var/log/nginx.log
26 priority=10
27
28 [program:php-horizon]
29 process_name=(program_name)s
30 command=/usr/local/bin/php /var/www/html/artisan horizon
31 autostart=true
32 autorestart=true
33 user=root
34 redirect_stderr=true
35 stdout_logfile=/var/log/horizon.log
36 priority=20
37
38 [program:kafka-message-event]
39 process_name=(program_name)s
40 command=/usr/local/bin/php /var/www/html/artisan kafka:message-event
41 autostart=true
42 autorestart=true
43 user=root
44 redirect_stderr=true
45 stdout_logfile=/var/log/kafka-message-event.log
46 priority=20
47
```

```
58 [program:kafka-chat-event]
59 process_name=(program_name)s
60 command=/usr/local/bin/php /var/www/html/artisan kafka:chat-event
61 autostart=true
62 autorestart=true
63 user=root
64 redirect_stderr=true
65 stdout_logfile=/var/log/kafka-chat-event.log
66 priority=20
67
68 [program:kafka-integration-event]
69 process_name=(program_name)s
70 command=/usr/local/bin/php /var/www/html/artisan kafka:integration-event
71 autostart=true
72 autorestart=true
73 user=root
74 redirect_stderr=true
75 stdout_logfile=/var/log/kafka-integration-event.log
76 priority=20
77
78
79 [program:laravel-cron]
80 command=cron -f -L /var/log/cron.log crond
81 autostart=true
82 autorestart=true
83 stdout_logfile=/var/log/cron.stdout.log
84 stderr_logfile=/var/log/cron.stderr.log
85 user=root
86 priority=30
87
```

Step5: create nginx configuration file:

Touch nginx.conf

```
nginx.conf 1.58 KiB
1 user nginx;
2 worker_processes auto;
3
4 error_log /var/log/nginx/error.log warn;
5 pid /var/run/nginx.pid;
6
7 events {
8     worker_connections 1024;
9 }
10
11 http {
12     include /etc/nginx/mime.types;
13     default_type application/octet-stream;
14     sendfile on;
15     keepalive_timeout 65;
16
17     client_max_body_size 30M;
18
19     server {
20         listen 80;
21         root /var/www/html/public;
22         index index.php index.html;
23
24         add_header 'Access-Control-Allow-Origin' '*' always;
25         add_header 'Access-Control-Allow-Methods' 'GET, POST, OPTIONS' always;
26         add_header 'Access-Control-Allow-Headers' 'Content-Type' always;
27         add_header Strict-Transport-Security "max-age=31536000; includeSubDomains" always;
28         add_header Content-Security-Policy "frame-ancestors https://*.mybigcommerce.com https://*.bigcommerce.com";
29
30         location / {
31             try_files $uri $uri/ /index.php?$query_string;
32         }
33
34         location ~ \.php$ {
35             include fastcgi_params;
36             fastcgi_pass 127.0.0.1:9000;
37             fastcgi_index index.php;
38             fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
39             fastcgi_param DOCUMENT_ROOT $document_root;
40             fastcgi_read_timeout 300;
41
42             add_header X-Frame-Options "SAMEORIGIN" always;
43             add_header X-Content-Type-Options "nosniff" always;
44             add_header X-XSS-Protection "1; mode=block" always;
45         }
46
47         location ~ /\.ht {
48             deny all;
49         }
50     }
51 }
```

Step6: Create php-fpm dockerfile (Dockerfile copy all above files)

```
Dockerfile_staging 1.98 KIB
1  # Base image
2  FROM php:8.2-fpm-alpine
3
4  # Set working directory
5  WORKDIR /var/www/html
6
7  # Install system dependencies + PHP extensions
8  RUN apk add --no-cache \
9      nginx supervisor gcc g++ make curl zip unzip git autoconf \
10     libpng-dev libjpeg-turbo-dev libwebp-dev freetype-dev librdfkafka-dev \
11     oniguruma-dev libxml2-dev icu-dev zlib-dev libzip-dev \
12     && docker-php-ext-configure gd \
13     --with-freetype \
14     --with-jpeg \
15     --with-webp \
16     && docker-php-ext-install -j$(nproc) \
17     gd pdo pdo_mysql mbstring xml intl zip bcmath opcache pcntl \
18     && pecl install rdafka \
19     && docker-php-ext-enable rdafka
20
21 # Install Composer
22 COPY --from=composer:2 /usr/bin/composer /usr/bin/composer
23 RUN ls -la
24
25 # Copy and activate development php.ini
26 RUN cp /usr/local/etc/php/php.ini-production /usr/local/etc/php/php.ini
27 COPY ./custom-php-setting.ini /usr/local/etc/php/conf.d/custom-php-setting.ini
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```

Step 7: Run Docker file

```
stage:
  stage: stage
  tags:
    - staging
  script:
    - |
    - cp /home/gitlab-runner/reflys-laravel-server/.env .
    - docker build -t reflys-laravel-server-stage -f Dockerfile_staging .
    - docker stop reflys-laravel-server-stage || true
    - docker rm reflys-laravel-server-stage || true
    - docker run -d --restart unless-stopped --name reflys-laravel-server-stage -p 9000:80 reflys-laravel-server-stage
  only:
    - staging
```

Step 8: Test the Supervisor process inside Dockerfile

Supervisor is running everything

```
0  USER      TIME      COMMAND
1  root      0:01 {supervisord} /usr/bin/python3 /usr/bin/supervisord -c /etc/supervisor/conf.d/php-artisan.conf
8  root      0:00 php-fpm: master process (/usr/local/etc/php-fpm.conf)
9  root      0:00 nginx: master process nginx -g daemon off;
10 root      0:03 /usr/local/bin/php /var/www/html/artisan kafka:chat-event
11 root      0:03 /usr/local/bin/php /var/www/html/artisan kafka:integration-event
12 root      0:03 /usr/local/bin/php /var/www/html/artisan kafka:message-event
14 root      0:03 /usr/local/bin/php /var/www/html/artisan kafka:user-event
15 root      0:03 /usr/local/bin/php /var/www/html/artisan horizon
16 root      0:00 crond -f -L /var/log/cron.log crond
17 www-data  0:00 php-fpm: pool www
18 www-data  0:00 php-fpm: pool www
65 root      0:05 /usr/local/bin/php artisan horizon:supervisor ca5ee97d576c-YyaC:supervisor-1 redis --workers-name=default
71 root      0:01 /usr/local/bin/php artisan horizon:work redis --name=default --supervisor=ca5ee97d576c-YyaC:supervisor-1
72 root      0:01 /usr/local/bin/php artisan horizon:work redis --name=default --supervisor=ca5ee97d576c-YyaC:supervisor-1
73 root      0:01 /usr/local/bin/php artisan horizon:work redis --name=default --supervisor=ca5ee97d576c-YyaC:supervisor-1
74 root      0:01 /usr/local/bin/php artisan horizon:work redis --name=default --supervisor=ca5ee97d576c-YyaC:supervisor-1
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78 root      0:01 /usr/local/bin/php artisan horizon:work redis --name=default --supervisor=ca5ee97d576c-YyaC:supervisor-1
79 root      0:01 /usr/local/bin/php artisan horizon:work redis --name=default --supervisor=ca5ee97d576c-YyaC:supervisor-1
80 root      0:01 /usr/local/bin/php artisan horizon:work redis --name=default --supervisor=ca5ee97d576c-YyaC:supervisor-1
81 root      0:01 /usr/local/bin/php artisan horizon:work redis --name=default --supervisor=ca5ee97d576c-YyaC:supervisor-1
82 root      0:01 /usr/local/bin/php artisan horizon:work redis --name=default --supervisor=ca5ee97d576c-YyaC:supervisor-1
86 nginx     0:00 nginx: worker process
87 nginx     0:00 nginx: worker process
88 nginx     0:00 nginx: worker process
89 nginx     0:00 nginx: worker process
294 root      0:00 sh
300 root      0:00 [php]
```

Step 9: Edit Dockerfile and copy fpm setting

```
25 # Copy and activate production php.ini and custom php.ini
26 RUN cp /usr/local/etc/php/php.ini-production /usr/local/etc/php/php.ini
27 COPY ./custom-php-setting.ini /usr/local/etc/php/conf.d/custom-php-setting.ini
28
29 # Copy and activate custom fpm config
30 COPY ./custom-fpm-setting.conf /usr/local/etc/php-fpm.d/www.conf
31
```

