Controlling Nginx with Supervisor

25/06/2017 - SUPERVISOR

This example shows us how to control nginx with supervisor so when nginx goes down for whatever reason, supervisor will bring it up again as a "foreground" process not as a "daemon".

Important

Supervisor uses `daemon off;` to start Nginx. The `daemon off;` directive tells Nginx to stay in the foreground. The `sudo service nginx stop/start/restart` commands won't work. For more information read Stack Overflow (https://stackoverflow.com/a/34821579/1251684) answer.

Current nginx process

As you can see below, Nginx is running in "daemon on" mode.

```
1. $ ps aux | grep nginx
2. root      17184  0.0  0.1 124968  1420 ?          Ss    16:18    0:00 nginx: master process /u:
```

Setup supervisor

```
 1. $ sudo nano /etc/supervisor/conf.d/nginx.conf
 2.
 3. [program:nginx]
 4. command=/usr/sbin/nginx -g "daemon off;"
 5. autostart=true
 6. autorestart=true
 7. startretries=5
 8. numprocs=1
 9. startsecs=0
10. process_name=%(program_name)s_%(process_num)02d
11. stderr_logfile=/var/log/supervisor/%(program_name)s_stderr.log
12. stderr_logfile_maxbytes=10MB
13. stdout_logfile=/var/log/supervisor/%(program_name)s_stdout.log
14. stdout_logfile_maxbytes=10MB
```

Let supervisor know about new config.

```
1. $ sudo supervisorctl reread
2. nginx: available
```

Let supervisor start nginx service.

```
1. $ sudo supervisorctl update
2. nginx: added process group
```

Verify if supervisor started nginx service.

```
1. $ sudo supervisorctl
2. nginx:nginx_00                RUNNING   pid 18429, uptime 0:01:47
3. supervisor>
```

Check

As you can see below, Nginx is running in "daemon off" mode.

```
1. $ ps aux | grep nginx
2. root     18429  0.0  0.9 124968  9932 ?        S    17:20   0:00 nginx: master process /u:
```

Note

If you want to start/stop a service that is controlled by supervisor, you'll need to use supervisor CLI tool like below.

```
 1. $ sudo supervisorctl
 2. nginx:nginx_00                   RUNNING   pid 18429, uptime 0:02:17
 3.
 4. supervisor> help
 5. default commands (type help ):
 6. =====================================
 7. add     exit      open  reload  restart   start   tail
 8. avail   fg        pid   remove  shutdown  status  update
 9. clear   maintail  quit  reread  signal    stop    version
10.
11. supervisor> stop nginx:nginx_00
12. nginx:nginx_00: stopped
13.
14. supervisor> start nginx:nginx_00
15. nginx:nginx_00: started
```