

## Ubuntu20 + nginx + php7.4-fpm + MariaDB

04.01.2022

Внимание! Сервер, развернутый по данной инструкции, содержит потенциальные уязвимости и предназначен только для создания быстрых прототипов.

Устанавливаем nginx:

```
$ sudo apt update  
$ sudo apt upgrade  
$ sudo apt install nginx -y
```

Проверяем:



Устанавливаем php7.4-fpm:

```
$ sudo apt install php7.4-fpm php-mysql -y
```

Находим и исправляем строки:

```
$ sudo nano /etc/nginx/sites-available/default
```

```
# Add index.php to the list if you are using PHP
index index.html index.htm index.php;
```

```
# pass PHP scripts to FastCGI server
#
location ~ \.php$ {
    include snippets/fastcgi-php.conf;
    #
    # With php-fpm (or other unix sockets):
    fastcgi_pass unix:/var/run/php/php7.4-fpm.sock;
    # With php-cgi (or other tcp sockets):
    # fastcgi_pass 127.0.0.1:9000;
}
```

Перезапускаем nginx:

```
$ sudo systemctl restart nginx
```

Создаем файл:

```
$ sudo nano /var/www/html/index.php
```

```
<?php

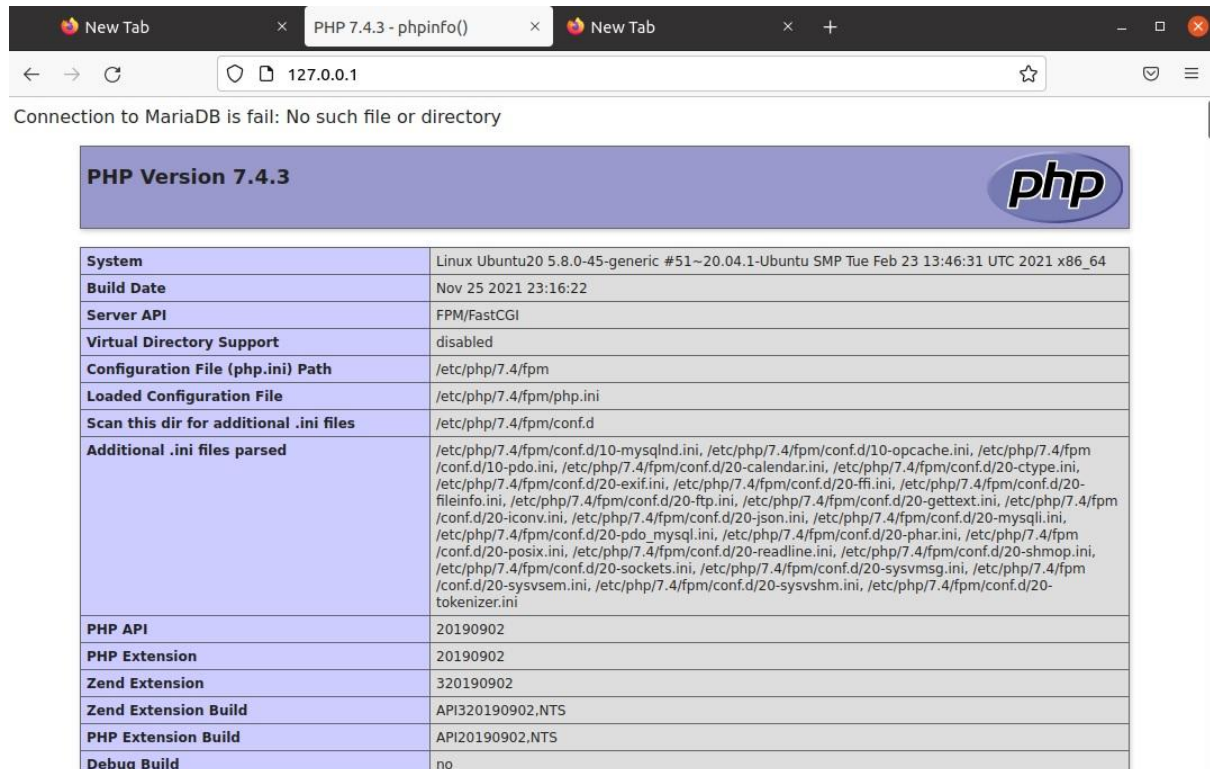
$conn = new mysqli("localhost", "root", "");

if ($conn->connect_error) {
    echo("Connection to MariaDB is fail: " . $conn->connect_error);
}
else {
    echo "Connecting to MariaDB is successful";
}

phpinfo();

?>
```

Проверяем:



Connection to MariaDB is fail: No such file or directory

**PHP Version 7.4.3**

System	Linux Ubuntu20 5.8.0-45-generic #51~20.04.1-Ubuntu SMP Tue Feb 23 13:46:31 UTC 2021 x86_64
Build Date	Nov 25 2021 23:16:22
Server API	FPM/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/7.4/fpm
Loaded Configuration File	/etc/php/7.4/fpm/php.ini
Scan this dir for additional .ini files	/etc/php/7.4/fpm/conf.d
Additional .ini files parsed	/etc/php/7.4/fpm/conf.d/10-mysqld.ini, /etc/php/7.4/fpm/conf.d/10-opcache.ini, /etc/php/7.4/fpm/conf.d/10-pdo.ini, /etc/php/7.4/fpm/conf.d/20-calendar.ini, /etc/php/7.4/fpm/conf.d/20-ctype.ini, /etc/php/7.4/fpm/conf.d/20-exif.ini, /etc/php/7.4/fpm/conf.d/20-ffi.ini, /etc/php/7.4/fpm/conf.d/20-fileinfo.ini, /etc/php/7.4/fpm/conf.d/20-ftp.ini, /etc/php/7.4/fpm/conf.d/20-gettext.ini, /etc/php/7.4/fpm/conf.d/20-iconv.ini, /etc/php/7.4/fpm/conf.d/20-json.ini, /etc/php/7.4/fpm/conf.d/20-mysqli.ini, /etc/php/7.4/fpm/conf.d/20-pdo_mysql.ini, /etc/php/7.4/fpm/conf.d/20-phar.ini, /etc/php/7.4/fpm/conf.d/20-posix.ini, /etc/php/7.4/fpm/conf.d/20-readline.ini, /etc/php/7.4/fpm/conf.d/20-shmop.ini, /etc/php/7.4/fpm/conf.d/20-sockets.ini, /etc/php/7.4/fpm/conf.d/20-sysvmsg.ini, /etc/php/7.4/fpm/conf.d/20-sysvsem.ini, /etc/php/7.4/fpm/conf.d/20-sysvshm.ini, /etc/php/7.4/fpm/conf.d/20-tokenizer.ini
PHP API	20190902
PHP Extension	20190902
Zend Extension	320190902
Zend Extension Build	API320190902.NTS
PHP Extension Build	API20190902.NTS
Debug Build	no

Ошибка подключения к MariaDB должна быть. MariaDB еще не развернута.

Устанавливаем MariaDB:

```
$ sudo apt install mariadb-server mariadb-client -y
```

Добавляем строку:

```
$ sudo nano /etc/mysql/mariadb.conf.d/50-server.cnf
```

```
[mysqld]
```

```
skip-grant-tables
```

Назначаем права пользователю root и перезапускаем MariaDB:

```
$ sudo mysql -u root
```

```
GRANT ALL ON *.* TO 'root'@'localhost' IDENTIFIED BY '' WITH GRANT OPTION;  
FLUSH PRIVILEGES;  
EXIT
```

```
$ sudo systemctl restart mysql
```

Все кавычки в GRANT простые одинарные.


Проверяем:

PHP 7.4.3 - phpinfo()

127.0.0.1

Connecting to MariaDB is successful

### PHP Version 7.4.3



System	Linux Ubuntu20 5.11.0-43-generic #47~20.04.2-Ubuntu SMP Mon Dec 13 11:06:56 UTC 2021 x86_64
Build Date	Nov 25 2021 23:16:22
Server API	FPM/FastCGI
Virtual Directory Support	disabled
Configuration File (php.ini) Path	/etc/php/7.4/fpm
Loaded Configuration File	/etc/php/7.4/fpm/php.ini
Scan this dir for additional .ini files	/etc/php/7.4/fpm/conf.d
Additional .ini files parsed	/etc/php/7.4/fpm/conf.d/10-mysqld.ini, /etc/php/7.4/fpm/conf.d/10-opcache.ini, /etc/php/7.4/fpm/conf.d/10-pdo.ini, /etc/php/7.4/fpm/conf.d/20-calendar.ini, /etc/php/7.4/fpm/conf.d/20-ctype.ini, /etc/php/7.4/fpm/conf.d/20-exif.ini, /etc/php/7.4/fpm/conf.d/20-ffi.ini, /etc/php/7.4/fpm/conf.d/20-fileinfo.ini, /etc/php/7.4/fpm/conf.d/20-ftp.ini, /etc/php/7.4/fpm/conf.d/20-gettext.ini, /etc/php/7.4/fpm/conf.d/20-iconv.ini, /etc/php/7.4/fpm/conf.d/20-json.ini, /etc/php/7.4/fpm/conf.d/20-mysqli.ini, /etc/php/7.4/fpm/conf.d/20-pdo_mysql.ini, /etc/php/7.4/fpm/conf.d/20-phar.ini, /etc/php/7.4/fpm/conf.d/20-posix.ini, /etc/php/7.4/fpm/conf.d/20-readline.ini, /etc/php/7.4/fpm/conf.d/20-shmop.ini, /etc/php/7.4/fpm/conf.d/20-sockets.ini, /etc/php/7.4/fpm/conf.d/20-sysvmsg.ini, /etc/php/7.4/fpm/conf.d/20-sysvsem.ini, /etc/php/7.4/fpm/conf.d/20-sysvshm.ini, /etc/php/7.4/fpm/conf.d/20-tokenizer.ini
PHP API	20190902
PHP Extension	20190902
Zend Extension	320190902
Zend Extension Build	API320190902.NTS
PHP Extension Build	API20190902.NTS
Debug Build	no

Full success!

Scribbled by Vakh.