

- 安装LEMP(Linux-Engine/Nginx-MySQL-PHP)堆栈

1. 安装MySQL以管理站点数据

- (1) 安装软件包

```
idchannov@id-srv:~$ sudo apt-get install mysql-server
```

- (2) 完善MySQL相关配置

```
idchannov@id-srv:~$ sudo mysql_secure_installation
```

【配置选择】使用 `auth_socket` 身份验证插件(n)、删除匿名用户(y)、禁用远程root登录(y)、删除测试数据库并重新加载配置(y)

- (3) 将root的身份验证方法从 `auth_socket` 切换为 `mysql_native_password`

```
# 从终端打开MySQL提示符
idchannov@id-srv:~$ sudo mysql
# 检查每个MySQL用户帐户使用的身份验证方法
mysql> SELECT user,authentication_string,plugin,host FROM mysql.user;
# 将root帐户配置为使用密码进行身份验证
mysql> ALTER USER 'root'@'localhost' IDENTIFIED WITH
mysql_native_password BY 'password';
# 重新加载授权表并使新的更改生效
mysql> FLUSH PRIVILEGES;
```

```
mysql> SELECT user,authentication_string,plugin,host FROM mysql.user;
+-----+-----+-----+-----+
| user          | authentication_string | plugin             | host          |
+-----+-----+-----+-----+
| root          | *65E6ED6F46974D4E6BB2AD24869039CC920EED83 | mysql_native_password | localhost    |
| mysql.session | *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE | mysql_native_password | localhost    |
| mysql.sys     | *THISISNOTAVALIDPASSWORDTHATCANBEUSEDHERE | mysql_native_password | localhost    |
| debian-sys-maint | *100C626D20AC9F345D95406751962FDE6CE62F01 | mysql_native_password | localhost    |
+-----+-----+-----+-----+
4 rows in set (0.00 sec)
```

- (4) 试运行数据库系统 `sudo mysql -u root -p` 并键入root用户密码

```
idchannov@id-srv:~$ sudo mysql -u root -p
Enter password:
Welcome to the MySQL monitor.  Commands end with ; or \g.
Your MySQL connection id is 6
Server version: 5.7.30-0ubuntu0.18.04.1 (Ubuntu)

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Type 'help;' or '\h' for help. Type '\c' to clear the current input statement.

mysql>
```

- (5) 退出 `mysql> exit;`

2. 安装PHP并配置Nginx以使用PHP处理器

- (1) 安装fastCGI进程管理器/php-fpm)以及一个附加的帮助程序包

```
idchannov@id-srv:~$ sudo apt install php-fpm php-mysql
```

- (2) 编辑一个新的服务器块配置文件

```
# 编辑配置文件
idchannov@id-srv:~$ sudo vim /etc/nginx/sites-
available/wp.sec.cuc.edu.cn
# 创建软连接
idchannov@id-srv:~$ sudo ln -s /etc/nginx/sites-
available/wp.sec.cuc.edu.cn /etc/nginx/sites-enabled/
```

配置文件内容:

```
server {
    listen localhost:8080;
    root /var/www/wordpress;
    index index.html index.htm index.nginx-debian.html;
    server_name wp.sec.cuc.edu.cn;
    location / {
        try_files $uri $uri/ =404;
    }
    location ~ \.php$ {
        include snippets/fastcgi-php.conf;
        fastcgi_pass unix:/var/run/php/php7.0-fpm.sock;
    }
}
```

(3) 从 /sites-enabled/ 目录取消链接默认配置文件

```
idchannov@id-srv:~$ sudo unlink /etc/nginx/sites-enabled/default
```

(4) 测试新配置文件的语法错误

```
idchannov@id-srv:~$ sudo nginx -t
```

(5) 重新加载Nginx进行必要的更改

```
idchannov@id-srv:~$ sudo systemctl reload nginx
```