部署文档

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项目链接: 疫情资料站前台 covid.milkyship.cn

疫情资料站后台 covid.milkyship.cn/backend/web

基本运行环境

操作系统: Ubuntu 18

相关软件: Apache2, MySql5, Python3

目录

部署	聲文档		1
	安装服务器软件		
	1.1.	从命令行登录云服务器	3
	1.2.	换源	3
	1.3.	安装软件	4
2.	一键部署项目		6
3. 如何访问		5问	9
			•

1. 安装服务器软件

1.1. 从命令行登录云服务器

从云服务提供商购买到服务器之后,获得公网 ip 地址,用户名,密码。在命令行或 XShell 软件或云服务提供商提供的在线控制台,登录服务器,命令行使用

\$ ssh 用户名@ip 地址

然后输入密码,完成登录。

1.2. 换源

如果是大陆地区服务器,先进行换源,使用命令:

- \$ sudo cp /etc/apt/sources.list /etc/apt/sources.bak1
- # 备份原始配置文件
- \$ sudo vi /etc/apt/sources.list
- # 编辑配置文件

替换文件内容为

阿里云 apt 镜像

deb http://mirrors.aliyun.com/ubuntu/ bionic main restricted
universe multiverse

deb-src http://mirrors.aliyun.com/ubuntu/ bionic main
restricted universe multiverse

deb http://mirrors.aliyun.com/ubuntu/ bionic-security main
restricted universe multiverse

deb-src http://mirrors.aliyun.com/ubuntu/ bionic-security main
restricted universe multiverse

deb http://mirrors.aliyun.com/ubuntu/ bionic-updates main
restricted universe multiverse

deb-src http://mirrors.aliyun.com/ubuntu/ bionic-updates main
restricted universe multiverse

```
deb http://mirrors.aliyun.com/ubuntu/ bionic-proposed main
restricted universe multiverse

deb-src http://mirrors.aliyun.com/ubuntu/ bionic-proposed main
restricted universe multiverse

deb http://mirrors.aliyun.com/ubuntu/ bionic-backports main
restricted universe multiverse

deb-src http://mirrors.aliyun.com/ubuntu/ bionic-backports
main restricted universe multiverse
```

随后执行

```
$ sudo apt-get update
$ sudo apt-get upgrade
```

更新软件列表并执行更新。

1.3. 安装软件

```
$ sudo apt install php
$ sudo apt install apache2
$ sudo apt install mysql-server
$ sudo apt install mysql-client
$ sudo apt install libmysqlclient-dev
```

然后配置 mysql 数据库,修改用户名密码等

```
mysql -u root -p
#输入密码登录 MySQL,设置项目用户
mysql> use mysql
mysql> update user set host = '%' where user = 'root';
mysql> create user db_user_proj identified by ' NiePeng_niubi
';
mysql> create database covid19 default character set utf8mb4
collate utf8mb4_general_ci;
mysql> grant all privileges on covid19.* to db_user_proj@'%'
identified by 'NiePeng_niubi';
mysql> FLUSH PRIVILEGES;
```

mysql> quit

然后继续安装其它软件与库

```
# 安装爬虫与 mysql 的接口库
$ sudo apt install pip3
$ pip3 install pymysql

# 安装 git
$ sudo apt install git

# 安装 composer
$ sudo apt install curl
$ curl -sS https://getcomposer.org/installer | php
$ mv composer.phar /usr/local/bin/composer
```

2. 一键部署项目

进入 apache2 网页根目录

\$ cd /usr/www/html

从 github 获取项目

\$ git clone https://github.com/ MilkyBoat/Internet-databasedevelopment-COVID-19.git covid19

使用项目一键部署脚本安装并配置

```
# 进入项目文件夹
$ cd covid19
# 授予权限
$ sudo chmod -R 777 ./*
# 执行一键部署脚本
$ ./install.sh
```

在配置过程中根据脚本信息引导填写数据库用户名密码(如果按照上面的指引执行可以直接按回车使用默认值),即可完成项目配置安装。

```
#!/usr/bin/env bash
if ! [ -x "$(command -v php)" ]; then
 echo 'Error: php is not installed.' >&2
 exit 1
fi
if ! [ -x "$(command -v mysql)" ]; then
 echo 'Error: mysql is not installed.' >&2
 exit 1
fi
if ! [ -x "$(command -v python3)" ]; then
 echo 'Error: python3 is not installed.' >&2
 exit 1
fi
if ! [ -x "$(command -v pip3)" ]; then
 echo 'Error: pip3 is not installed.' >&2
 exit 1
fi
```

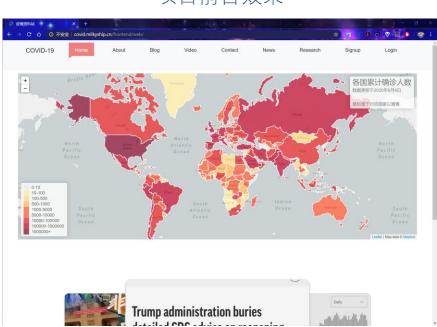
```
user=root
read -p "Please input your MySQL user name:" name
if [ ! -n "$name" ] ;then
 echo "Using the default user:root!"
else
 user=$name
 echo "Using the user $name"
fi
password=""
stty -echo
read -p "Please enter your MySQL password:" psd
stty echo
if [ ! -n "$psd" ] ;then
 echo "Using the empty password."
else
 password=$psd
fi
echo PHP INIT
php init
echo PROJECT CONFIGING
cat << EOF
<?php
return [
    'components' => [
       'db' => [
           'class' => 'yii\db\Connection',
           'dsn' => 'mysql:host=localhost;dbname=covid19',
           'username' => '${user}',
           'password' => '${password}',
           'charset' => 'utf8mb4',
       1,
       'mailer' => [
           'class' => 'yii\swiftmailer\Mailer',
           'viewPath' => '@common/mail',
       ],
   1,
];
EOF
```

```
) > ./common/config/main-local.php
echo Initiating database: covid19
php yii migrate
pip3 install pymysql
chmod +x /spider/spider.sh
# crontab -e
# service cron restart
if ! [ -x "$(command -v composer)" ]; then
   curl -sS https://getcomposer.org/installer | php
   mv composer.phar /usr/local/bin/composer
fi
echo COMPOSER UPDATE
composer config -g repo.packagist composer
https://mirrors.aliyun.com/composer/
composer install -vvv
composer update -vvv
```

3. 如何访问

项目根目录下的 index.html 会自动重定向到/frontend/web, 故可以直接使用 ip 地址访问前台,后台则需要使用 ip 地址/backend/web 以访问。

如果有域名,可以在域名提供商处将域名解析到该服务器所在 ip, 既可以使用域名访问项目。



项目前台效果

项目后台效果

