

Ubuntu Linux

- [!\[\]\(1207edb9a08751d3d55970560645ed23_img.jpg\) _____](#)
- [!\[\]\(d7a34a706cfa4ef37c62a369101e1b36_img.jpg\) 2025 \(Ubuntu24.04\) _____](#)
- [!\[\]\(7325769475e8f4bf67f57a0cbebc8ab9_img.jpg\) _____](#)
- [SSL](#)
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- [SSH !\[\]\(1a468f12cdfc63dc07896d0781cf55ec_img.jpg\) !\[\]\(a9a0baec8ceb7d7c04180806eca8d32a_img.jpg\) !\[\]\(c1ab807d6aebb565b3082513037b5622_img.jpg\)](#)
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- [!\[\]\(bf6def3f21dfdb4b0473718404626f2c_img.jpg\) htop Glances](#)
- [!\[\]\(b0485233f98b941f2381b77fe3b6686f_img.jpg\) Monit !\[\]\(fd5c36680d4471e605732b36788643ca_img.jpg\) !\[\]\(cfcb6e3fe14cf2366208370376c5c0f9_img.jpg\)](#)
- [!\[\]\(17fbea93b96fb691279feb16b3dfba47_img.jpg\) log](#)
- [pm2 !\[\]\(c943c40aac9d4dd9481d8d4b932db11b_img.jpg\) !\[\]\(78722dd8a40b4b8cba6c4bc2496af0ff_img.jpg\)](#)

????

???root??

```
sudo su
```

```
vps root XD
```

????

```
dpkg-reconfigure tzdata
```

????

```
vi /etc/locale.gen  
zh_TW.UTF-8 mark  
locale-gen
```

????????????

```
apt update  
apt dist-upgrade  
reboot
```

????????? root ??

```
sudo su
```

?????

```
apt install nginx php-fpm php-gd php-mbstring php-gd php-xml php-mysql mysql-server mysql-client certbot python3-certbot-nginx
```

apt-install php□ apache2

??MySQL

??mysql??

root□ mysql

```
mysql -u root
```

????

```
ALTER USER 'root'@'localhost' IDENTIFIED WITH caching_sha2_password BY 'yourpassword'; exit;
```

yourpassword □

root□

??conf?

```
[client]
default-character-set = utf8mb4

[mysqld]
character-set-server = utf8mb4
max_connections = 600
innodb_read_io_threads = 24
innodb_write_io_threads = 24
expire_logs_days = 7
max_binlog_size = 1G
```

server□ binlog_size□ log□

? ~/.my.cnf ????

```
[client]
password = yourpassword
```

MySQL???????

?????

```
mysqladmin -u root create site
```

?????

```
mysqladmin -u root drop site
```

?????

```
mysqldump -u root site > site.sql
```

?????

```
mysql -u root site < site.sql
```



phpMyAdmin XD

?????????????

```
ufw enable
ufw allow from xxx.xxx.xxx.xxx (固定IP)
ufw allow 80/tcp
ufw allow 'Nginx HTTP'
ufw allow 'Nginx HTTPS'
```

?????????php??

```
add-apt-repository ppa:ondrej/php
aptitude update
```

????2025 (Ubuntu24.04??)

???root??

```
sudo su
```

```
vps root
██████████
```

root

XD

????

```
dpkg-reconfigure tzdata
```

????

```
vi /etc/locale.gen
zh_TW.UTF-8 mark
locale-gen
```

?????????????????????????

```
apt update
apt dist-upgrade
vi /etc/hostname
reboot
```

????????? root ??

```
sudo su
```

?????

```
apt install nginx php-fpm php-gd php-mbstring php-gd php-xml php-mysql mysql-server mysql-client certbot python3-certbot-nginx
```

Drupal□ WordPress□□□□□□□□□□

php□□□□□□□

□□□ apt-install php□□□□□

apache2

??MySQL

??mysql??

□ root□□ mysql

```
mysql -u root
```

????

```
ALTER USER 'root'@'localhost' IDENTIFIED WITH caching_sha2_password BY 'yourpassword'; exit;
```

yourpassword □□□□□□□□□

root□□□□□□□□□□

??conf?

```
[client]
default-character-set = utf8mb4

[mysqld]
character-set-server = utf8mb4
max_connections = 600
innodb_read_io_threads = 24
innodb_write_io_threads = 24
expire_logs_days = 7
max_binlog_size = 1G
```

□□□□□

server□ binlog_size□□□□□

log□□□□□□□

? ~/.my.cnf ????

```
[client]
password = yourpassword
```

MySQL???????

?????

```
mysqladmin -u root create site
```

?????

```
mysqladmin -u root drop site
```

?????

```
mysqldump -u root site > site.sql
```

?????

```
mysql -u root site < site.sql
```



phpMyAdmin XD

???????????????

```
ufw enable
ufw allow from xxx.xxx.xxx.xxx (固定IP)
ufw allow 'Nginx HTTP'
ufw allow 'Nginx HTTPS'
```

?????????php??

```
add-apt-repository ppa:ondrej/php
aptitude update
```

```
apt install php7.4-fpm php7.4-gd php7.4-mbstring php7.4-gd php7.4-xml php7.4-mysql  
apt install php5.6-fpm php5.6-gd php7.4-mbstring php5.6-gd php5.6-xml php5.6-mysql
```

??Docker

```
sudo apt install -y ca-certificates curl gnupg lsb-release
```

```
sudo mkdir -p /etc/apt/keyrings  
curl -fsSL https://download.docker.com/linux/ubuntu/gpg | sudo gpg --dearmor -o  
/etc/apt/keyrings/docker.gpg
```

```
echo \  
"deb [arch=$(dpkg --print-architecture) signed-by=/etc/apt/keyrings/docker.gpg]  
https://download.docker.com/linux/ubuntu \  
$(lsb_release -cs) stable" | sudo tee /etc/apt/sources.list.d/docker.list > /dev/null
```

```
sudo apt update  
sudo apt install -y docker-ce docker-ce-cli containerd.io docker-buildx-plugin docker-compose-  
plugin
```

??Portainer

```
docker pull portainer/portainer-ce:latest  
docker run -d -p 9000:9000 --restart always -v /var/run/docker.sock:/var/run/docker.sock  
portainer/portainer-ce:latest
```

Nginx conf

```
server {  
    listen 80;  
    server_name docker.yoursite.com.tw;  
  
    location / {  
        proxy_pass http://127.0.0.1:9000;  
        proxy_set_header Host $host;  
        proxy_set_header X-Real-IP $remote_addr;  
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
        proxy_set_header X-Forwarded-Proto $scheme;  
    }  
}
```

```
}
```

?????Mysql

```
version: '3.8'

services:
  mysql:
    image: mysql:5.7
    container_name: my_mysql57
    restart: always
    environment:
      MYSQL_ROOT_PASSWORD: yourpassword      # 亂碼
      TZ: Asia/Taipei
    ports:
      - "43306:3306"
    volumes:
      - ./mysql57_data:/var/lib/mysql

  phpmyadmin:
    image: phpmyadmin/phpmyadmin
    container_name: my_phpmyadmin
    restart: always
    ports:
      - "48081:80"
    environment:
      - PMA_ARBITRARY=1
      - PMA_HOST=mysql
      - PMA_USER=root
      - PMA_PASSWORD=yourpassword      # 亂碼
      - UPLOAD_LIMIT=128M      # 亂碼
    depends_on:
      - mysql
```

Nginx ???(phpmyadmin) (?????????????????)

```
server {
  listen 80;
  server_name pma2025.yoursite.com.tw;
```


????

```
ls
```

██████████

```
ls -la
```

██████████████████

Linux████████████████

```
ls ~/
```

██████████

██████████

/home/ ; ██████████

/root/

```
mkdir test
```

████

```
mkdir -p test/a
```

██████████

```
cp a.php b.php
```

████

████████████████

copy nginx █████

cp /etc/nginx/sites-enabled/site1

/etc/nginx/sites-enabled/site2

```
cp -r ~/abc /var/www/
```

██████████

abc █████ /var/www/

/var/www/

/var/www/

tab

/var/www/

tab

rm xxx.txt

rm

rm -r xxx

rm

rm linux

linux

rm

GG rm -rf /

mv ~/abc /var/www/

mv

tar zcf abc.tar.gz abc

tar

abc abc.tar.gz

tar zxvf abc.tar.gz

tar

abc.tar.gz

unzip abc.zip

unzip

zip

cat /var/log/nginx/access.log

cat /var/log/nginx/access.log

log

cat /var/log/nginx/access.log | more

更多命令

| more更多命令

Ctrl + C

更多

```
cat /var/log/nginx/access.log | less
```

更多 more更多

```
zcat /var/log/nginx/access.log.10.gz
```

更多 log更多 zcat更多.gz更多

```
htop
```

更多 CPU更多

```
vi xxx.txt  
nano xxx.txt
```

更多 vi nano更多

```
ssh name@ip
```

更多 ssh更多

```
scp -r /var/www/ name@ip:/var/www/
```

更多 ssh更多

```
rsync -av --delete /var/www/wp/wp-content/uploads/ root@ip:/var/www/wp/zfun/wp-content/uploads/  
rsync -av --delete /var/www/wp/wp-content/plugins/ root@ip:/var/www/wp/zfun/wp-content/plugins/
```

更多 rsync更多

更多

更多 ssh-keygen -t rsa

cat .ssh/id_rsa.pub

更多 .ssh/authorized_keys 更多 cat更多

更多

```
crontab -e
```

```
████████████████████████████████
```

```
/etc/init.d/nginx reload
```

```
██████ nginx███████████████████ conf██████████ nginx -t ██████████
```

```
nginx: the configuration file /etc/nginx/nginx.conf syntax is ok
nginx: configuration file /etc/nginx/nginx.conf test is successful
```

```
███████████████████████████ reload
```

```
/etc/init.d/nginx restart
```

```
████████
```

```
████████████████████████████████ reload, restart, stop, start ██████████
Nginx: /etc/init.d/nginx
PHP: /etc/init.d/php7.4-fpm
MySQL: /etc/init.d/mysql
████████████████ cron██ restart████████████████
```

□ shell script□

```
████████████████████████████████ 2023 AI
████████████████████████████████
```

SSL

DNS Cloudflare SSL

SSL/TLS 证书
私钥
证书
cert.pem
key.pem
/etc/ssl/

```
listen 443 ssl;
include /etc/letsencrypt/options-ssl-nginx.conf;
ssl_dhparam /etc/letsencrypt/ssl-dhparams.pem;
ssl_certificate      /etc/ssl/cert.pem;
ssl_certificate_key  /etc/ssl/key.pem;
ssl_client_certificate /etc/ssl/cloudflare.crt;
ssl_verify_client on;
}
server {
    if ($host = site.com) {
        return 301 https://$host$request_uri;
    }
}

server_name site.com;
listen 80;
return 404;
```

conf server "}"

Nginx SSL

<https://www.digitalocean.com/community/tutorials/how-to-host-a-website-using-cloudflare-and-nginx-on-ubuntu-20-04>

Certbot

```
apt install certbot
```

certbot -d site.com

□□□

□□□□□ /etc/nginx/sites-enabled/ □ site.com □□□□□□□
/etc/nginx/nginx.conf

certbot delete --cert-name site.com

□□□□□ SSL

□□ Ubuntu 22.04

□□□□□□□□□□□□□□□□□□□□□□

cron□ certbot

renew

Cloudflare□□□ SSL□□□ A□□□ SSL/TLS □□□ □ TLS □ □ 1.2 □□□ A□□□
□ HTTP □□□ (HSTS)

□□□ SSL□□□□□□□□□

subdomain□ SSL□□□

Mac

□□□□□□□□□

subdomain

□□□□□□□□□□□□□□□□□□□□□□□□□

Cloudflare

□□□□□□□

Certbot

Docker

```
apt install docker docker-compose
```

Docker-compose 

https://hackmd.io/@jimmy801/docker_compose_install

??docker???

```
docker pull portainer/portainer-ce:latest
docker run -d -p 9000:9000 --restart always -v /var/run/docker.sock:/var/run/docker.sock
portainer/portainer-ce:latest
```

??web?????

```
server {
    server_name docker.site.com;

    location ~/ {
        # prevents 502 bad gateway error
        proxy_buffers 8 32k;
        proxy_buffer_size 64k;

        client_max_body_size 75M;

        # redirect all HTTP traffic to localhost:9000;
        proxy_pass http://localhost:9000;
        proxy_set_header X-Real-IP $remote_addr;
        proxy_set_header Host $http_host;
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;
        #proxy_set_header X-NginX-Proxy true;

        # enables WS support
        proxy_http_version 1.1;
        proxy_set_header Upgrade $http_upgrade;
        proxy_set_header Connection "upgrade";
    }
}
```

```
proxy_read_timeout 999999999;  
}
```

```
}
```

Docker Docker IP + port
VPS 9000 port Nginx Proxy Docker port

??WordPress

Wordpress

Wordpress

Stacks

```
version: '3.1'  
  
services:  
  
  wordpress:  
    image: wordpress:6.0.1-php7.4-apache  
    restart: always  
    ports:  
      - 8001:80  
    environment:  
      WORDPRESS_DB_HOST: db  
      WORDPRESS_DB_USER: exampleuser  
      WORDPRESS_DB_PASSWORD: examplepass  
      WORDPRESS_DB_NAME: exempledb  
    volumes:  
      - wordpress:/var/www/html  
  
  db:  
    image: mysql:5.7  
    restart: always  
    environment:  
      MYSQL_DATABASE: exempledb  
      MYSQL_USER: exampleuser  
      MYSQL_PASSWORD: examplepass  
      MYSQL_RANDOM_ROOT_PASSWORD: '1'
```

```
volumes:  
  - db:/var/lib/mysql
```

```
volumes:  
  wordpress:  
  db:
```

容器名 Nginx 容器

```
server {  
    server_name demo1.site.com;  
  
    location ~/ {  
        # prevents 502 bad gateway error  
        proxy_buffers 8 32k;  
        proxy_buffer_size 64k;  
  
        client_max_body_size 75M;  
  
        # redirect all HTTP traffic to localhost:8088;  
        proxy_pass http://localhost:8001;  
        proxy_set_header X-Real-IP $remote_addr;  
        proxy_set_header Host $http_host;  
        proxy_set_header X-Forwarded-For $proxy_add_x_forwarded_for;  
        #proxy_set_header X-NginX-Proxy true;  
  
        # enables WS support  
        proxy_http_version 1.1;  
        proxy_set_header Upgrade $http_upgrade;  
        proxy_set_header Connection "upgrade";  
  
        proxy_read_timeout 999999999;  
    }  
}
```

}

容器名

<https://demo1.site.com> 端口

Docker 容器名

```
docker exec -i -t 8001-wordpress-1 bash
```

□ WordPress□□

```
echo -e "file_uploads = On\nmemory_limit = 500M\nupload_max_filesize = 500M\npost_max_size = 500M\nmax_execution_time = 600" | tee -a /usr/local/etc/php/conf.d/uploads.ini;/etc/init.d/apache2 restart
```

□□□□□□

docker□□□

```
docker cp /4TB/conoha2/www/wp/zfun/wp-content/uploads demo38-wordpress-1:/var/www/html/wp-content/  
docker cp /4TB/conoha2/www/wp/site2/wp-content/themes demo38-wordpress-1:/var/www/html/wp-content/  
docker cp /4TB/conoha2/www/wp/site2/wp-content/uploads demo38-wordpress-1:/var/www/html/wp-content/
```

Docker□□□□

WordPress□□□□□□□□□□□□□□□□□□□□

□□□□□□□□

WordPress□□□□□□

Apache2□□□□□□

□ WordPress□□□□

Docker□□□□□□□□□□□□□□□□□□□□

XD

□□□□□□□□□□□□□□□□

WordPress□□□□□□□□

clamav

|||||

```
apt install clamav clamav-daemon
```

||||||||||

```
up_clamav.sh
```

```
service clamav-freshclam stop
```

```
freshclam
```

```
service clamav-freshclam start
```

|||||

|||||||

```
clamav_scan.sh
```

```
clamscan -r --bell -i /var/www/
```

SSH?????

???????????

```
ssh-keygen -t rsa
```

????

```
cat .ssh/id_rsa.pub
```

???? ?????

```
vi .ssh/authorized_keys
```

██████████

[ssh@ip](#) █████

████

GCP█████████████████████

ssh█

bash

?????mysql???

```
#!/bin/bash

BACKUP_DIR="/root/backup/db"

if [ ! -d "$BACKUP_DIR" ]; then
    mkdir -p $BACKUP_DIR
fi

# 去除 .gz 文件
rm -f $BACKUP_DIR/*.gz

DATABASES=$(mysql -u root -e "SHOW DATABASES;" | grep -Ev "(Database|information_schema|performance_schema|mysql)")

for DB in $DATABASES; do
    BACKUP_FILE="$BACKUP_DIR/${DB}_backup_$(date +'%Y%m%d').sql"

    MYSQLDUMP_CMD="mysqldump -u root $DB > $BACKUP_FILE"

    echo "开始备份 $DB..."
    eval $MYSQLDUMP_CMD

    if [ $? -eq 0 ]; then
        echo "备份 $DB 完成: $BACKUP_FILE"
        gzip $BACKUP_FILE
        echo "压缩完成: $BACKUP_FILE.gz"
        # 去除文件大小 MB
        FILE_SIZE=$(du -m "$BACKUP_FILE.gz" | cut -f1)
        echo "文件大小: $FILE_SIZE MB"
    else
        echo "备份 $DB 失败"
    fi
done
```

?????

```
#!/bin/bash
rsync -avz --delete --progress --exclude='cache/' --exclude='*demo*' root@ip:/etc/nginx/sites-enabled/ /4TB/conoha1/nginx/
```

??????????

```
#!/bin/bash

# 备份目录
SRC_DIR="/var/www/"
DEST_DIR="/root/gcp/www/"

# 备份文件
DIR_LIST=("web1" "web2" "web3")

# 压缩文件
for DIR_NAME in "${DIR_LIST[@]}"; do
    FILE_NAME="${DEST_DIR}${DIR_NAME}.tar.gz"
    tar zcf "$FILE_NAME" -C "$SRC_DIR" "$DIR_NAME"
    echo "备份 $DIR_NAME 为 $FILE_NAME 完成"
done

echo "所有网站备份完成"
```

VPS??

██████

VPS█████████████████████

XD

████████████████████████████

██████████

ssh█████████████████████

Ubuntu 22.04 VNC

Ubuntu 22.04

<https://jackfrisht.medium.com/ubuntu-20-04-vnc%E5%AE%89%E8%A3%9D-b8ce6e7dec4a>

Ubuntu 22.04 (lightdm)

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

Ubuntu 22.04 (gdm3) VNC (lightdm)

Ubuntu 16.04 (lightdm)

```
sudo apt install lightdm ## ubuntu 22.04
sudo dpkg-reconfigure lightdm ## 重新配置 lightdm
```

x11VNC

```
sudo apt-get install x11vnc -y
```

error

```
sudo apt-get update
```

VNC

```
sudo x11vnc -storepasswd /etc/x11vnc.pass
```

sudo chmod 755 /etc/x11vnc.pass

rfbport (5900) -forever

```
sudo x11vnc -auth guess -rfbauth /etc/x11vnc.pass -rfbport 5900 -forever -display :0
```

VNC

```
sudo gedit /etc/systemd/system/x11vnc.service[Unit]
Description=Start x11vnc at startup.
After=multi-user.target
```

```
[Service]
Type=simple
ExecStart=/usr/bin/x11vnc -auth guess -forever -loop -noxdamage -repeat -rfbauth /etc/x11vnc.password
[Install]
WantedBy=multi-user.target
```

启动 systemd 服务

```
sudo systemctl daemon-reload
sudo systemctl enable x11vnc
sudo systemctl start x11vnc
```

Step 2. ???????

安装 Nvidia 驱动

安装完成后

Server 安装完成 x-session 安装完成 xorg.conf 安装完成

ubuntu 安装完成 /etc/X11/xorg.conf 安装完成 Xorg -configure
完成 (完成) 1920x1080 完成 Virtual
完成)

turn to /etc/X11

```
cd /etc/X11
sudo gedit xorg.conf## VNC-virsual montior
Section "Device"
    Identifier "Configured Video Device"
EndSection
Section "Monitor"
    Identifier "Configured Monitor"
EndSection
Section "Screen"
    Identifier "Default Screen"
    Monitor "Configured Monitor"
    Device "Configured Video Device"
    SubSection "Display"
        Depth 24
        Virtual 1920 1080
    EndSubSection
EndSection
```

Restart System

```
sudo reboot
```

完成

```
systemctl status sleep.target  sleep.target - Sleep
```

|||||||

```
systemctl mask sleep.target suspend.target hibernate.target hybrid-sleep.target
```

|||||||||

```
systemctl status sleep.target
```

MySQL

htop □ mysqld □ 100%

```
mysql -u root
```

□□□□

```
SHOW FULL PROCESSLIST;
```

███████████████████

```
| 32892 | root | localhost | NULL | Query    |      0 | starting      | SHOW FULL PROCESSLIST
```

□□□

```
KILL 32892;
```

?? Fail2Ban ???????

```
vi /etc/fail2ban/jail.local
```

██████

```
[nginx-http-auth]
enabled = true
filter = nginx-http-auth
action = iptables[name=HTTP, port=http, protocol=tcp]
logpath = /var/log/nginx/error.log
bantime = 3600
findtime = 600
maxretry = 5
```

████████

```
systemctl restart fail2ban
```

██████████

IP

```
fail2ban-client status
```

██████

```
[nginx-primary-script]
enabled = true
filter = nginx-primary-script
action = iptables[name=PrimaryScript, port=http, protocol=tcp]
logpath = /var/log/nginx/error.log
maxretry = 3
bantime = 3600
```

████████

```
[Definition]
```

```
failregex = .*FastCGI sent in stderr: "Primary script unknown".*request: \".*installer\\.php.*"
          .*FastCGI sent in stderr: "Primary script unknown".*request:
          \".*WordPress/installer\\.php.*"
```

```
.*FastCGI sent in stderr: "Primary script unknown".*request: \".*phpinfo\.php.*  
.*FastCGI sent in stderr: "Primary script unknown".*request: \".*info\.php.*  
  
# 木暮木暮木暮  
.*GET /wp-admin.*                                # WordPress 木暮木暮  
.*GET /wp-login\.php.*                            # WordPress 木暮  
.*GET /xmlrpc\.php.*                            # WordPress XML-RPC 木  
.*GET /phpMyAdmin/.*                            # phpMyAdmin 木  
.*GET /pma/.*                                    # phpMyAdmin 木暮  
.*GET /myadmin/.*                                # 木暮木暮木暮  
.*GET /config\.php.*                            # 木暮木暮木暮  
.*GET /setup\.php.*                            # 木暮  
.*GET /install\.php.*                            # 木暮  
.*GET /adminer.*                                # Adminer 木  
  
# 木暮木暮木暮  
.*GET /shell\.php.*                            # 木暮  
.*GET /cmd\.php.*                                # 木暮木暮  
.*GET /console\.php.*                            # 木暮木暮  
.*GET /backdoor\.php.*                            # 木暮木暮  
.*GET /wp-content/uploads/shell.*                # WordPress 木暮  
.*GET /eval-stdin.*                            # eval 木暮  
  
# 木暮木暮  
.*GET /\.env.*                                    # Laravel 木暮木暮木暮  
.*GET /\.git/config.*                            # Git 木暮  
.*GET /backup.*                                    # 木暮木暮  
.*GET /dump.*                                    # 木暮木暮木暮  
.*GET /debug.*                                    # 木暮  
.*GET /error_log.*                            # 木暮  
  
# 木暮木暮  
.*GET /HNAP1/.*                                    # HNAP 木暮 (木暮木暮)  
.*GET /boaform/admin/formLogin.*                # IOT 木暮  
.*GET /invoker/JMXInvokerServlet.*              # JBoss 木  
.*GET /webdav.*                                    # WebDAV 木  
.*GET /manager/html.*                            # Tomcat 木暮木暮
```

```
fail2ban-client set nginx-primary-script banip xxx.xxx.xxx.xxx
```

██████████

```
fail2ban-client set nginx-primary-script unbanip 192.168.1.100
```

████ █ /etc/fail2ban/jail.local

```
[DEFAULT]
ignoreip = 127.0.0.1/8 ::1 192.168.1.100
```

██████████████████

```
systemctl restart fail2ban
```

????htop Glances

████

```
pip install glances fastapi[all] uvicorn
```

□ glances -w □

□ which glances □ /usr/local/bin/glances□□ Glances □□□□□ /usr/local/bin
█████████████████████

□□□ /usr/local/bin████████████████

```
export PATH=$PATH:/usr/local/bin
```

████████ .bashrc □ .zshrc □□□

```
echo 'export PATH=$PATH:/usr/local/bin' >> ~/.bashrc  
source ~/.bashrc
```

?? Monit ????

□

```
apt install monit
```

□

```
cp /etc/monit/monitrc /etc/monit/monitrc.bak
```

```
vi /etc/monit/monitrc
```

```
set httpd port 2812
  use address 0.0.0.0  # 本地IP
  allow localhost      # 允许本地主机访问
  allow yourip         # 允许指定IP访问
  allow admin:monit

# NGINX
check process nginx with pidfile /var/run/nginx.pid
  start program = "/bin/systemctl start nginx"
  stop program  = "/bin/systemctl stop nginx"
  if failed port 443 then restart
  if 5 restarts within 5 cycles then timeout

# PHP 7.4-FPM
check process php7.4-fpm with pidfile /run/php/php7.4-fpm.pid
  start program = "/etc/init.d/php7.4-fpm start"
  stop program = "/etc/init.d/php7.4-fpm stop"
  if failed unixsocket /var/run/php/php7.4-fpm.sock then restart
  if 5 restarts within 5 cycles then timeout

# MySQL
check process mysql with pidfile /var/lib/mysql/zfun-server.pid
  start program = "/etc/init.d/mysql start"
  stop program = "/etc/init.d/mysql stop"
  if failed host localhost port 3306 protocol mysql then restart
  if 5 restarts within 5 cycles then timeout
```

<http://yourip:2812> 亂七八糟

亂七八糟

vi /etc/monit/monitrc

```
set mailserver smtp.your-email-provider.com port 587
username "your-email@example.com" password "your-password"
using tlsv1
with timeout 30 seconds

set alert your-email@example.com
```

亂七八糟

??log

2024-11-20 20:00:00

2024-11-20 20:00:00

```
grep '20/Nov/2024:14:' /var/log/nginx/access.log | grep 'https://yoursite.com' | awk '{print $1}' | sort | uniq | wc -l
zgrep '20/Nov/2024:14:' /var/log/nginx/access.log.2.gz | grep 'https://yoursite.com' | awk
'{print $1}' | sort | uniq | wc -l
```

pm2??

□□□□□□□

pm2

□□□□□□□□□□□□□

1. ??????????

(1) ??????

□□□□□□□□□□□

```
tar -czf projects_backup.tar.gz /path/to/your/project1 /path/to/your/project2
```

(2) ?? pm2 ??

□ pm2 □□□□□□

pm2 save

□□□□□□□

~/.pm2/dump.pm2 □□□□□□

```
tar -czf pm2_backup.tar.gz ~/.pm2
```

(3) ?????? (??)

- □□□□□□□ Node.js□□□□□□
node -v
 - □□□□□ .env □□□□□□□□
-

2. ????????

(1) ?? Node.js ? npm

□□□□□□□ Node.js□□□□□□□□□□□□□

```
curl -fsSL https://deb.nodesource.com/setup_18.x | sudo -E bash -  
sudo apt install -y nodejs
```

(□□□□□□□□□□□□□)

(2) ?? pm2

□ pm2 □

```
sudo npm install -g pm2
```

3. ????

(1) ??????

████████████████████████

```
scp projects_backup.tar.gz user@new-server:/path/to/  
ssh user@new-server  
tar -xzf projects_backup.tar.gz -C /desired/path/
```

(2) ?? pm2 ??

□ pm2_backup.tar.gz ██████████

```
scp pm2_backup.tar.gz user@new-server:/path/to/  
ssh user@new-server  
tar -xzf pm2_backup.tar.gz -C ~/
```

██████████

pm2 resurrect

4. ??????

(1) ??????

████████████████████████

pm2 list

████████████████████████

pm2 logs

(2) ??????

□ pm2 ██████████

```
pm2 startup  
pm2 save
```

5. ?? DNS ????????

████████████

DNS █████████████████

IP□

████████████████████████████████

pm2 █████