Ubuntu Linux

- □□□□ □□□
- □□□□ □□□ 2025 (Ubuntu24.04□□ □)
- □□□□ □□□
- SSL
- Docker
- clamav
- SSH□□□□□ □□□
- bash
- VPS□□ □
- Ubuntu 22.04 VNC
- MySQL
- □□ □ Fail2Ban □□□□□□□ □□□□
- □□□□ □□□ htop Glances
- □□ □ Monit □□□□ □□□
- □□ □ log
- Ubuntu 24.04□□□□ □□□
- pm2□□ □
- □ Windows 11□□ □ WLS
- □□ Redis □□□□□□□ □□□□
- □ Docker□□□□□□□ □□□□ Wordpress□□ □

□□□□

□□□ 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
reboot
```

□□□□□□□□□□ root □□

```
sudo su
```

□□□□□

```
apt install nginx php-fpm php-zip 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 (□□□□□□□ 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
```

[illegible]

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

> Drupal[illegible] WordPress[illegible] php[illegible]

> [illegible] apt-install php[illegible] apache2

[illegible] MySQL

[illegible] mysql[illegible]

[illegible] root[illegible] mysql

```
mysql -u root
```

[illegible]

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

> yourpassword [illegible]

> [illegible] root[illegible]

[illegible] conf[illegible]

```
[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 (□□□□□□□ 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    # □□□□□□□□□
      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    # □□□□□□
      - UPLOAD_LIMIT=128M    # □□□□□□
    depends_on:
      - mysql
```

Nginx □□□ (phpmyadmin) (□□□□□□□□□□□□□□□□)

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

```
    client_max_body_size 128M;  # <<< □□□□□□□□□□□□□□□

    location / {
        proxy_pass http://127.0.0.1:48081;
        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;
    }
}
```

Drupal 6 □□ port

```
$db_url = 'mysqli://root:yourpassword@127.0.0.1:43306/haccp';
$db_prefix = 'haccp_';
```

[illegible]

```
ls
```

[illegible]

```
ls -la
```

[illegible]

> Linux[illegible] .

```
ls ~/
```

[illegible]

> [illegible] /home/ ; [illegible] /root/

```
mkdir test
```

[illegible]

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

[illegible]

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

[illegible]

> [illegible] copy nginx [illegible] cp /etc/nginx/sites-enabled/site1 /etc/nginx/sites-enabled/site2

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

[illegible] abc [illegible] /var/www/

□□□□□□□□□□□□□ tab□□□□□□□□□□□□□□□□□□□ /var/w □□□ tab □□□□□□□ /var/www/

```
rm xxx.txt
```

□□□□□

```
rm -r xxx
```

□□□□□

> □□□ linux□□□□□□□□□□□□□□□□□□□ linux□□□□□□□□□□□□□□□□

> □□□□□□□□□□□□□□□□□□□□□ GG□ rm -rf /

```
mv ~/abc /var/www/
```

□□□□□□□□□□□□□

```
tar zcf abc.tar.gz abc
```

□□□□□□□□□ abc□□□ abc.tar.gz

```
tar zxvf abc.tar.gz
```

□□□□□□□□ abc.tar.gz □□

```
unzip abc.zip
```

□□□□□□ zip□□□□□□□

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

□□□□□□□□□□□□□□□□□□□□□□□□□□□□ log□

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

□□□□□□□□□□□□□□□□ | more□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□ Ctrl + C □□□□□

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

□□□ more□□□□□□□□□□

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

□□□ log□□□□□□□□□□ zcat□□□□□□□ .gz□□□

```
htop
```

□□□□□□□□ CPU□□□□□□□□□□□

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

□□□□□□□□□□ vi□ nano□□□□

```
ssh name@ip
```

□□ ssh□□□□□

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

□□ ssh□□□□□□□□□

```
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/
```

□□ rsync□□□□

> □□□□□□□□□□□□□□□□
> □□□□□□ ssh-keygen -t rsa
> cat .ssh/id_rsa.pub
> □□□□□□□ .ssh/authorized_keys □□ cat□□□□□□
> □□□□□□□□□□□□□□□□□□

```
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□□□□□□ Cloudflare□□ SSL

SSL/TLS □□□□ □□ □□□□
□□□ □□□□□□□ □□□□ □ 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 instll certbot
```

□□

```
certbot -d site.com
```

[illegible]

> [illegible] /etc/nginx/sites-enabled/ [illegible] site.com [illegible]
> /etc/nginx/nginx.conf

```
certbot delete --cert-name site.com
```

[illegible] SSL

> [illegible] Ubuntu 22.04
> [illegible] cron[illegible] certbot renew

Cloudflare[illegible] SSL[illegible] A[illegible] SSL/TLS [illegible] **TLS** [illegible] **1.2** [illegible] A[illegible] **HTTP** [illegible] **(HSTS)**

> [illegible] SSL[illegible] subdomain[illegible] SSL[illegible] Mac
> [illegible] subdomain
> [illegible] Cloudflare
> [illegible] 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□□□□□□□□□□ 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: exampledb
    volumes:
      - wordpress:/var/www/html

  db:
    image: mysql:5.7
    restart: always
    environment:
      MYSQL_DATABASE: exampledb
      MYSQL_USER: exampleuser
      MYSQL_PASSWORD: examplepass
      MYSQL_RANDOM_ROOT_PASSWORD: '1'
```

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

volumes:
  wordpress:
  db:
```

□□□□□□□□ Nginx□□□

```
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;
}



}
```

□□□□□□□ https://demo1.site.com □□□□□ Docker□□□□□□□

```
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

# □□□□□□ .gz □□
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 "□□□□□□□ $DB..."
    eval $MYSQLDUMP_CMD

    if [ $? -eq 0 ]; then
        echo "□□□ $DB □□□□ : $BACKUP_FILE"
        gzip $BACKUP_FILE
        echo "□□□□□□ : $BACKUP_FILE.gz"
        # □□□□□□□□□ MB
        FILE_SIZE=$(du -m "$BACKUP_FILE.gz" | cut -f1)
        echo "□□□□□□□ : $FILE_SIZE MB"
    else
        echo "□□□ $DB □□□□ "
    fi
```

```
done
```

□□□□

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

□□□□□□□□

```
#!/bin/bash

# □□□□□□□□□□□□
SRC_DIR="/var/www/"
DEST_DIR="/root/gcp/www/"

# □□□□
DIR_LIST=("web1" "web2" "web3")

# □□□□□□□□□
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 "□□□□       $DIR_NAME □  $FILE_NAME □□   "
done

echo "□□□□□□□□□              "
```

VPS□□

□□□□□ VPS□□□□□□□□□□□□□□□□□□□□ XD

□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

□□□□□□□□□□ ssh□□□□□□□□□□□□□□□□□□□□□□□□

Ubuntu 22.04 VNC

□□□□□□

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

□□□□□ (□□)

```
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    ## □□□□□□        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` □□□□□□□□□ `-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.pass -rfbport 5900
[Install]
WantedBy=multi-user.target
```

□□□ systemd □□□□□

```
sudo systemctl daemon-reload

sudo systemctl enable x11vnc

sudo systemctl start x11vnc
```

Step 2. □□□□□□

□□□□□□ Nvidia driver
□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□□

Server □□□□□□□□□□□□ x-session □□□□□□□□□□□□□□□ xorg.conf □□□□□□□□□

ubuntu □□□□□□ /etc/X11/xorg.conf□□□□□□□ Xorg -configure
□□□□□□□□□□□□□□□□□□□ (□□□□□□□□□ 1920x1080□□□□□□□□□□ Virtual
□□)

turn to /etc/X11

```
cd /etc/X11sudo gedit xorg.conf## VNC-virsual montior
Section "Device"
        Identifier "Configured Video Device"
EndSectionSection "Monitor"
        Identifier "Configured Monitor"
EndSectionSection "Screen"
        Identifier "Default Screen"
        Monitor "Configured Monitor"
        Device "Configured Video Device"
        SubSection "Display"
                Depth 24
                Virtual 1920 1080
        EndSubSection
EndSection
```

Restart System

```
sudo reboot
```

□□□□□□□□

```
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.*

# □□□□□□□□□
        .*GET /wp-admin.*                  # WordPress □□□□□□
        .*GET /wp-login\.php.*             # WordPress □□□□
        .*GET /xmlrpc\.php.*               # WordPress XML-RPC □□
        .*GET /phpMyAdmin/.*               # phpMyAdmin □□
        .*GET /pma/.*                      # phpMyAdmin □□□□
        .*GET /myadmin/.*                  # □□□□□□□□
        .*GET /config\.php.*               # □□□□□□□□
        .*GET /setup\.php.*                # □□□□
        .*GET /install\.php.*              # □□□□
        .*GET /adminer.*                   # Adminer □□

# □□□□□□□□
        .*GET /shell\.php.*                # □□□□
        .*GET /cmd\.php.*                  # □□□□□□
        .*GET /console\.php.*              # □□□□□□
        .*GET /backdoor\.php.*             # □□□□□□
        .*GET /wp-content/uploads/shell.*  # WordPress □□□□
        .*GET /eval-stdin.*                # eval □□□□

# □□□□□□
        .*GET /\.env.*                     # Laravel □□□□□□□□□
        .*GET /\.git/config.*              # Git □□□□
        .*GET /backup.*                    # □□□□□□
        .*GET /dump.*                      # □□□□□□□□□
        .*GET /debug.*                     # □□□□
        .*GET /error_log.*                 # □□□□

# □□□□□□
        .*GET /HNAP1/.*                    # HNAP □□□□    (□□□□□□    )
        .*GET /boaform/admin/formLogin.*   # IOT □□□□
        .*GET /invoker/JMXInvokerServlet.* # JBoss □□
        .*GET /webdav.*                    # WebDAV □□
        .*GET /manager/html.*              # Tomcat □□□□□□
```

□□□□□ IP

```
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  # □□□□□□
    allow localhost      # □□   localhost □□
    allow yourip         # □□   □□  IP □□
    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 [illegible]

[illegible] 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
```

> [illegible]

□□ log

□□□□□□□□□□□□□□ 2024□ 11□ 20□□□ 2□

```
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
```

Ubuntu 24.04□□□

Opcache

/etc/php/8.3/fpm/conf.d/10-opcache.ini

```
; configuration for php opcache module
; priority=10
zend_extension=opcache.so
opcache.jit=off

; □□□□□□□□□
opcache.enable=1
opcache.enable_cli=0
opcache.memory_consumption=192
opcache.interned_strings_buffer=16
opcache.max_accelerated_files=10000
opcache.validate_timestamps=0
opcache.revalidate_freq=60
opcache.fast_shutdown=1
opcache.save_comments=1
opcache.enable_file_override=0
opcache.file_update_protection=2  ;□□
```

/etc/php/7.4/fpm/conf.d/10-opcache.ini

```
; configuration for php opcache module
; priority=10
zend_extension=opcache.so

; □□□□□□
opcache.enable=1
opcache.enable_cli=0
opcache.memory_consumption=128
opcache.interned_strings_buffer=8
opcache.max_accelerated_files=10000
opcache.validate_timestamps=0
```

```
opcache.revalidate_freq=60
opcache.fast_shutdown=1
opcache.save_comments=1
opcache.enable_file_override=0
```

□□□□□□□□□□ PHP □□□ opcache.validate_timestamps=0

APcu

/etc/php/8.3/cli/conf.d/20-apcu.ini

```
extension=apcu.so
# chatgpt add
apc.enabled=1
apc.shm_size=64M
apc.ttl=3600
apc.user_ttl=7200
apc.gc_ttl=3600
apc.entries_hint=4096
apc.smart=1
apc.enable_cli=0
```

/etc/php/7.4/cli/conf.d/20-apcu.ini

```
extension=apcu.so
# chatgpt add
apc.enabled=1
apc.shm_size=64M
apc.ttl=3600
apc.user_ttl=7200
apc.gc_ttl=3600
apc.entries_hint=4096
apc.smart=1
apc.enable_cli=0
```

Nginx

/etc/nginx/nginx.conf

```
user www-data;
worker_processes auto;
worker_rlimit_nofile 100000;

events {
    worker_connections 10240;
    multi_accept on;
    use epoll;
}

gzip on;
gzip_vary on;
gzip_proxied any;
gzip_comp_level 6;
gzip_types text/plain text/css application/json application/javascript text/xml application/xml application/xml+rss
text/javascript;
```

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 □□□□□

□ Windows 11□□ WLS

□□ WLS

□□ PowerShell□□□□□□□□□□

```
wsl --install -d Ubuntu-24.04
```

※ wsl□□□□□□□□□□□□□□□□ Ubuntu-24.04□□□□□□□□□□□□□□□□□□□□□□ home □□□□ vt□□□□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□□□□□□□ windows□□□□□□□□□

□□□□□□□□□ Ubuntu Linux□□□□□□□□□□□□□□□□□□□

□□ port

□□ UbuntuLinux□□□□□ IP□□□□ net (□□□□□□)

□□□□ Ubuntu □□ nginx port □ 80□□□□□□□□□ IP 172.26.94.32□□□□□ Nginx□□□

□□□□□□□□□□□□□□

□□ PowerShell□□□□□□□□□□

```
netsh interface portproxy add v4tov4 listenport=81 listenaddress=0.0.0.0 connectport=80
connectaddress=172.26.94.32
```

□□□□□□

```
netsh interface portproxy show all
```

□□

```
netsh interface portproxy delete v4tov4 listenport=81 listenaddress=0.0.0.0
```

□□ 81 PORT □□□

```
netsh advfirewall firewall add rule name="WSL2 Port 81" dir=in action=allow protocol=TCP localport=81
```

□□□□□□

```
netsh advfirewall firewall show rule name="Allow WSL2 Port 81"
```

□□ WLS

□□ PowerShell□□□□□□□□□□

□□

```
wsl -l -v
```

```
  NAME              STATE           VERSION
* Ubuntu-24.04      Running         2
  docker-desktop    Running         2
```

□□

```
wsl --unregister Ubuntu-24.04
```

□□

□□□□ WSL2 IP □ PowerShell □□

```
# ================================
# WSL2 PortProxy □□□□□□
# ================================

# □□□□□□ (Windows listen port) □□□□□ (WSL2 connect port)
$ListenPort  = 81
$ConnectPort = 80

# □□ WSL2 □□ IP
$wsl_ip = wsl hostname -I | ForEach-Object { $_.Trim() } | Select-Object -First 1

if (-not $wsl_ip) {
    Write-Host "□ □□□□ WSL2 IP□□□□ WSL2 □□□□ " -ForegroundColor Red
    exit
}

Write-Host "□ □□□ WSL2 IP: $wsl_ip" -ForegroundColor Green
```

```
# □□□□□□□□□□□□
netsh interface portproxy delete v4tov4 listenport=$ListenPort listenaddress=0.0.0.0 > $null 2>&1

# □□□□        PortProxy □□
netsh interface portproxy add v4tov4 listenport=$ListenPort listenaddress=0.0.0.0 connectport=$ConnectPort
connectaddress=$wsl_ip

# □□□□□□□□□               Port
netsh advfirewall firewall add rule name="WSL2 Port $ListenPort" dir=in action=allow protocol=TCP
localport=$ListenPort > $null 2>&1

Write-Host "□  PortProxy □□□     : 0.0.0.0:$ListenPort → $wsl_ip:$ConnectPort" -ForegroundColor Cyan
```

□□

```
powershell -ExecutionPolicy Bypass -File C:\Users\□□□□       \update-wsl-port.ps1
```

□□□□□□

□□   □□□□□   (taskschd.msc)

□□□□□□□   → □□□□□□□□□□□□

□□□□□□□□□□□□□□□□□□

```
powershell
```

□□□□□

```
-ExecutionPolicy Bypass -File C:\Users\□□□□       \update-wsl-port.ps1
```

□ □□□□□□□□□   WSL2 IP □□□□□□□□□□□□□□   http://192.168.0.168:81/ □□□

□□ Redis □□□□□□□

1. □□　Redis □□□□□□

`redis-cli info memory`

□□□□

- `used_memory_human` → Redis □□□□□
- `maxmemory` → □□
- `mem_fragmentation_ratio` → □□□□□□

---

2. □□□□□

`redis-cli dbsize`

□□　key □□□　Drupal □□□□□□□□□□□□□□□□

---

3. □□□　　key

`redis-cli --bigkeys`

□□　key type □□□□□　　key□□□□□□□□□□□□□□□　　cache□
□□□□□

`Biggest string found 'cache:default:tags' has 200 MB`

□□□　cache tag key □□□

---

4. □□　key □□□□□

□□□　Redis 4.0+□

`redis-cli memory usage <key>`

□□□

```
redis-cli memory usage cache:default:tags
```

□□□ bytes□□□□□□ key □□□

---

5. □□□ key

```
redis-cli scan 0 match "cache:*" count 20
```

□□□□□□ Drupal □□ key □□□

---

6. □□□ key □□□□□□

```
redis-cli --raw keys "*" | \
xargs -L1 redis-cli memory usage | \
sort -n | tail -20
```

□□□ □□ **20 □ key** □□□□□

---

7. □□□

- □□□ Redis□

  ```
  redis-cli flushall
  ```
- □ Drupal Cache□

  ```
  drush cr
  ```

□□ □□□□□

1. `redis-cli info memory` → □□□□
2. `redis-cli dbsize` → □□ key □□
3. `redis-cli --bigkeys` → □□□ key
4. `redis-cli memory usage <key>` → □□□□□□□
5. □□□ cache tag □ session □□ → □□□ Drupal □ Redis □□□□ `maxmemory` □□

□ Docker□□□□□□ Wordpress□□

□□□□□ Docker → WordPress □□□□

1. □□ Docker □□

- □□ **docker-compose.yml**□□□□□
  - **nginx**□□□ Web server□□□□□□□□□□□□□□□ Proxy□
  - **php (php-fpm)**□□□ WordPress/PHP
  - **mariadb**□□□□□□□ WordPress □□
  - **redis**□ Object Cache□□□□□□□
  - **wp-cli**□□□□□□□□
  - **cron**□□ WordPress □□□ wp-cron□
- □□□
  - Nginx □□□□□□□□□□□□□□□□
  - PHP FPM□ memory_limit□ pm.max_children □□□□□ 4C/4G RAM □□□
  - MariaDB □ volume □□□□□ utf8mb4 □□□
  - Redis □□□ volume□□□□□

---

2. □□□ Proxy (Ubuntu Nginx)

- □□ **Nginx** □□□□ → `127.0.0.1:8080` □□□□ nginx□□
- □□ **SSL (Let’s Encrypt Certbot)**□□□□□□ `server_name mysite.com;` □
- □□ **502** □□ □□□□□□ nginx □□□□□ port □□ 127.0.0.1:8080□
- □□ proxy header□□ WordPress □□□□ HTTPS□□□ CSS/JS □□□□□□□

```
proxy_set_header X-Forwarded-Proto https;
proxy_set_header X-Forwarded-Port  443;
```

3. WordPress □□

- □□ **wp-cli** □□ WordPress □□□

```
docker compose exec wp-cli wp core download --allow-root
```

- □□ `wp-config.php` □□□□□□
  - DB □□□ `wp`
  - □□□ `wpuser`
  - □□□ `change_me`
  - Host□ `db:3306` ← □□ Docker □□□□□□□□ localhost
- □□□□□□□□□□□□□□□□□□□□□□□□□□□

---

4. □□□□□

- **Nginx**□
  - □□ `fastcgi_cache_path` □□□□□□□ http □□□□□ server□□
  - □□□□□□ → □□□□□□□□□□□□□□
- **cron**□
  - □□ Restarting → □□ `cron/wp-cron.sh` □□□□□□□□□□
- **wp-config.php**□
  - □□ Redis □□□□□ `define('WP_REDIS_HOST', redis );` → `define('WP_REDIS_HOST', 'redis');`□
  - □□ HTTPS □□□□□□□□□□□□□□

```
if (isset($_SERVER['HTTP_X_FORWARDED_PROTO']) && $_SERVER['HTTP_X_FORWARDED_PROTO'] === 'https') {
   $_SERVER['HTTPS'] = 'on';
}
```

5. Redis □□

- □□ Redis □□□□□ `docker compose exec redis redis-cli ping → PONG`□
- □ `wp-config.php` □□□□□

```
define( 'WP_REDIS_HOST', 'redis' );
define( 'WP_REDIS_PORT', 6379 );
define( 'WP_REDIS_DATABASE', 1 );
```

- □□ PHP □ opcache □□□ `docker compose restart php`□
- □□ `wp-cli` □□ Redis drop-in□□□□□□

```
docker compose exec wp-cli wp redis enable --allow-root
docker compose exec wp-cli wp redis status --allow-root
```

---

6. WordPress □□□□□

- □□□□□□□□□□□□ CSS/JS□□□ 502□□□□□□□□
- □□□□□□□□□□□□□□
- Redis Object Cache □□□□□□□□□ `redis:6379` □
- □□ Proxy + □□ Nginx + PHP-FPM + DB □□□□□□□

□□ □□□□□□

```
wordpress-perf/
├── docker-compose.yml
├── .env
├── nginx/
│   └── conf.d/
│       ├── wordpress.conf
│       └── 00-cache.conf
├── cron/
│   └── wp-cron.sh
└── README.md
```

⚙ □□□

1. `.env`

```
HTTP_PORT=8080


DB_NAME=wp
```

```
DB_USER=wpuser
DB_PASSWORD=change_me
DB_ROOT_PASSWORD=change_root

# PHP □□□  /□□□□□□  4C/4G RAM□
PHP_MEMORY_LIMIT=256M
PHP_MAX_CHILDREN=10
PHP_MAX_REQUESTS=400
```

---

2. docker-compose.yml

```
services:
  nginx:
    image: nginx:1.25-alpine
    restart: always
    ports:
      - "127.0.0.1:${HTTP_PORT:-8080}:80"
    volumes:
      - ./nginx/conf.d:/etc/nginx/conf.d:ro
      - wp_data:/var/www/html:ro
      - cache_data:/var/cache/nginx
    depends_on:
      - php

  php:
    build:
      context: .
      dockerfile_inline: |
        FROM wordpress:php8.3-fpm-alpine
        RUN docker-php-ext-install mysqli pdo pdo_mysql
        COPY --from=mlocati/php-extension-installer /usr/bin/install-php-extensions /usr/local/bin/
    restart: always
    environment:
      WORDPRESS_DB_NAME: ${DB_NAME}
      WORDPRESS_DB_USER: ${DB_USER}
      WORDPRESS_DB_PASSWORD: ${DB_PASSWORD}
      WORDPRESS_DB_HOST: db:3306
```

```
      PHP_MEMORY_LIMIT: ${PHP_MEMORY_LIMIT}
    volumes:
      - wp_data:/var/www/html

  db:
    image: mariadb:10.11
    restart: always
    environment:
      MYSQL_DATABASE: ${DB_NAME}
      MYSQL_USER: ${DB_USER}
      MYSQL_PASSWORD: ${DB_PASSWORD}
      MYSQL_ROOT_PASSWORD: ${DB_ROOT_PASSWORD}
    volumes:
      - db_data:/var/lib/mysql

  redis:
    image: redis:7-alpine
    restart: always
    volumes:
      - redis_data:/data

  wp-cli:
    image: wordpress:cli-php8.3
    depends_on:
      - php
      - db
    volumes:
      - wp_data:/var/www/html
    entrypoint: wp

  cron:
    image: wordpress:cli-php8.3
    depends_on:
      - php
    volumes:
      - wp_data:/var/www/html
      - ./cron:/cron
    entrypoint: /cron/wp-cron.sh

volumes:
```

```
  wp_data:
  db_data:
  redis_data:
  cache_data:
```

4. nginx/conf.d/wordpress.conf

```
server {
  listen 80 default_server;
  server_name _;
  root /var/www/html;
  index index.php index.html;

  # □□□□□□
  set $skip_cache 0;
  if ($request_method = POST) { set $skip_cache 1; }
  if ($query_string != "")   { set $skip_cache 1; }
  if ($http_cookie ~*
"wordpress_logged_in_|woocommerce_items_in_cart|woocommerce_cart_hash|wp_woocommerce_session_") {
set $skip_cache 1; }
  if ($request_uri ~* "^/(wp-admin/|wp-login\.php|cart|checkout|my-account|wc-api/|wp-json/)") { set
$skip_cache 1; }
  if ($request_uri ~* "add-to-cart=") { set $skip_cache 1; }
  if ($request_uri ~* "admin-ajax\.php") { set $skip_cache 1; }

  location / {
    try_files $uri $uri/ /index.php?$args;
  }

  location ~ \.php$ {
    include fastcgi_params;
    fastcgi_param SCRIPT_FILENAME $document_root$fastcgi_script_name;
    fastcgi_pass php:9000;

    fastcgi_buffers 16 32k;
    fastcgi_buffer_size 32k;
    fastcgi_read_timeout 120s;

    fastcgi_cache_bypass $skip_cache;
```

```
    fastcgi_no_cache $skip_cache;
    fastcgi_cache PHP_MICRO;
    fastcgi_cache_valid 200 301 302 5s;

    add_header X-Cache $upstream_cache_status;
    fastcgi_param HTTPS on;
    fastcgi_param SERVER_PORT 443;
    fastcgi_param HTTP_X_FORWARDED_PROTO https;
  }

  location ~* \.(?:css|js|jpg|jpeg|gif|png|svg|webp|ico|ttf|otf|woff|woff2)$ {
    expires 30d;
    access_log off;
  }

  client_max_body_size 64m;
}
```

---

5. cron/wp-cron.sh

```
#!/bin/sh
set -e
# □  1 □□□□□         wp-cron
while true; do
  wp --path=/var/www/html --allow-root cron event run --due-now >/dev/null 2>&1 || true
  sleep 60
done
```

---

6. README.md□□□□□

```
# WordPress on Docker (WooCommerce Ready)

## Services
- Nginx 1.25 (reverse proxy inside container)
- PHP-FPM 8.3 (with mysqli, pdo_mysql)
```

- MariaDB 10.11
- Redis 7 (object cache)
- WP-CLI
- Cron container for wp-cron

Usage
```bash
docker compose up -d
```

WordPress setup

```
docker compose exec wp-cli wp core download --allow-root
docker compose exec wp-cli wp config create \
  --dbname=$DB_NAME --dbuser=$DB_USER --dbpass=$DB_PASSWORD \
  --dbhost=db:3306 --skip-check --allow-root
docker compose exec wp-cli wp core install \
  --url="https://mysite.com" \
  --title="MySite Shop" \
  --admin_user="admin" \
  --admin_password="ChangeMe123!" \
  --admin_email="you@example.com" \
  --allow-root
```

Redis setup

```
docker compose exec wp-cli wp config set WP_REDIS_HOST 'redis' --allow-root
docker compose exec wp-cli wp config set WP_REDIS_PORT 6379 --raw --allow-root
docker compose exec wp-cli wp config set WP_REDIS_DATABASE 1 --raw --allow-root
docker compose restart php
docker compose exec wp-cli wp redis enable --allow-root
```

Proxy setup (Host machine)

Nginx reverse proxy:

```
server {
    listen 443 ssl http2;
```

```
    server_name mysite.com;

    ssl_certificate     /etc/letsencrypt/live/mysite.com/fullchain.pem;
    ssl_certificate_key /etc/letsencrypt/live/mysite.com/privkey.pem;

    location / {
        proxy_pass http://127.0.0.1:8080;
        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 https;
    }
}
```

Result

- WordPress □□□□ (`https://mysite.com`)
- Redis Object Cache □□
- Nginx + PHP-FPM + MariaDB + Redis □□□□