ssh root@DIGITAL\_OCEAN\_IPAddress

## ✅ 1. Prepare Your Laravel Project

### Comment out the build folder in .gitignore

# Comment this line to include build in version control and run build

#/public/build

## ✅ 2. Setup SSH for GitHub Access

ssh-keygen -t rsa -b 4096 -C "droplet@domain.online"

cat ~/.ssh/id\_rsa.pub # Copy and add this key to your GitHub account

ssh -T git@github.com # Test SSH connection

## ✅ 3. Clone Your Laravel Repo

mkdir -p /var/www

cd /var/www

git clone git@github.com:your-username/your-laravel-repo.git laravel

cd laravel

git config --global --add safe.directory /var/www/laravel

git pull origin main

## ✅ 4. Update & Install System Dependencies

apt update && apt upgrade -y

apt install -y php php-cli php-mbstring php-xml php-bcmath php-curl php-mysql \

php-zip php-gd php-common php-fpm php-tokenizer php-json php-readline unzip \

curl git nginx mysql-server

## ✅ 5. Create Swap File (Optional but recommended)

fallocate -l 2G /swapfile

chmod 600 /swapfile

mkswap /swapfile

swapon /swapfile

echo '/swapfile none swap sw 0 0' | tee -a /etc/fstab

free -h # Confirm swap enabled

## ✅ 6. Configure MySQL

systemctl restart mysql

mysql -u root -p

Inside MySQL:

CREATE DATABASE laravel\_db;

CREATE USER 'laravel\_user'@'localhost' IDENTIFIED BY 'strong\_password';

GRANT ALL PRIVILEGES ON laravel\_db.\* TO 'laravel\_user'@'localhost';

FLUSH PRIVILEGES;

EXIT;

## ✅ 7. Install Composer

php -r "copy('https://getcomposer.org/installer', 'composer-setup.php');"

php composer-setup.php --install-dir=/usr/local/bin --filename=composer

php -r "unlink('composer-setup.php');"

composer -V # Confirm version

## ✅ 8. Install Node.js (using NVM and optional)

curl -o- https://raw.githubusercontent.com/nvm-sh/nvm/v0.39.7/install.sh | bash

source ~/.bashrc || source ~/.profile || source ~/.zshrc

nvm install node

nvm use node

nvm alias default node

node -v && npm -v # Confirm versions

## ✅ 9. Laravel Project Setup

composer install --no-dev --optimize-autoloader

cp .env.example .env

nano .env # Update APP\_NAME, DB credentials, etc.

php artisan key:generate

php artisan migrate --force

php artisan config:cache

npm install

NODE\_OPTIONS="--max-old-space-size=8192" npm run build

## ✅ 10. File Permissions & Linking

chown -R www-data:www-data /var/www/laravel

chmod -R 775 storage bootstrap/cache

php artisan storage:link

## ✅ 11. Configure NGINX

nano /etc/nginx/sites-available/laravel

Paste this config:

server {

listen 80;

server\_name actscc.online www.actscc.online;

root /var/www/laravel/public;

index index.php index.html;

add\_header X-Frame-Options "SAMEORIGIN";

add\_header X-Content-Type-Options "nosniff";

location / {

try\_files $uri $uri/ /index.php?$query\_string;

}

location ~ \.php$ {

include snippets/fastcgi-php.conf;

fastcgi\_pass unix:/run/php/php8.3-fpm.sock;

fastcgi\_param SCRIPT\_FILENAME $document\_root$fastcgi\_script\_name;

include fastcgi\_params;

}

location ~ /\.ht {

deny all;

}

error\_log /var/log/nginx/laravel\_error.log;

access\_log /var/log/nginx/laravel\_access.log;

}

Then:

ln -s /etc/nginx/sites-available/laravel /etc/nginx/sites-enabled/

nginx -t

systemctl restart nginx

systemctl status php8.3-fpm

## ✅ 12. Correct File Permissions (Again)

chown -R www-data:www-data /var/www/laravel

chmod -R 755 /var/www/laravel

sudo chmod -R 775 /var/www/laravel/storage

sudo chown -R www-data:www-data storage

sudo find storage -type d -exec chmod 755 {} \;

sudo find storage -type f -exec chmod 644 {} \;

## ✅ 13. Enable HTTPS (Optional)

apt install certbot python3-certbot-nginx -y

certbot --nginx -d your\_domain.com

## ✅ 14. Configure Git (Optional)

git config --global user.name "Kent Jerone Ramos"

git config --global user.email "your-email@example.com"

## ✅ 15. Setup Laravel Queue Worker with Supervisor

apt install supervisor -y

Create worker config:

sudo nano /etc/supervisor/conf.d/laravel-worker.conf

Paste this:

[program:laravel-worker]

process\_name=%(program\_name)s\_%(process\_num)02d

command=php /var/www/laravel/artisan queue:work --sleep=3 --tries=3 --timeout=90

autostart=true

autorestart=true

user=www-data

numprocs=1

redirect\_stderr=true

stdout\_logfile=/var/www/laravel/storage/logs/worker.log

Then:

sudo supervisorctl reread

sudo supervisorctl update

sudo supervisorctl start laravel-worker:\*

sudo supervisorctl status

## ✅ 16. Setup Queue Retry + Scheduler

**In Laravel Console Kernel:**

Schedule::command('queue:retry all')->everyFiveSeconds();

**Add to crontab:**

crontab -e

Paste:

\* \* \* \* \* cd /var/www/laravel && php artisan schedule:run >> /dev/null 2>&1

To monitor logs:

tail -f storage/logs/laravel.log

## ✅ 17. Increase PHP Limits (Optional for large uploads)

Edit PHP config:

sudo nano /etc/php/8.3/fpm/php.ini

Search (Ctrl + W) and update:

upload\_max\_filesize = 500M

post\_max\_size = 510M

max\_execution\_time = 600

max\_input\_time = 600

memory\_limit = 1024M

Restart PHP:

sudo systemctl restart php8.3-fpm

Let me know if you want this as a downloadable .md or .sh file!