## Laravel Server Setup Instructions (AWS EC2, Ubuntu, Apache)

### 1. Launch EC2 Instance

* Choose **Ubuntu 24.04 LTS**
* Set inbound rules to allow:
  + HTTP (port 80)
  + HTTPS (port 443)
  + SSH (port 22)
* Download the .pem key for SSH access

### 2. SSH into the Server

ssh -i /path/to/your-key.pem ubuntu@<EC2\_PUBLIC\_IP>

### 3. Install Dependencies

#### Update packages:

sudo apt update && sudo apt upgrade -y

#### Install Apache:

sudo apt install apache2 -y

#### Install PHP & Extensions:

sudo apt install php php-mbstring php-xml php-bcmath php-curl php-mysql php-zip unzip curl git -y

#### Install MySQL:

sudo apt install mysql-server -y  
sudo mysql\_secure\_installation

During secure installation, set a root password and follow prompts.

### 4. Create MySQL Database & User

Login to MySQL:

sudo mysql -u root -p

Then:

CREATE DATABASE dart CHARACTER SET utf8mb4 COLLATE utf8mb4\_unicode\_ci;  
CREATE USER 'dartadmin'@'localhost' IDENTIFIED WITH mysql\_native\_password BY 'Adm!nPass1';  
GRANT ALL PRIVILEGES ON dart.\* TO 'dartadmin'@'localhost';  
FLUSH PRIVILEGES;  
EXIT;

### 5. Clone Laravel Project

cd /home/ubuntu  
git clone https://github.com/your-repo/dartsurvivor\_laravel.git  
cd dartsurvivor\_laravel

### 6. Configure Laravel

cp .env.example .env  
nano .env

Update DB section:

DB\_DATABASE=dart  
DB\_USERNAME=dartadmin  
DB\_PASSWORD=Adm!n1Strong!

Generate app key:

composer install  
php artisan key:generate

If permission denied on composer.lock, run:

sudo chown -R $USER:www-data .

### 7. Set Folder Permissions

sudo chown -R www-data:www-data /home/ubuntu/dartsurvivor\_laravel  
sudo chmod -R 775 /home/ubuntu/dartsurvivor\_laravel/storage /home/ubuntu/dartsurvivor\_laravel/bootstrap/cache

### 8. Import Database (if needed)

mysql -u dartadmin -p dart < /home/ubuntu/dartsurvivor\_laravel/database/dart.sql

### 9. Configure Apache for Laravel

Create config:

sudo nano /etc/apache2/sites-available/laravel.conf

Paste this:

<VirtualHost \*:80>  
 ServerName YOUR\_PUBLIC\_IP\_OR\_DOMAIN  
 ServerAdmin ubuntu@localhost  
 DocumentRoot /home/ubuntu/dartsurvivor\_laravel/public  
  
 <Directory /home/ubuntu/dartsurvivor\_laravel/public>  
 Options Indexes FollowSymLinks  
 AllowOverride All  
 Require all granted  
 </Directory>  
  
 ErrorLog ${APACHE\_LOG\_DIR}/laravel\_error.log  
 CustomLog ${APACHE\_LOG\_DIR}/laravel\_access.log combined  
</VirtualHost>

Then:

sudo a2ensite laravel.conf  
sudo a2dissite 000-default.conf  
sudo a2enmod rewrite  
sudo systemctl reload apache2

### 10. Fix Directory Permissions

sudo chmod o+x /home  
sudo chmod o+x /home/ubuntu  
sudo chmod -R o+rx /home/ubuntu/dartsurvivor\_laravel/public

### 11. Set Laravel to Production

php artisan config:cache  
php artisan route:cache  
php artisan view:cache

Ensure in .env:

APP\_ENV=production  
APP\_DEBUG=false

### 12. Access the App

Open in browser:

http://<EC2\_PUBLIC\_IP>/

You should see your Laravel app 🎉