🐳 Laravel + Docker + Domain + SSL Guide (BKPSULTRA, Super Lengkap)

Panduan ini khusus disusun sesuai kasus kamu:

- VPS dengan user: `root@srv1138433`
- Project Laravel: **bimbel**
- Folder project di server: `/var/www/bkpsultra/bimbel`
- Domain utama: **bkpsultra.com**
- Panel domain: **Hostinger**
- Web server host: **Nginx + Docker**

Setiap langkah akan disertai contoh prompt terminal seperti:

```
root@srv1138433:~#
root@srv1138433:/var/www/bkpsultra/bimbel#
```

Supaya kamu selalu tau **harus berada di directory mana** saat menjalankan perintah.

🧩 BAGIAN 1 – DEVELOPMENT LOKAL (TANPA DOCKER)

1.1. Struktur umum yang kita inginkan di lokal

Di laptop (LOCAL), misalnya kamu simpan semua project di:

```
~/
└── Code/
    └── bimbel/     # folder project Laravel
```

1.2. Clone project dari GitHub (LOCAL)

```
# Di laptop, bukan di server
$ mkdir -p ~/Code
$ cd ~/Code
$ git clone https://github.com/hesdin/bimbel.git
$ cd bimbel
```

Prompt kira-kira:

```
user@laptop:~/Code/bimbel$
```

1.3. Setup database lokal

Buat database di MySQL lokal:

```
CREATE DATABASE bimbel_local;
```

1.4. Buat dan atur `.env` lokal

```
user@laptop:~/Code/bimbel$ cp .env.example .env
user@laptop:~/Code/bimbel$ nano .env
```

Sesuaikan:

```
APP_NAME="BKPSULTRA"
APP_ENV=local
APP_DEBUG=true
APP_URL=http://localhost:8000


DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=bimbel_local
DB_USERNAME=root
DB_PASSWORD=
```

1.5. Install dependency & jalankan Laravel

```
user@laptop:~/Code/bimbel$ composer install
user@laptop:~/Code/bimbel$ npm install
user@laptop:~/Code/bimbel$ php artisan key:generate
user@laptop:~/Code/bimbel$ php artisan migrate
# kalau ada seeder:
# user@laptop:~/Code/bimbel$ php artisan db:seed
```

Jalankan:

```
user@laptop:~/Code/bimbel$ php artisan serve
```

Akses: `http://127.0.0.1:8000`

⬛ BAGIAN 2 – STRUKTUR DI SERVER (VPS)

Di VPS, kita akan pakai struktur:

```
/
└── var/
    └── www/
        └── bkpsultra/
            └── bimbel/   # root project Laravel di server
                ├── artisan
                ├── Dockerfile
                ├── docker-compose.yml
                ├── .docker/nginx/default.conf
                └── (folder Laravel lainnya)
```

Prompt server:

```
root@srv1138433:~#
```

⬛ BAGIAN 3 – CLONE PROJECT KE SERVER

3.1. SSH ke server

```
user@laptop:~$ ssh root@IP_SERVER
root@srv1138433:~#
```

3.2. Buat folder utama untuk project

```
root@srv1138433:~# mkdir -p /var/www/bkpsultra
root@srv1138433:~# cd /var/www/bkpsultra
root@srv1138433:/var/www/bkpsultra#
```

3.3. Clone project Laravel ke folder `bimbel`

```
root@srv1138433:/var/www/bkpsultra# git clone https://github.com/hesdin/bimbel.git bimbel
root@srv1138433:/var/www/bkpsultra# cd bimbel
root@srv1138433:/var/www/bkpsultra/bimbel#
```

Cek isi folder:

```
root@srv1138433:/var/www/bkpsultra/bimbel# ls
app/  artisan  bootstrap/  config/  database/  public/  resources/  routes/  vendor/  ...
```

⬛ BAGIAN 4 – MEMBUAT DOCKERFILE (DI SERVER)

4.1. Lokasi pembuatan Dockerfile

HARUS di root project:

```
root@srv1138433:/var/www/bkpsultra/bimbel#
```

4.2. Buat file `Dockerfile`

```
root@srv1138433:/var/www/bkpsultra/bimbel# nano Dockerfile
```

Isi:

```
FROM php:8.2-fpm

# Install system dependencies & PHP extensions
RUN apt-get update && apt-get install -y \\
    git \\
    curl \\
    libpng-dev \\
    libonig-dev \\
    libxml2-dev \\
    libzip-dev \\
    zip unzip \\
    && docker-php-ext-configure zip \\
    && docker-php-ext-install pdo_mysql mbstring exif pcntl bcmath gd zip

# Install Composer
COPY --from=composer:2 /usr/bin/composer /usr/bin/composer

# Working directory inside container
WORKDIR /var/www/html
```

Simpan: `Ctrl+O` → Enter → `Ctrl+X` .

Cek:

```
root@srv1138433:/var/www/bkpsultra/bimbel# ls Dockerfile
Dockerfile
```

⬛ BAGIAN 5 – KONFIGURASI NGINX (DALAM DOCKER)
```

## 5.1. Buat folder `.docker/nginx`

```
root@srv1138433:/var/www/bkpsultra/bimbel# mkdir -p .docker/nginx
root@srv1138433:/var/www/bkpsultra/bimbel# nano .docker/nginx/default.conf
```

Isi:

```
server {
    listen 80;
    index index.php index.html;
    server_name _;

    root /var/www/html/public;

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

    location ~ \\.php$ {
        fastcgi_pass app:9000;
        fastcgi_index index.php;
        include fastcgi_params;
        fastcgi_param SCRIPT_FILENAME $realpath_root$fastcgi_script_name;
    }

    location ~ /\\. {
        deny all;
    }
}
```

Simpan dan keluar.

⬛ BAGIAN 6 – MEMBUAT `docker-compose.yml`

Masih di project root:

```
root@srv1138433:/var/www/bkpsultra/bimbel# nano docker-compose.yml
```

Isi **versi yang pakai port internal 8080** :

```yaml
services:
  app:
    build:
      context: .
      dockerfile: Dockerfile
    container_name: bkpsultra-app
    working_dir: /var/www/html
    volumes:
      - ./:/var/www/html
    depends_on:
      - db

  web:
    image: nginx:stable
    container_name: bkpsultra-nginx
    ports:
      - "127.0.0.1:8080:80"
    volumes:
      - ./:/var/www/html
      - ./.docker/nginx/default.conf:/etc/nginx/conf.d/default.conf
    depends_on:
      - app

  db:
    image: mysql:8.0
    container_name: bkpsultra-mysql
    environment:
      MYSQL_ROOT_PASSWORD: root
      MYSQL_DATABASE: bkpsultra
      MYSQL_USER: bkpsultra
      MYSQL_PASSWORD: bkpsultra
    ports:
      - "3306:3306"
    volumes:
      - db_data:/var/lib/mysql

volumes:
  db_data:
```

Simpan → keluar.

⬛ BAGIAN 7 – SETUP `.env` DI SERVER

Di server:

```
root@srv1138433:/var/www/bkpsultra/bimbel# cp .env.example .env
root@srv1138433:/var/www/bkpsultra/bimbel# nano .env
```

Atur:

```
APP_NAME="BKPSULTRA"
APP_ENV=production
APP_DEBUG=false
APP_URL=https://bkpsultra.com

DB_CONNECTION=mysql
DB_HOST=db
DB_PORT=3306
DB_DATABASE=bkpsultra
DB_USERNAME=bkpsultra
DB_PASSWORD=bkpsultra
```

Simpan.

⬜ BAGIAN 8 – JALANKAN DOCKER UNTUK PERTAMA KALI

Masih di folder yang sama:

```
root@srv1138433:/var/www/bkpsultra/bimbel# docker compose down
root@srv1138433:/var/www/bkpsultra/bimbel# docker compose up -d --build
root@srv1138433:/var/www/bkpsultra/bimbel# docker compose ps
```

Harus muncul:

```
bkpsultra-app      Up
bkpsultra-nginx    Up
bkpsultra-mysql    Up
```

⬜ BAGIAN 9 – INSTALL LARAVEL DI DALAM CONTAINER

Masuk ke container `app` :

```
root@srv1138433:/var/www/bkpsultra/bimbel# docker compose exec app bash
root@<container-id>:/var/www/html#
```

Di dalam container:

```
root@...:/var/www/html# composer install --no-dev --optimize-autoloader
root@...:/var/www/html# php artisan key:generate
root@...:/var/www/html# php artisan migrate --force

root@...:/var/www/html# mkdir -p storage/logs
root@...:/var/www/html# touch storage/logs/laravel.log
root@...:/var/www/html# chown -R www-data:www-data storage bootstrap/cache
root@...:/var/www/html# chmod -R ug+rwx storage bootstrap/cache
```

Keluar:

```
root@...:/var/www/html# exit
root@srv1138433:/var/www/bkpsultra/bimbel#
```

⬜ BAGIAN 10 – TEST APLIKASI DI DALAM SERVER (PORT 8080)

Tes dari **dalam VPS**:

```
root@srv1138433:/var/www/bkpsultra/bimbel# curl http://127.0.0.1:8080
```

Kalau muncul HTML Laravel → container berfungsi ⬜

⬜ BAGIAN 11 – INSTALL NGINX DI HOST (DI LUAR DOCKER)

```
root@srv1138433:~# apt update
root@srv1138433:~# apt install nginx -y
root@srv1138433:~# systemctl status nginx
```

⬛ BAGIAN 12 – KONFIGURASI NGINX HOST UNTUK `bkpsultra.com`

Buat file:

```
root@srv1138433:~# nano /etc/nginx/sites-available/bkpsultra.com
```

Isi:

```
server {
    listen 80;
    listen [::]:80;
    server_name bkpsultra.com www.bkpsultra.com;

    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 $scheme;
    }
}
```

Aktifkan config ini:

```
root@srv1138433:~# ln -s /etc/nginx/sites-available/bkpsultra.com /etc/nginx/sites-enabled/bkpsultra.com
root@srv1138433:~# rm /etc/nginx/sites-enabled/default
root@srv1138433:~# nginx -t
root@srv1138433:~# systemctl reload nginx
```

⬛ BAGIAN 13 – DNS HOSTINGER UNTUK `bkpsultra.com`

Di hPanel Hostinger:

1. Pilih domain `bkpsultra.com`

2. Pastikan **Use Hostinger nameservers** aktif

3. Di **Manage DNS records**, pastikan:

Type	Name	Value
A	@	72.61.208.86
A	www	72.61.208.86

4. Hapus A record `@` lain yang mengarah ke IP lain (misal `84.32.84.32`)

5. Hapus CNAME `www` jika ada.

Tunggu 5–30 menit lalu dari lokal:

```
$ ping bkpsultra.com
$ ping www.bkpsultra.com
```

Harus mengarah ke IP VPS kamu.

⬛ BAGIAN 14 – INSTALL SSL (CERTBOT)

Di server:

```
root@srv1138433:~# apt install certbot python3-certbot-nginx -y
root@srv1138433:~# certbot --nginx -d bkpsultra.com -d www.bkpsultra.com
```

- Masukkan email
- Setuju ToS
- Pilih **redirect HTTP -> HTTPS**

Setelah selesai:

- `https://bkpsultra.com` harus aktif dengan SSL.

⬛ BAGIAN 15 – FIX MIXED CONTENT (HTTPS + VITE)

15.1. Pastikan APP_URL = https

Di server:

```
root@srv1138433:/var/www/bkpsultra/bimbel# nano .env
```

Pastikan:

```
APP_ENV=production
APP_URL=https://bkpsultra.com
```

Masuk container:

```
root@srv1138433:/var/www/bkpsultra/bimbel# docker compose exec app bash
root@...:/var/www/html# php artisan config:clear
root@...:/var/www/html# php artisan cache:clear
root@...:/var/www/html# php artisan view:clear
root@...:/var/www/html# php artisan route:clear
root@...:/var/www/html# php artisan config:cache
root@...:/var/www/html# exit
```

15.2. Force HTTPS di AppServiceProvider

Edit file:

```
root@srv1138433:/var/www/bkpsultra/bimbel# nano app/Providers/AppServiceProvider.php
```

Isi minimal:

```php
<?php

namespace App\Providers;

use Illuminate\\Support\\ServiceProvider;
use Illuminate\\Support\\Facades\\URL;

class AppServiceProvider extends ServiceProvider
{
    public function register(): void
    {
        //
    }

    public function boot(): void
    {
        if (config('app.env') === 'production') {
            URL::forceScheme('https');
        }
    }
}
```

Simpan → clear config lagi via container.

⬚ BAGIAN 16 – MULTIPLE PROJECT DALAM SATU VPS (CONTOH SINGKAT)

Misal:

- Project 1: bkpsultra → `/var/www/bkpsultra/bimbel`, port container 8080
- Project 2: contohapp → `/var/www/contohapp`, port container 8081

16.1. Struktur folder project 2

```
root@srv1138433:~# mkdir -p /var/www/contohapp
root@srv1138433:~# cd /var/www/contohapp
root@srv1138433:/var/www/contohapp# git clone https://github.com/your/second-repo.git .
```

Lalu ulangi:

- buat Dockerfile
- buat `.docker/nginx/default.conf`
- buat `docker-compose.yml` dengan:

```
web:
  ports:
    - "127.0.0.1:8081:80"
```

- setup `.env`
- `docker compose up -d --build`

16.2. Nginx host untuk domain kedua (misal `contoh.com`)

```
root@srv1138433:~# nano /etc/nginx/sites-available/contoh.com
```

Isi:

```
server {
    listen 80;
    server_name contoh.com www.contoh.com;

    location / {
        proxy_pass http://127.0.0.1:8081;
        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;
    }
}
```

Aktifkan:

```
root@srv1138433:~# ln -s /etc/nginx/sites-available/contoh.com /etc/nginx/sites-enabled/contoh.com
root@srv1138433:~# nginx -t
root@srv1138433:~# systemctl reload nginx
```

16.3. SSL untuk domain kedua

```
root@srv1138433:~# certbot --nginx -d contoh.com -d www.contoh.com
```

⬚ BAGIAN 17 – WORKFLOW UPDATE (DEPLOY PERUBAHAN KODE)

17.1. Di lokal (laptop)

```
user@laptop:~/Code/bimbel$ git add .
user@laptop:~/Code/bimbel$ git commit -m "update fitur X"
user@laptop:~/Code/bimbel$ git push origin main
```

17.2. Di server

```
root@srv1138433:~# cd /var/www/bkpsultra/bimbel
root@srv1138433:/var/www/bkpsultra/bimbel# git pull origin main
```

Jika hanya ubah kode PHP/Blade:

```
root@srv1138433:/var/www/bkpsultra/bimbel# docker compose exec app bash
root@...:/var/www/html# php artisan config:clear
root@...:/var/www/html# php artisan cache:clear
root@...:/var/www/html# exit
```

Jika ada perubahan composer:

```
root@srv1138433:/var/www/bkpsultra/bimbel# docker compose exec app bash
root@...:/var/www/html# composer install --no-dev --optimize-autoloader
root@...:/var/www/html# php artisan config:cache
root@...:/var/www/html# exit
```

Jika ada migration baru:

```
root@srv1138433:/var/www/bkpsultra/bimbel# docker compose exec app bash
root@...:/var/www/html# php artisan migrate --force
root@...:/var/www/html# exit
```

Jika Dockerfile / docker-compose.yml berubah:

```
root@srv1138433:/var/www/bkpsultra/bimbel# docker compose down
root@srv1138433:/var/www/bkpsultra/bimbel# docker compose up -d --build
```

Panduan ini bisa kamu simpan sebagai `DEPLOY.md` atau dokumentasi pribadi, dan disesuaikan lagi kalau nanti ada project Laravel kedua / ketiga di server yang sama.