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Panduan Deployment Production

Dokumen ini berisi langkah-langkah untuk deployment aplikasi Koperasi ke environment production.

Pre-Requisites

- PHP 8.2+
- MySQL 8.0+ / MariaDB 10.5+
- Composer
- Node.js & NPM (untuk build assets)
- Web Server (Apache/Nginx)
- SSL Certificate (HTTPS)

Langkah-Langkah Deployment

1. Persiapan Server

```
# Clone repository
git clone [your-repo] /var/www/koperasi

# Masuk ke direktori
cd /var/www/koperasi

# Install dependencies
composer install --no-dev --optimize-autoloader
npm install && npm run build
```

2. Konfigurasi Environment

```
# Copy environment file
cp .env.example .env
```

```
# Generate application key
php artisan key:generate
```

Edit file .env:

```
APP_NAME="Koperasi Karyawan"
APP_ENV=production
APP_DEBUG=false
APP_URL=https://koperasi.yourdomain.com
```

```
DB_CONNECTION=mysql
DB_HOST=127.0.0.1
DB_PORT=3306
DB_DATABASE=koperasi_prod
DB_USERNAME=your_db_user
DB_PASSWORD=your_db_password
```

```
# Mail Configuration
MAIL_MAILER=smtp
MAIL_HOST=smtp.gmail.com
MAIL_PORT=587
MAIL_USERNAME=your_email@gmail.com
MAIL_PASSWORD=your_app_password
MAIL_FROM_ADDRESS=noreply@yourdomain.com
```

3. Setup Database Production

Opsi A: Fresh Install (Recommended)

```
# Jalankan migrasi dan production seeder
php artisan migrate --force
php artisan db:seed --class=ProductionSeeder --force
```

Opsi B: Menggunakan Artisan Command

```
# Reset untuk production (dengan fresh migration)
php artisan koperasi:reset-for-production --fresh --force
```

4. Set Permissions

```
# Linux/Mac
chmod -R 755 storage bootstrap/cache
chown -R www-data:www-data storage bootstrap/cache
```

```
# Windows (Laragon)
# Tidak perlu, Laragon otomatis handle
```

5. Optimize untuk Production

```
# Cache konfigurasi
php artisan config:cache
php artisan route:cache
php artisan view:cache
```

```
# Optimize autoloader
composer dump-autoload --optimize
```

Post-Deployment Checklist

- ☐ Login dengan akun admin default
 - ☐ **GANTI PASSWORD ADMIN** (sangat penting!)
 - ☐ Configure AI Settings (jika menggunakan)
 - ☐ Configure WhatsApp Bot (jika menggunakan)
 - ☐ Update Settings → Nama Koperasi, Logo, dll
 - ☐ Import data anggota via Excel
 - ☐ Test semua fitur utama
-

Default Admin Credentials

Field	Value
Email	admin@koperasi.com
Password	admin123

WAJIB ganti password setelah login pertama!

Perintah Artisan Berguna

Reset untuk Production

```
# Preview data yang akan dihapus
php artisan koperasi:reset-for-production

# Reset tanpa konfirmasi (untuk scripting)
php artisan koperasi:reset-for-production --force

# Reset + fresh migration
php artisan koperasi:reset-for-production --fresh --force

# Reset tapi pertahankan admin yang sudah ada
php artisan koperasi:reset-for-production --keep-admin
```

Maintenance

```
# Mode maintenance ON
php artisan down

# Mode maintenance OFF
php artisan up

# Clear all caches
php artisan optimize:clear
```

Security Recommendations

1. **Ganti Password Admin** - Wajib setelah deployment
 2. **Aktifkan HTTPS** - Jangan jalankan tanpa SSL
 3. **Database Backup** - Setup backup otomatis
 4. **Rate Limiting** - Aktifkan throttling di middleware
 5. **2FA** - Pertimbangkan menambahkan 2-factor auth
-

Troubleshooting

Error: Permission denied

```
chmod -R 777 storage bootstrap/cache # Sementara untuk debug  
# Kembalikan ke 755 setelah fix
```

Error: Class not found

```
composer dump-autoload  
php artisan optimize:clear
```

Error: 500 Internal Server Error

1. Check storage/logs/laravel.log
 2. Pastikan APP_DEBUG=true sementara untuk lihat error
 3. Kembalikan ke APP_DEBUG=false setelah fix
-

Support

Jika mengalami masalah, hubungi developer atau buka issue di repository.