**MOE'S RIDE**

Production Deployment Guide

Vehicle Management System — Yii2

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| **Version** | 1.0.0 |
| **Date** | 23 February 2026 |
| **Framework** | Yii2 (PHP 8.2) + MariaDB 10.4 |
| **Classification** | **CONFIDENTIAL** |

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| **⚠️ IMPORTANT:** Keep this document private. It contains server credentials, database details, and security-sensitive configuration steps. |

# **1. Pre-Deployment Checklist**

Complete all items below BEFORE uploading any files to your production server.

## **1.1 Local Environment**

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| ✅ | All features tested locally (admin login, client portal, car CRUD, photo upload) |
| ✅ | Migration script ran successfully (car\_old → car + car\_image) |
| ✅ | Password hash script ran (all users have bcrypt hashed passwords) |
| ✅ | No temporary scripts exist in web/ folder (create-admin.php, migrate-cars.php, hash-passwords.php) |
| ✅ | YII\_DEBUG is set to false in entry scripts |

## **1.2 Database Backup**

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| ✅ | Full database export taken from phpMyAdmin (Export → Quick → SQL format) |
| ✅ | Backup file saved securely offline |
| ⚠️ | Never overwrite production database without a backup first |

## **1.3 Files to NEVER Upload**

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| ❌ | web/create-admin.php — admin creator script |
| ❌ | web/migrate-cars.php — data migration script |
| ❌ | web/hash-passwords.php — password hash script |
| ❌ | .git/ folder — version control history |
| ❌ | tests/ folder — not needed on production |
| ❌ | Any .env files with local credentials |

# **2. Server Requirements**

## **2.1 PHP Requirements**

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| ✅ | PHP version: 8.1 or higher (8.2 recommended — matches your local XAMPP) |
| ✅ | Extension: pdo\_mysql (database connection) |
| ✅ | Extension: mbstring (string handling) |
| ✅ | Extension: gd (image processing for uploads) |
| ✅ | Extension: fileinfo (file type detection) |
| ✅ | Extension: openssl (security/encryption) |
| ✅ | Extension: intl (internationalization) |

## **2.2 PHP.ini Settings**

Ask your hosting provider or set in php.ini / .htaccess:

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| **Setting** | **Minimum** | **Recommended** |
| upload\_max\_filesize | 10M | **50M** |
| post\_max\_size | 10M | **50M** |
| max\_file\_uploads | 20 | **100** |
| memory\_limit | 128M | **256M** |
| max\_execution\_time | 30 | **120** |

# **3. Upload Files to Server**

## **3.1 Project Folder Structure**

Your project should look like this on the server:

your-domain.com/

├── config/ (configuration files)

├── controllers/ (PHP controllers)

├── models/ (PHP models)

├── views/ (PHP views)

├── vendor/ (Composer packages — LARGE folder)

├── runtime/ (must be writable by server)

└── web/ (PUBLIC folder — point domain here)

├── index.php

├── assets/ (must be writable by server)

├── uploads/

│ └── cars/ (must be writable — photo uploads go here)

└── .htaccess (URL rewriting — IMPORTANT)

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| **📁 IMPORTANT:** Your domain's document root (public\_html) must point to the web/ subfolder, NOT the project root. If you can only point to public\_html, move all contents of the web/ folder there and update paths in index.php. |

## **3.2 Upload Methods**

**Option A — cPanel File Manager (easiest)**

* Log into cPanel → File Manager
* Navigate to public\_html or your domain folder
* Upload a ZIP of your project, then Extract
* Make sure the web/ folder contents are at the document root

**Option B — FTP/SFTP**

* Use FileZilla or WinSCP
* Connect with your hosting FTP credentials
* Upload all project files
* The vendor/ folder is large — be patient, it may take several minutes

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| **💡 TIP:** If vendor/ upload is too slow, upload everything except vendor/, then SSH in and run: composer install --no-dev |

# **4. Configuration Files**

## **4.1 Database Connection — config/db.php**

Update with your production database credentials:

<?php

return [

'class' => 'yii\db\Connection',

'dsn' => 'mysql:host=localhost;dbname=YOUR\_DB\_NAME',

'username' => 'YOUR\_DB\_USERNAME',

'password' => 'YOUR\_DB\_PASSWORD',

'charset' => 'utf8',

];

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| **⚠️ SECURITY:** Never commit db.php with real credentials to Git. Keep a local copy with your production credentials stored securely offline. |

## **4.2 Web Entry Point — web/index.php**

Make sure YII\_DEBUG is false on production:

<?php

// PRODUCTION — keep both false

defined('YII\_DEBUG') or define('YII\_DEBUG', false);

defined('YII\_ENV') or define('YII\_ENV', 'prod');

require \_\_DIR\_\_ . '/../vendor/autoload.php';

require \_\_DIR\_\_ . '/../vendor/yiisoft/yii2/Yii.php';

$config = require \_\_DIR\_\_ . '/../config/web.php';

(new yii\web\Application($config))->run();

## **4.3 Cookie Validation Key — config/web.php**

Make sure this is set to a long random string (do not use the default):

'cookieValidationKey' => 'CHANGE-THIS-TO-LONG-RANDOM-STRING-32-CHARS+',

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| **🔐 SECURITY:** Generate a strong key using: openssl rand -base64 32 (run in terminal/SSH). Never leave this as the default value. |

## **4.4 .htaccess — web/.htaccess**

This file enables clean URLs. Make sure it exists in the web/ folder:

Options +FollowSymlinks

RewriteEngine On

RewriteCond %{REQUEST\_FILENAME} !-f

RewriteCond %{REQUEST\_FILENAME} !-d

RewriteRule . index.php

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| **⚠️ NOTE:** If your hosting uses Nginx instead of Apache, .htaccess does not work. You will need to ask your host for equivalent Nginx rewrite rules. |

# **5. Database Setup**

## **5.1 Create Database on Hosting**

1. Log into cPanel → MySQL Databases
2. Create a new database (e.g., moesride\_prod)
3. Create a database user with a strong password
4. Add the user to the database with ALL PRIVILEGES
5. Note down: database name, username, password — update config/db.php

## **5.2 Import Database**

1. Go to phpMyAdmin on your hosting
2. Select your new database
3. Click Import tab
4. Upload your SQL dump file from local phpMyAdmin export
5. Click Go — wait for completion

## **5.3 Run Indexes (Performance)**

After importing, run this SQL in phpMyAdmin → SQL tab to add performance indexes:

-- Car table indexes

ALTER TABLE `car` ADD INDEX `idx\_client\_id` (`client\_id`);

ALTER TABLE `car` ADD INDEX `idx\_status` (`status`);

ALTER TABLE `car` ADD INDEX `idx\_vin` (`vin`(50));

ALTER TABLE `car` ADD INDEX `idx\_lot` (`lot`(50));

ALTER TABLE `car` ADD INDEX `idx\_container` (`container`(50));

ALTER TABLE `car` ADD INDEX `idx\_year` (`year`(10));

ALTER TABLE `car` ADD INDEX `idx\_info` (`info`(100));

ALTER TABLE `car` ADD FULLTEXT INDEX `ft\_search` (`vin`,`lot`,`info`,`container`,`year`,`status`);

-- Car image indexes

ALTER TABLE `car\_image` ADD INDEX `idx\_car\_id` (`car\_id`);

ALTER TABLE `car\_image` ADD INDEX `idx\_type` (`type`);

-- Client indexes

ALTER TABLE `client` ADD INDEX `idx\_no` (`no`(20));

ALTER TABLE `client` ADD INDEX `idx\_name` (`name`(100));

ALTER TABLE `client` ADD INDEX `idx\_phone` (`phone`(30));

ALTER TABLE `client` ADD FULLTEXT INDEX `ft\_client` (`no`,`name`,`phone`);

-- User indexes

ALTER TABLE `user` ADD INDEX `idx\_username` (`username`(50));

ALTER TABLE `user` ADD INDEX `idx\_email` (`email`(100));

ALTER TABLE `user` ADD INDEX `idx\_position` (`position`(20));

ALTER TABLE `user` ADD INDEX `idx\_client\_id` (`client\_id`);

-- Lookup table indexes

ALTER TABLE `auction` ADD INDEX `idx\_name` (`name`(100));

ALTER TABLE `warehouse` ADD INDEX `idx\_name` (`name`(100));

ALTER TABLE `destination` ADD INDEX `idx\_name` (`name`(100));

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| **💡 TIP:** Run each ALTER TABLE block one at a time. If an error occurs (index already exists), skip that line and continue with the rest. |

# **6. Folder Permissions**

These folders must be writable by the web server. Set permissions to 755 in cPanel File Manager:

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| ✅ | runtime/ — Yii2 cache, logs, sessions |
| ✅ | web/assets/ — Auto-generated CSS/JS assets |
| ✅ | web/uploads/ — Main uploads folder |
| ✅ | web/uploads/cars/ — Car photo uploads (most critical) |

**How to set permissions in cPanel File Manager:**

1. Right-click the folder → Change Permissions
2. Set to 755 (Owner: read/write/execute, Group: read/execute, World: read/execute)
3. Check 'Recurse into subdirectories' for uploads/ folder
4. Click Change Permissions

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| **⚠️ WARNING:** Do NOT set permissions to 777 — this is a security risk. Use 755 for folders and 644 for files. |

# **7. Post-Deployment Testing**

After uploading everything, test these in order:

## **7.1 Basic Access**

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| ✅ | Visit your domain — site loads without error |
| ✅ | Login page appears at yourdomain.com/site/login |
| ✅ | No PHP errors or white screen |
| ✅ | Assets load correctly (CSS styles visible, not plain HTML) |

## **7.2 Admin Functions**

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| ✅ | Login as admin — redirects to admin dashboard |
| ✅ | Car Inventory loads with pagination |
| ✅ | Can add a new car record |
| ✅ | Can upload photos to a car |
| ✅ | Photos display correctly in the car list thumbnail |
| ✅ | Can edit a car record |
| ✅ | Can delete a car record (and its photos) |
| ✅ | Client management loads — can add/edit clients |
| ✅ | System Config pages load (Auctions, Warehouses, Destinations, Users) |
| ✅ | Cannot delete auction/warehouse/destination that has car records |

## **7.3 Client Portal**

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| ✅ | Login as a client — redirects to client dashboard |
| ✅ | Dashboard shows correct stats for that client only |
| ✅ | My Vehicles page loads and shows only that client's cars |
| ✅ | Clicking a car opens the detail view with photos |
| ✅ | Photo lightbox works (click photo to expand) |
| ✅ | Download photos button works |
| ✅ | Profile page shows correct info |
| ✅ | Password change works |
| ✅ | Client cannot access /car/index — gets 403 Forbidden |
| ✅ | Client cannot access /client/index — gets 403 Forbidden |
| ✅ | Client cannot access /admin/index — gets 403 Forbidden |

## **7.4 Security Checks**

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| ✅ | No temporary scripts in web/ folder |
| ✅ | YII\_DEBUG = false (no detailed errors shown to users) |
| ✅ | cookieValidationKey is a strong random string |
| ✅ | Database password is strong |
| ✅ | Visiting /runtime/ gives 403 (should not be publicly accessible) |

# **8. Common Issues & Solutions**

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| **Problem** | **Solution** |
| **White screen / 500 error** | Enable YII\_DEBUG temporarily, check runtime/logs/app.log for the real error message |
| **404 on all pages except home** | .htaccess missing or mod\_rewrite not enabled — contact your host |
| **Photos not uploading** | Check web/uploads/cars/ folder exists and has 755 permissions |
| **Cannot login** | Check config/db.php credentials, ensure user table was imported correctly |
| **CSS/styles not loading** | Delete web/assets/ folder contents — Yii will regenerate them automatically |
| **Class not found errors** | Run: composer dump-autoload in project root via SSH |
| **Database connection error** | Verify db.php credentials match your hosting database exactly |
| **Session errors** | Ensure runtime/ folder is writable (chmod 755) |
| **Photos show broken image** | Check uploads/cars/ path and that image files were uploaded to server |

# **9. Quick Reference — Important URLs**

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| **Page** | **URL** |
| **Login** | yourdomain.com/site/login |
| **Admin Dashboard** | yourdomain.com/admin/index |
| **Car Inventory** | yourdomain.com/car/index |
| **Client Management** | yourdomain.com/client/index |
| **User Management** | yourdomain.com/user/index |
| **Client Dashboard** | yourdomain.com/client/dashboard |
| **Client My Vehicles** | yourdomain.com/client/my-cars |
| **Client Profile** | yourdomain.com/client/profile |
| **Client Support/Contact** | yourdomain.com/site/contact |
| **Auctions Config** | yourdomain.com/auction/index |
| **Warehouses Config** | yourdomain.com/warehouse/index |
| **Destinations Config** | yourdomain.com/destination/index |

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| **✅ DONE!** Once all tests pass, your system is live! Remember to keep regular database backups and never leave debug mode enabled on production. |

**Good luck! 🚗**