Vessel Management System (VMS) Deployment Checklist

Environment: Local (Laragon) -> Production (DigitalOcean)

Purpose: Safely deploy changes from development to live server

BEFORE DEPLOYING TO PRODUCTION

- 1. Test All Changes Locally (Laragon)
- Ensure all updated/new PHP, JS, CSS files function as expected
- Validate form functionality and logic
- Confirm SQL queries work without errors
- Ensure no broken tabs on the dashboard
- Test task and ICR generation flows
- 2. Optional: Commit Changes to Git

git add.

git commit -m "[Describe update or feature]"

DEPLOY TO DIGITALOCEAN

- 3. Backup Before Making Changes
- SSH into server:

ssh root@your_server_ip

- Backup MySQL:

mysqldump -u [user] -p vessel_management_system > backup_\$(date +%F).sql

- Optional: Backup site code:

```
cp -r /var/www/html /var/www/html_backup_$(date +%F)
```

- 4. Upload Files to Server
- Option A: Use FileZilla or SFTP client
- Option B: Use SCP:

scp -r /path/to/local/files root@your_server_ip:/var/www/html/

- Option C: Pull from Git if applicable:

git pull origin main

- 5. Apply SQL Changes (If Needed)
- SSH into MySQL:

mysql -u [user] -p

USE vessel_management_system;

- -- Run ALTER TABLE / CREATE / INSERT as needed
- 6. Clear Cache (if applicable)
- Refresh browser cache or invalidate frontend assets

VERIFY LIVE SITE

- Load live site in browser
- Log in as admin and test new functionality
- Confirm no errors on updated tabs
- Test failed ICR run to check for auto task creation

DOCUMENT & ARCHIVE

- Record what was deployed (files + SQL changes)
- Save a copy of updated files and SQL script

- Optional: Store SQL in a versioned /deploy/sql/ folder

Tools to Remember:

- File uploads: FileZilla / scp

- MySQL dumps: mysqldump

- Code editing (remote): nano, vim, or scp

- Rollback: use backup folder or .sql file

Last Updated: May 2025