

# NetManagement.Online - Full Deployment Guide

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This guide provides a complete deployment procedure for NetManagement.Online including backend API, database, logging, Xero integration, and front-end setup.

## 1. VPS Setup (Azure, Leaseweb, WebTechnicom):

- Install Docker, Python 3.10+, pip, git, Node.js, and Nginx.
- Clone your backend and frontend repositories.

## 2. Backend Deployment:

- Create ``.env`` file with DB and API credentials.
- Dockerize FastAPI backend:
  - \* Build image: `docker build -t netmanagement-backend .`
  - \* Run with Docker Compose (MySQL, FastAPI).
- Ensure MySQL is up with:
  - \* DB: `xero_integration`
  - \* Table: `transaction_logs` (id, action, payload, status, timestamp)

## 3. Xero Integration:

- Configure ``.env`` with:
  - \* `XERO_CLIENT_ID`
  - \* `XERO_CLIENT_SECRET`
  - \* `XERO_ACCESS_TOKEN`
  - \* `XERO_TENANT_ID`

- Available routes:

- \* POST /xero/create-invoice
- \* POST /xero/create-payment
- \* POST /xero/payment-confirmation
- \* GET /xero/invoice-status
- \* GET /xero/payment-status

4. Monitoring & Logging:

- Logging with Python's logging module to file and console.
- Errors captured via Sentry. Set SENTRY\_DSN in ``.env``.
- MySQL logs every transaction.

5. Front-End Setup:

- Use React/Vue/Angular.
- Build with: `npm install` && `npm run build`
- Deploy to `/var/www/your_site/build`
- Configure Nginx:
  - \* Serve static files and proxy backend API.
  - \* Enable SSL (Let's Encrypt recommended).

6. Authentication & Voice Verification:

- JWT auth: `/auth/verify`
- Azure voice: `/auth/voice-verify`

7. CI/CD Suggestions:

- GitHub Actions or Azure DevOps.

- Trigger build/test/deploy on main branch push.

#### 8. Final Steps:

- Verify API endpoints via Swagger (FastAPI).
- Test Xero flows: invoice creation, payments, status tracking.
- Set alerts in Sentry.
- Monitor logs, optimize queries and response times.

You're now live with a production-ready cloud-based financial and identity API platform.