

# Docker Setup for PSScript

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This document explains how to run the PSScript application using Docker, both for development and production environments.

## Prerequisites

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- [Docker](#)
- [Docker Compose](#)
- Git (for cloning the repository)

# Project Structure

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The application consists of several services:

- **Frontend:** React application running on port 3002
- **Backend:** Node.js API service running on port 4000
- **AI Service:** Python service for AI analysis running on port 8000
- **PostgreSQL:** Database with pgvector extension for vector search
- **Redis:** Caching service

# Environment Setup

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1. Clone the repository:

```
bash git clone https://github.com/YOUR_USERNAME/psscript.git cd psscript
```

1. Create a `.env` file based on the example:

```
bash cp .env.example .env
```

1. Edit the `.env` file to set your environment variables, especially:
  2. `OPENAI_API_KEY` : Your OpenAI API key
  3. `JWT_SECRET` : A secure secret for JWT authentication
  4. `DB_PASSWORD` : Database password

## Development Environment

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To run the application in development mode:

```
docker-compose up -d
```

This will start all services with hot-reloading enabled.

# Production Environment

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To run the application in production mode:

```
./docker-deploy.sh
```

This script will:

1. Load environment variables from `.env`
2. Build and start all services in production mode
3. Verify that all services are running correctly

Alternatively, you can run:

```
docker-compose -f docker-compose.prod.yml up -d
```

## Accessing the Application

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- Frontend: <http://localhost:3002>
- Backend API: <http://localhost:4000>
- API Documentation: <http://localhost:4000/api-docs>

# Troubleshooting

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If you encounter any issues:

1. Check the logs:

```
```bash # All services docker-compose logs  
# Specific service docker-compose logs frontend````
```

1. Restart services:

```
bash docker-compose restart
```

1. Rebuild services:

```
bash docker-compose up -d --build
```

## Notes

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- The frontend automatically connects to the backend using the dynamic hostname configuration
- The backend API is available at `http://${hostname}:4000/api`
- Mock mode can be enabled by setting `MOCK_MODE=true` in the `.env` file

## Stopping the Application

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```
# Development  
docker-compose down  
  
# Production  
docker-compose -f docker-compose.prod.yml down
```

To remove volumes (this will delete all data):

```
```bash docker-compose down -v
```

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