

Deployment Report

Dockerized Application with Monitoring Stack

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Setup Steps

- Fork Repository first
- Clone repository

<https://github.com/Swildz/RestaurantProject.git>

- Install Docker & Docker Compose
- Configure environment variables
- Run docker-compose

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

Deployment Flow

GitHub Repository



Docker Build



Docker Compose



Running Services

Docker Configuration

Dockerfile:

- Base image
- Install dependencies
- Copy source
- Expose port

Docker Compose Services

- Application
- Database
- Grafana
- Loki
- Promtail

Environment Variables

- Database credentials
- Application port
- Grafana credentials

Monitoring Stack

- Grafana for visualization
- Loki for log storage
- Promtail for log collection

Logging Flow

- Application → Promtail → Loki → Grafana

Issues Encountered

- Database access denied
- Service startup order
- Logs not appearing
- Port conflicts
- Change name tables kitchen to Kitchen and bill_Items to Bill_Items at code
- And some code error with session_start() because it code put bellow some code and to solve it must be to of code below <?php

Resolutions

- Fixed DB permissions
- Added depends_on
- Corrected Promtail config
- Changed exposed ports

Conclusion

- Deployment successful
- Centralized logging implemented
- Scalable and production-ready