# Release notes – Sprint 4

# Sprint goals

# Create the notes microservice.

# Expand the client and integrate all microservices in the user interface

# Dockerize the microservices and look into Kubernetes orchestration

# Sprint achievements

# Created the “notes” microservice with CRUD operations for adding and managing notes.

# Expanded the client to include some of the notes microservice’s functionality.

# Added Prometheus API metrics monitoring on the Auth microservice featuring a custom rest response time metric.

# Deployed an instance of SonarQube on Azure Cloud

# Dockerized the microservices

# Setup an Azure DevOps pipeline to test, build and run the application through SonarQube for code analysis (including a manual quality check requirement)

# Link to project management tool

[Trello board](https://trello.com/invite/b/Io4YqFH3/ATTId87dc9c83b811493af70936d46f1afcd377171F3/agile)

# Code repositories

[Code Repository](https://git.fhict.nl/I401477/workplace-organization-application.git)

# Sprint Retrospective

# Despite achieving quite a few things this sprint I am still far behind and must keep this tempo up in order to complete my learning outcomes before the end of the semester.

# I need to keep my semester coaches better informed about my progress

# Sprint Planning

Next I will focus on:

* (Backlogged) Kubernetes orchestration
* Azure Cloud Deployment
* Monitoring setup with Grafana visualization
* Some extra testing of the environment