



Case Study 2

Final presentation

Our team

Project members



Our team



Marc R. Kock

Web developer
Web app requests
Azure web app



Farhan Tahmid

Cloud Manager
RFID
Initial DB migration
Azure VM
KPI Monitoring



Nikola Hristov

Team leader
Project navigation &
planning
Network managing &
configuration
Cost manager



Rowen de Vries

Server Manager
Identity and Access
Manager
Subscription manager



Murthid Al Habsi

Documentator
Documentation
Technical Support

Research

Methods, implementation & testing



DOT Framework

- Identifying the issue
- Brainstorm solutions
- Implementations & troubleshooting

We've used a more practical approach to our solutions

System design

Web app and Hardware features

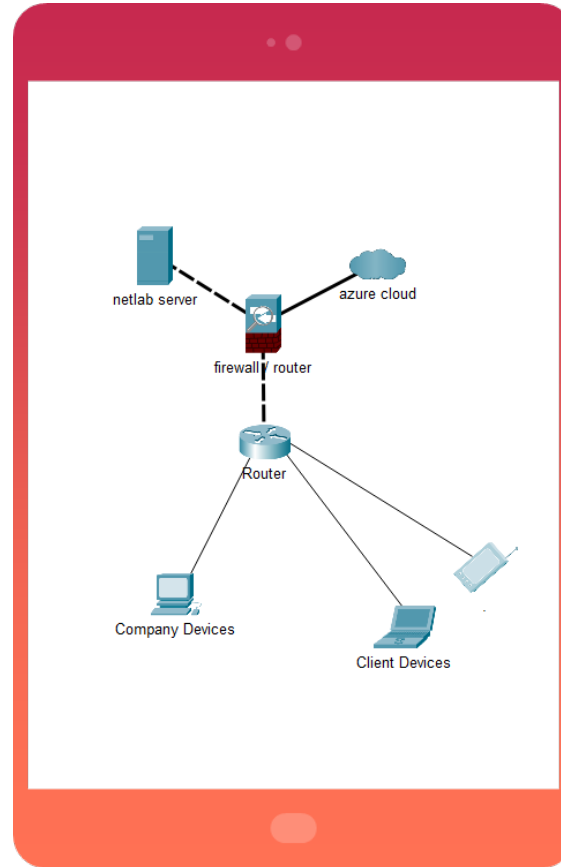


Features: Web Application

- User authentication
- Ticket purchasing/refunding
- Administrative roles

Password hashing using both PBKDF2 & SHA256

Architecture diagram

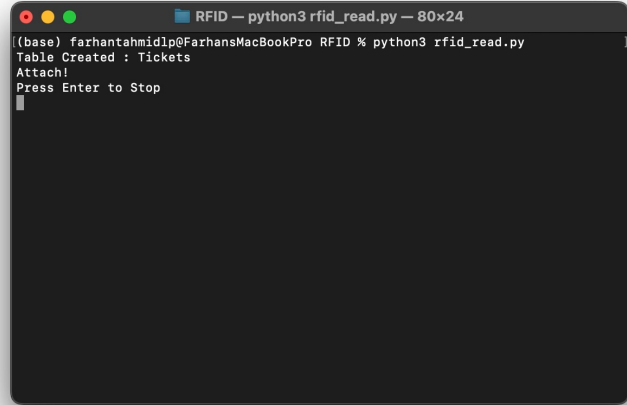


Hardware Feature: RFID Reader & Writer

- RFID event entry tag
- RFID reader & writer
- RFID Database

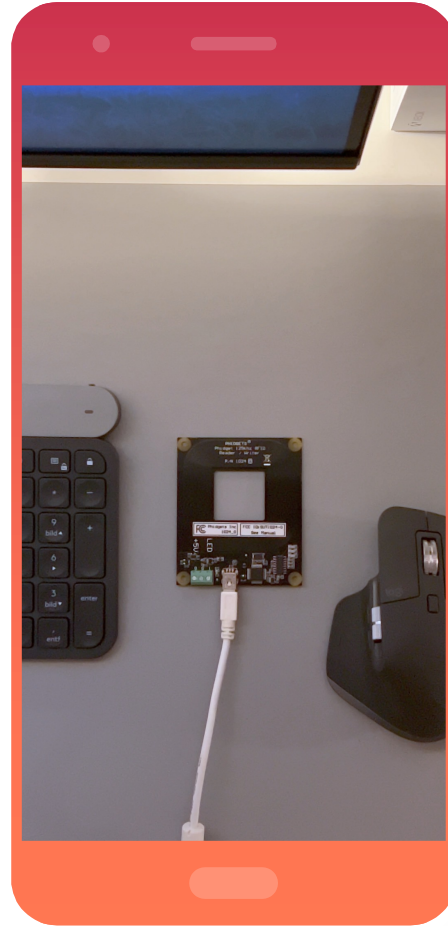
RFID Event ticket verification

RFID Demo



A terminal window titled "RFID — python3 rfid_read.py — 80x24" is displayed. The window shows the following text:

```
[(base) farhantahmidlp@FarhansMacBookPro RFID % python3 rfid_read.py ]  
Table Created : Tickets  
Attach!  
Press Enter to Stop  
█
```



Availability



Conclusion

Ideal things to do

4

Recommendations

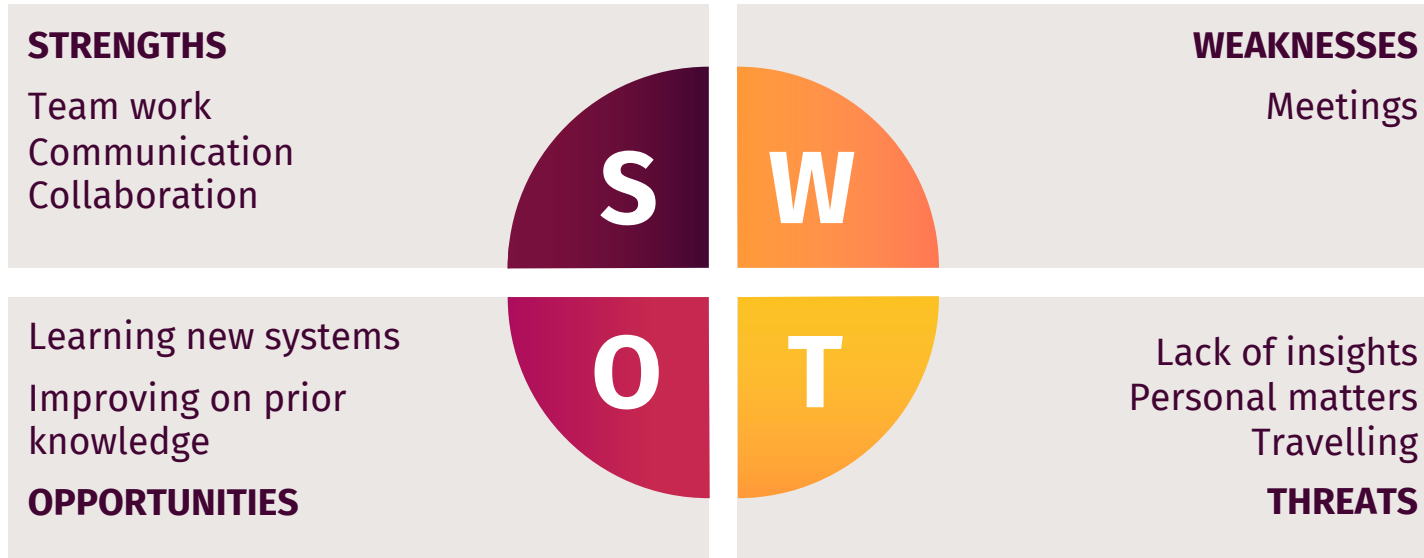
- Pen-testing
- Load Balancing
- Regional Webservers and AD
- More resources for on-prem servers

Reflections

Technical & professional skills



SWOT & Retrospective



Reflections

Project length

Project was too long for given requirements.

Suitability

Project not suitable for more than 3-4 people.

Project subjects

Lack of usability,
Docker was helpful.

Unrelated assignments

Demonstration

System capabilities pre-recorded

6

Microsoft Azure

Search resources, services, and docs (G+)

IS15288@fhict.nl

Home >

Fonteyn24

Web App

Search

Start

Swap

Restart

Delete

Refresh

Get publish profile

Reset publish profile

Share to mobile

Send us your feedback

Overview

Activity log

Access control (IAM)

Tags

Diagnose and solve problems

Microsoft Defender for Cloud

Events (preview)

Deployment

Deployment slots

Deployment Center

Settings

Configuration

Authentication

Application Insights

Identity

Backups

Custom domains

Certificates

Networking

Scale up (App Service plan)

Scale out (App Service plan)

WebJobs

Push

MySQL In App

Stopped

Essentials

Resource group (move) : Fonteyn

Status : Stopped

Location : West Europe

Subscription (move) : FHICT S2 Infra CB - Group 4

Subscription ID : 9dfa1488-1fe5-4a2c-b239-2e1bb846376b

Tags (edit) : Click here to add tags

URL : <https://fonteyn24.azurewebsites.net>

Health Check : [Not Configured](#)

App Service Plan : [ASP-Fonteyn-9650 \(F1: Free\)](#)

FTP/deployment username : No FTP/deployment user set

FTP hostname : <ftp://waws-prod-am2-731.ft.azurewebsites.windows.net/site/wwwroot>

FTPS hostname : <ftps://waws-prod-am2-731.ft.azurewebsites.windows.net/site/wwwroot>

JSON View

Diagnose and solve problems

Application Insights

Http 5xx

Data In

Data Out

Http Server Errors (Sum)

Data In (Sum)

Data Out (Sum)

Fonteyn24

Fonteyn24

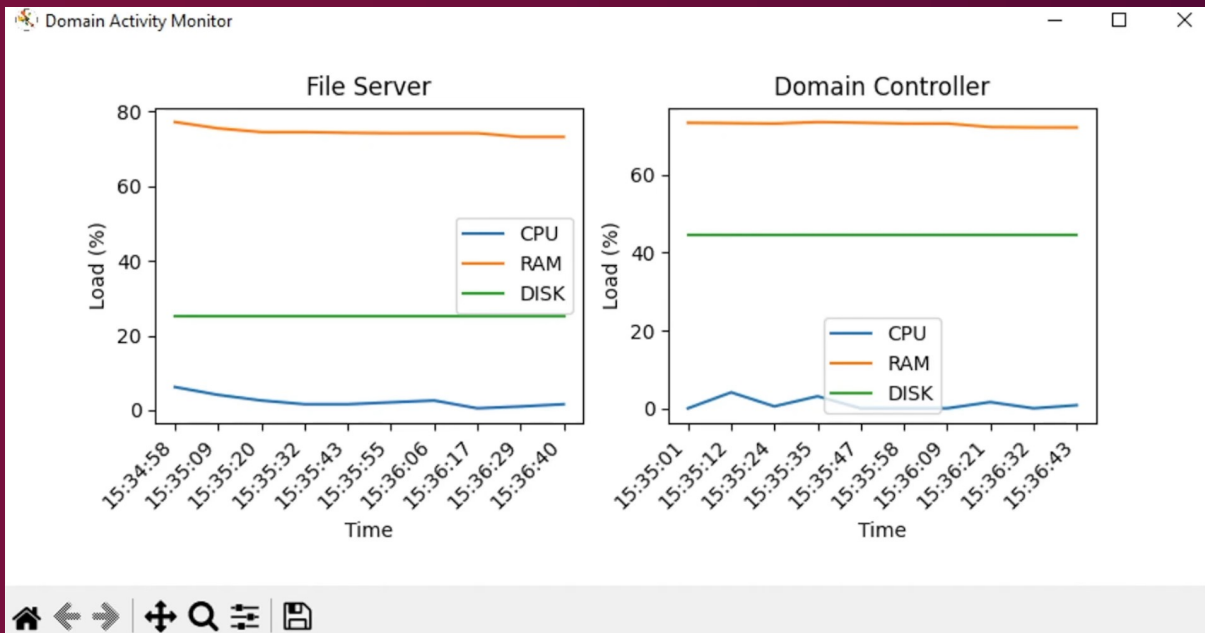
Fonteyn24

Search

ENG US

8:37 PM

6/12/2023



Thanks!

Any questions?